ANDHRA PRADESH PUBLIC SERVICE COMMISSION: VIJAYAWADA

NOTIFICATION NO. *22/2018, Dt. 28/12/2018*

JUNIOR LECTURER IN A.P. INTERMEDIATE EDUCATION

(GENERAL RECRUITMENT)

PARA – 1:

1.1. Applications are invited online for recruitment to the post of Junior Lecturer In A.P. Intermediate Education for a total of 37 CF and 200 fresh vacancies in the scale of pay of Rs.37,100 - 91,450 from candidates within the age group of 18 - 42 years as on 01.07.2018.

1.2. The proforma Application will be available on Commission's Website (*https://psc.ap.gov.in*) *from* ***18/01/2019*** *to* ***08/02/2019*** *(Note:* ***07/02/2019*** is the last date for payment of fee upto 11:59 mid night).

1.3. Before applying for the post, an applicant shall register his/her bio-data particulars through One Time Profile Registration *(OTPR)* on the Commission's Website viz., *https://psc.ap.gov.in.* Once applicant registers his/her particulars, a user ID is generated and sent to his/her registered mobile number and email ID. Applicants need to apply for the post using the OTPR user ID through Commission's website.

1.4. The Commission conducts Screening Test in offline mode in case applicants exceed 25,000 in number and Main Examination in online mode for candidates selected in screening test.

1.5. If the screening test is to be held, the date of screening test will be communicated through Commission's Website.

1.6. The main examination in online mode for candidates selected in screening test will be held through computer based test **in the month of July 2019.** There would be objective type questions which are to be answered on computer system. Instructions regarding computer based recruitment test are attached as Annexure - III. In case any paper of the Examination is held in different languages, the candidate has to choose the medium in which he/she wants to write the examination and the paper will be valued with reference to that medium only.

1.7. A general Mock Test facility is available to the applicants to acquaint themselves with the computer based recruitment test. Applicant can visit the website and practice the answering pattern under MOCK TEST option available on main page of *website* *https://psc.ap.gov.in*.

1.8. The applicant is required to visit the Commission's website regularly to keep himself / herself updated until completion of the recruitment process. The Commission's website information is final for all correspondence. No individual correspondence by any means will be entertained under any circumstances.

1.9. HALL TICKETS can be downloaded whenever the Commission uploads them to its website. Intimation would be given through the website regarding downloading of Hall Tickets.

1.10. All desirous and eligible candidates shall apply online after satisfying themselves that they are eligible as per the terms and conditions of this recruitment notification. Any application sent through any mode other than the prescribed online mode will not be entertained under any circumstances. Submission of application form by the candidate is authentication that he / she has read the notification and shall abide by the terms and conditions laid down there under.

1.11. The details of vacancies are as follows:-

I. CARRIED FORWARD VACANCIES

Post Code No.	Subject	Name of the Zone				Total
		I	II	III	IV	
01	English	01	-	-	-	01
02	Telugu	01	01	-	-	02
03	Hindi	-	01	-	-	01
04	Urdu	-	-	-	01	01
05	Sanskrit	-	-	-	-	-
06	Oriya	02	-	-	-	02
07	Mathematics	-	-	-	-	-
08	Physics	-	02	-	01	03
09	Chemistry	02	01	-	02	05
10	Botany	-	01	-	02	03

11	Zoology	01	-	-	03	04
12	Commerce	01	01	-	-	02
13	Economics	01	03	02	03	09
14	Civics	01	-	01	-	02
15	History	01	-	-	01	02
Total CF vacancies: 37						

Note: As per G.O.Ms.No.277, GA (SC & ST CELL .B) Dept., dated: 22.03.1976, G.O.Ms.No.23 Backward Class (Welfare) Dept., dated: 18.03.1996 and G.O.MS.No.81, G.A.(Ser.A) Department, dt. 22/02/1997 the Carry Forward Vacancies to be filled first by a relevant community candidate in succeeding recruitment.

II. FRESH VACANCIES

Post Code No.	Subject	Name of the Zone				Total
		I	II	III	IV	
01	English	05	04	03	06	18
02	Telugu	04	04	03	05	16
03	Hindi	04	04	03	05	16
04	Urdu	-	01	01	01	03
05	Sanskrit	01	01	01	-	03
06	Oriya	-	-	-	-	-
07	Mathematics	04	04	03	05	16
08	Physics	04	04	03	05	16
09	Chemistry	04	04	03	05	16
10	Botany	04	04	03	05	16
11	Zoology	04	04	03	05	16
12	Commerce	04	04	03	05	16
13	Economics	04	04	03	05	16
14	Civics	04	04	03	05	16
15	History	04	04	03	05	16
	Total Fresh vacancies: 200					

Note: The details of vacancies viz., Community, Zone and Gender wise (General / Women) may be seen at Annexure-I

PARA-2: ELIGIBILITY:

i. He / She is of sound health, active habits and free from any bodily defect or infirmity rendering him unfit for such service:,
ii. His / Her character and antecedents are such as to qualify him for such service:,
iii. He /She possesses the academic and other qualifications prescribed for the post: and
iv. He/ She is a citizen of India:
Provided that no candidate other than a citizen of India may be appointed except with the previous sanction of the State Government and except in accordance with such conditions and restrictions as they may be laid down. Such sanction shall be not be accorded unless the State Government are satisfied that sufficient number of citizens of India, who are qualified and suitable are not available.

PARA-3: EDUCATIONAL QUALIFICATIONS:

A candidate should possess the academic qualifications and experience including practical experience prescribed, if any, for the post on the date of the notification for direct recruitment issued by the concerned recruiting agency.

P.C. No.	Subject	Educational Qualifications
01.	English	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.

02.	Telugu	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
03.	Hindi	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
04.	Urdu	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
05.	Sanskrit	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
06.	Oriya	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
07.	Mathematics	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
08.	Physics	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
09.	Chemistry	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
10.	Botany	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.

11.	Zoology	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
12.	Commerce	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
13.	Economics	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
14.	Civics	Must possess a Second Class Post Graduate Degree in Politics or Political Science or Public Administration of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.
15.	History	Must possess a Second Class Post Graduate Degree (M.A., or M.Sc., or M.com,. OR B.A. (Hons) or B.Sc (Hons) or B.com (Hons) or any other equivalent Post Graduate Degree in the relevant subject/language of any University in India Established or incorporated by or under a Central Act, State Act, or a Provincial Act or an Institution recognized by the University Grants Commission or an equivalent qualification with a minimum of 50% marks in Post Graduate Degree Examination.

Note: Please see Annexure – V for subject equivalency particulars.

PARA- 4 RESERVATIONS:

4.1. There will be reservations in direct recruitment in respect of Scheduled Tribes, Scheduled Castes, Backward Classes, Physically Challenged, Women and Meritorious Sports Person as per Rule 22 and 22 (A) of A.P. State and Subordinate Service Rules.

4.2. In the case of candidates who claim the benefit of reservation or relaxation from upper age limit on the basis of Caste/Tribe or Community the basic document of proof of Community will be the Certificate issued by the Revenue Authorities not below the rank of Tahsildar in the case of SC/ST and Non Creamy Layer Certificate issued by the Revenue Authorities in the case of Backward Classes. The list of Caste/Tribe/Community is as incorporated in Schedule-I of above Rules. The list is also appended at Annexure – IV. The candidates have to produce proof of the community claimed in their application at all stages of selection along with the certificates relating to Educational Qualifications and local status certificates etc.,. Subsequent claim of change of community will not be entertained.

4.3. The meritorious sportsman means a sportsman who has represented the State or the Country in a national or international competition or Universities in the Inter-University tournaments conducted by the Inter-University Boards or the State School team in the national sports/games for schools conducted by the All India School Games Federation in any of the games, sports, mentioned below; and any other games/sports as may be specified by the Government from time to time, in terms of Rule 2 (19) of AP State and Subordinate Service Rules.

4.4. The person with disability means a person suffering from not less than forty percent of any disability as certified by a medical authority except hearing Impairment. Hearing Impairment means loss of sixty decibels or more in the better ear in the conversational range of frequencies which corresponds to 85 dBs Hearing threshold on the audiogram in the better ear i.e., 85 dB hearing level in audiogram – 25 dB upper limit of normal hearing = 60 dB hearing loss as per provision under "person with Disabilities Act, 1995".

4.5. Caste & Community: Community Certificate issued by the competent authority in terms of G.O. Ms No. 58, SW (J) Dept., dt.12/5/97 should be submitted at appropriate time. As per A.P. State and Subordinate Service Rules, Rule -2(28) Explanation: No person who professes a religion different from Hinduism shall be deemed a member of Schedule Caste. BCs, SCs & STs belonging to other States are not entitled for reservation.

4.6. If eligible disabled candidates of a particular category are not available, to fill up the carry forward vacancy, the same shall be filled-up by the method of interchanging as per G.O. Ms. No.23, department for Women, Children, Disabled and Senior Citizen (DW)Dept., Dated: 26.05.2011 and G.O.Ms.No.99, General Admn (Services -D) Dept., dated: 04.03.2013. Hence all the disabled categories are allowed to apply.

4.7. There shall be Reservation to Women horizontally to an extent of 33 1/3% as per G.O. Ms. No. 63, GA (Ser-D) Dept., dated:17.04.2018.

4.8. The reservation to meritorious sports persons will apply as per G.O.Ms.No.13, GA (Ser-D) Dept., dated: 23.01.2018, G.O.Ms.No.74, youth, advancement, Tourism and Culture (Sports) Dept., dated:09.08.2012 and G.O.Ms.No.473, youth, advancement, Tourism and Culture (Sports) Dept., dated: 03.12.2018.

4.9. Reservation to BC-E group will be subject to the adjudication of the litigation before the Hon'ble Courts including final orders in Civil Appeal No: 2628-2637 of 2010 in SLP(c). No. 7388-7397 of 2010, dated. 25/03/2010 and orders from the Government.

4.10. The candidates claiming to be belonging to non-creamy layer of Backward Class have to obtain a Certificate in terms of G.O. Ms. No. 3, Backward Classes Welfare (C-2) Department, Dated 04.04.2006 read with G.O. Ms. No. 26 Backward Classes Welfare(C) Department, Dated 09.12.2013 regarding their exclusion from the Creamy Layer from the competent authority (Tahasildar) and produce the same at appropriate time of verification. In case of failure to produce the same on the day of verification, the Candidature will be considered against open competition even if he / she is otherwise eligible in all aspects.

PARA - 5: RESERVATION TO LOCAL CANDIDATES:

5.1. The specification of a post is determined by the concerned Department with reference to both vertical and horizontal reservations as well as local reservation. The reservations are specified through the indent by the concerned department and the general criteria with regard to reservations are given below.

5.2. Reservation to the Local candidates is applicable as provided in Article 371-D as per G.O.Ms.No.674, G.A (SPF- A) Department, dated.20.10.1975 and rules as amended from time to time and as in force on the date of notification. The candidates claiming reservation as Local candidates should obtain the required Study Certificate(s) (from IV Class to X Class or SSC) OR Residence Certificate in the proforma prescribed for those candidates who have not studied in any Educational Institutions as the case may be. The relevant certificates with authorized signature shall be produced as and when required.

PARA -6 DEFINITION OF LOCAL CANDIDATE:

6.1. A local candidate has been defined in G.O.Ms.No.674, General Administration (SPF-A) Department, dated:20.10.1975 "LOCAL CANDIDATE" as follows:

"Local Candidate:- (1) A candidate for direct recruitment to any post shall be regarded as a local candidate in relation to a local area.

(a) in cases where a minimum educational qualification has been prescribed for recruitment to the post.

(i) "if he has studied in an educational institution or educational institutions in such local area for a period of not less than four consecutive academic years ending with the academic year in which he appeared or, as the case may be, first appeared for the relevant qualifying examination; or

(ii) where during the whole or any part of the four consecutive academic years ending with the academic year in which he appeared or as the case may be, first appeared for the relevant qualifying examination he has not studied in any educational institution, if he has resided in that local area for a period of not less than four years immediately preceding the date of commencement of the qualifying examination in which he appeared or as the case may be, first appeared.

(b) In cases where no minimum educational qualification has been prescribed for recruitment to the post, if he has resided in that local area for a period of not less than four years immediately proceeding the date on which the post is notified for recruitment.

Explanations:- For the purpose of the paragraph.

(i) Educational institution means a University or any educational institution recognized by the State Government, a University or other competent authority;

(ii) Relevant qualifying examination in relation to a post means;

(a) The examination, a pass in which is the minimum educational qualification prescribed for the post;

(b) The Matriculation examination or an examination declared by the State Government to be equivalent to the Matriculation examination;

whichever is lower; and

(iii) In reckoning the consecutive academic years during which a candidate has studied, any period of interruption of his study by reason of his failure to pass any examination shall be disregarded.

(iv) the question whether any candidate for direct recruitment to any post has resided in any local area shall be determined with reference to the places where the candidate actually resided and not with reference to the residence of his parents or other guardian (Vide G.O.Ms.No.168, G.A. (SPF.A) Department, dated.10-3-77).

(2) A candidate for direct recruitment to any post who is not regarded as a local candidate under sub paragraph (1) in relation to any local area shall.

(a) in cases where a minimum educational qualification has been prescribed for recruitment to the post.

(i) if he has studied in educational institutions in the State for a period of not less than seven consecutive academic years ending with academic year in which he appeared or as the case may be, first appeared for the relevant qualifying examination, be regarded as a local candidate in relation to

(1) Such local area where he has studied for the maximum period out of the said period of seven years; or

(2) where the periods of his study in two or more local areas are equal, such local areas where he has studied last in such equal periods;

(ii) if during the whole or any part of the seven consecutive academic years ending with the academic years in which he appeared or as the case may be first appeared for the relevant qualifying examination, he has not studied in the educational institutions in any local area, but has resided in the State during the whole of the said period of seven years, be regarded as a local candidate in relation to

(1) such local area where he has resided for a maximum period out of the said period of seven years: or

(2) where the periods of his residence in two or more local areas are equal, such local areas where he has resided last in such equal periods;

(b) In cases where no minimum educational qualification has been prescribed for recruitment to the post, if he has resided in the State for a period of not less than seven years immediately preceding the date on which the post is notified for recruitment, be regarded as a local candidate in relation to

(i) Such local area where he has resided for the maximum period out of the said period of seven years; or

(ii) Where the periods of his residence is two or more local areas are equal such local area where he has resided last in such equal periods " .

(G.O.Ms.No.168, dated 10-3-1977)

6.2. Single certificate, whether of study or residence as stipulated in G.O.Ms.No.674, General Administration (SPF-A) Dept., dated:20.10.1975 would suffice for enabling the candidate to apply as a "LOCAL CANDIDATE".

6.3. Residence certificate will not be accepted, if a candidate has studied in any Educational Institution upto S.S.C. or equivalent examination. Such candidates have to produce study certificates invariably. The candidates, who acquired degree from open Universities directly without studying in any Educational Institution, only may submit residence certificate. Here Educational Institutions mean a recognized Institution by the Government / University/Competent authority.

6.4. Candidates are advised to refer provisions of the PRESIDENTIAL ORDER 1975 in this regard.

6.5. Candidates who migrate from Telangana to Andhra Pradesh between 2nd June, 2014 and 1st June, 2019 (in this case till date of notification) as per terms laid down in circular memo no.4136/SPF & MC/2015-5, Dated.20.11.2017 of Government of Andhra Pradesh shall obtain the Local Status Certificate from competent authority and produce at the time of verification.

6.6. The composition of Districts in each zone is as hereunder:

Zone-I: Srikakulam, Vizianagaram and Visakhapatnam. (SKM, VZM,VSP)
Zone-II: East Godavari, West Godavari and Krishna. (EG, WG, KST)
Zone-III: Guntur, Prakasam and Nellore. (GNT, PKM, NLR)
Zone-IV: Chittoor, Kadapa, Anantapur and Kurnool. (CTR, CDP, ATP, KNL)

PARA- 7 AGE:

7.1. No person shall be eligible for direct recruitment if he/she is less than 18 years of age and if he / she is more than 42 years of age as on 01/07/2018 as per G.O.Ms.No.132,GA (Ser-A) Dept., dated:15.10.2018. Candidates should not be born earlier than 2nd July 1976 and not later than 1st July 2000.

7.2. *Age Relaxation* is applicable to the categories as detailed below:

S. No.	Category of candidates	Relaxation of age permissible
1.	SC/ST and BCs	5 Years
2.	Physically Handicapped persons	10 Years
3.	Ex-Service men	Shall be allowed to deduct from his age a period of 3 years in addition to the length of service rendered by him in the armed forces / NCC.
4.	N.C.C. (who have worked as Instructor in N.C.C.)	
5.	A.P. State Government Employees (Employees of APSEB, APSRTC, Corporations, Municipalities etc. are not eligible).	5 Years based on the length of regular service.
6.	Retrenched temporary employees in the State Census Department with a minimum service of 6 months.	3 Years

EXPLANATION:
Provided that the persons referred to at Sl.Nos.3 & 4 above shall, after making the deductions referred to in sub Rule 12 (c) (i) & (ii) of A.P. State and Subordinate Service Rules not exceed the Maximum age limit prescribed for the post.
The age relaxation for Ex-Servicemen is applicable for those who have been released from Armed Forces other than by way of dismissal or discharge on account of misconduct or inefficiency.

PARA - 8 HOW TO APPLY:

STEP-I: Candidates applying for the first time for any notification has to first fill the OTPR application carefully to obtain OTPR ID. While filling the OTPR, the candidate has to ensure that the particulars are filled correctly. The Commission bears no responsibility for the mistakes, if any, made by the candidates. If candidates choose to modify they may do so by clicking the modify OTPR make the modification, save them and proceed to STEP-II (If candidates have already registered and have the OTPR ID, number then he/she can proceed to STEP-II.)

STEP-II: The applicant has to Login in the Commission's website with the user name (OTPR ID) and the Password set by Candidate. After Login, the Applicant has to click on the "Online Application Submission" present in the bottom right corner of the Commission's website.

PAYMENT PROCESS: The applicant now has to click on the payment link against the notification number that he wants to apply. The basic details required for calculation of the fee and age relaxation will be prepopulated from the OTPR data. The applicant has to verify all the details that are displayed. Once the Payment form is submitted, the respective details (used for calculation of fee and age relaxation) will not be altered in any stage of application processing. Hence if any details are to be changed, applicant should use the Modify OTPR link, modify the details, save it and again click on application payment link.

STEP-III: After checking all the data and ensuring that the data is correct the applicant has to fill application specific data such as Local/Non Local status, White card details etc., which are also used to calculate the fee. Once all the data is filled appropriately, the applicant has to submit the payment form. On successful submission, the payment reference ID is generated and is displayed on the screen. By clicking "OK" the Applicant is shown the various payment options where he/she can select any one among them and complete the payment process as given on the screen.

STEP-IV: Once the payment is successful, payment reference ID is generated. Candidates can note the payment reference ID for future correspondence. Thereafter the applicant is directed to the application form. Applicant should provide the payment reference Id generated along with the other details required for filing the application form (other fields like OTPR ID and fees relaxations details will be prepopulated from the data submitted in the payment form for respective notification). The applicant should check the data displayed thoroughly and should fill the application specific fields like qualification details, examination centre etc., carefully and submit the application form. Once the application is submitted successfully then application receipt is generated. The applicant is requested to print and save the application receipt for future reference/correspondence.

NOTE: Applicant shall note that the data displayed from OTPR at the time of submitting the application will be considered for the purpose of this notification only. Any changes made by the applicant to OTPR data at a later date shall not be considered for the notification on hand.

STEP-V: In any case if the payment process is not submitted successfully, then the applicant should start the fresh payment process as mentioned in STEP-II.

STEP-VI: Once the application is submitted successfully, correction in application form will be enabled. The corrections can be made in the application form itself. Fields which affects the Name, fee and age relaxations are not enabled for corrections.

NOTE:

A. The Commission is not responsible, for any omissions by the applicant in bio-data particulars while submitting the application form online. The applicants are therefore, advised to strictly follow the instructions given in the user guide before submitting the application.

B. All the candidates are requested to submit their application with correct data. It is noticed that some of the candidates are requesting for change in the data, after submission of the application. It is informed that such requests shall be allowed on payment of Rs.100/- (Rupees hundred only) for each correction. However changes are not allowed for name, fee and age relaxation. No manual application for corrections shall be entertained. Corrections in the application will be enabled after the last date of the submission of application and will be allowed upto 7 days only from the last date of applications.

C. The particulars furnished by the applicant in the application form will be taken as final. Candidates should, therefore, be very careful in uploading / submitting the application Form online.

D. Incomplete/incorrect application form will be summarily rejected. The information if any furnished by the candidate subsequently will not be entertained by the Commission under any circumstances. Applicants should be careful in filling-up the application form and submission. If any lapse is detected during the scrutiny, the candidature will be rejected even though he/she comes to the final stage of recruitment process or even at a later stage and also liable for punishment as per Para 16.1 of this notification.

E. Before uploading/submission application form, the candidates should carefully ensure his/her eligibility for this examination. No relevant column of the application form should be left blank; otherwise application form will not be accepted.

PARA - 9: (a) FEE:

9.1. Applicant must pay Rs. 250/- (Rupees two hundred and fifty only) towards application processing fee and Rs 120/- (Rupees one hundred twenty only) towards examination fee.

9.2. However, the following categories of candidates are exempted from payment of examination fee Rs.120/- only.

i) SC, ST, BC, PH & Ex-Service Men.

ii) Families having Household Supply White Card issued by Civil Supplies Department, A.P. Government. (Residents of Andhra Pradesh)

iii) Un-employed youth *as per G.O.Ms.No.439, G.A (Ser- A) Dept., dated: 18/10/1996* should submit declaration at an appropriate time to the Commission.

iv) Applicants belonging to the categories mentioned above (except Physically Handicapped Persons & Ex-Service Men) hailing from other States are not entitled for exemption from payment of fee and not entitled for claiming any kind of reservation.

v) Candidates belonging to other States shall pay the prescribed fee of Rs.120/- (Rupees one hundred and twenty only), along with processing fee of Rs. 250/- (Rupees two hundred and fifty only) through different channels as indicated at Para-8. Otherwise such applications will not be considered and no correspondence on this will be entertained.

9.3. **b) MODE OF PAYMENT OF FEE:**

i) The fee mentioned in the above paragraph is to be paid online using payment gateway using net banking/ credit card / debit Ccard**.** The list of banks providing service for the purpose of online remittance of fee will be available on the Website.

ii) The fee once remitted shall not be refunded or adjusted under any circumstances. Failure to pay the examination fee and application fee (in non-exempt case) will entail total rejection of application.

iii) IPOs / Demand Drafts are not accepted.

iv) In case of corrections Rs.100/- per correction will be charged. However changes are not allowed for name, fee and age relaxation.

PARA-10: SCHEME OF EXAMINATION:-

The Scheme & Syllabus for the examination has been shown in Annexure-II.

PARA - 11: CENTRES FOR THE WRITTEN EXAMINATIONS (CBRT):

The applicant may choose the Test centre with three preferences. However the Commission reserves the right to allot the applicant to any centre of examination depending on the availability of the resources like centres / systems.

PARA – 12 RESOLUTION OF DISPUTES RELATED TO QUESTION PAPER, ANSWER KEY AND OTHER MATTERS

12.1. The Commission would publish the key on its website after conduct of the examination. Any objections with regard to the key and any other matter shall be filed within one week after publication of the key in the prescribed proforma available in the website.

12.2. The objections received in the prescribed proforma and within due date will be referred to expert Committee for opinion and to take appropriate decision thereon by the Commission. As per decision of the Commission a revised key will be hosted and further objections only in respect of keys that are revised would be called for a period of three working days from the date of publication of revised key. No further objections on original key will be entertained at this stage. The matter will again be referred to experts, taking into consideration the opinion of expert Committee and the final key would be hosted on website based on the decision of the Commission.

12.3. The objections if any would be examined and the decision of the Commission in this regard shall be final. Any objection filed after expiry of specified time from the date of publication of key / revised key would not be entertained.

PARA -13 NOTE ON IMPORTANT LEGAL PROVISIONS GOVERNING THE RECRUITMENT PROCESS:

13.1. Vacancies: The recruitment will be made to the vacancies notified only. There shall be no waiting list as per G.O. Ms. No. 81, General Administration (Ser. A) Department, Dated 22/02/1997, G.O.Ms.No.544, General Administration (Ser. A) Department, Dated:04.12.1998 and Rule 6 of APPSC Rules of procedure. In any case, no cognisance will be taken by Commission of any vacancies arising or reported after the completion of the selection and recruitment process or the last date as decided by the Commission as far as this Notification is concerned, and these will be further dealt with as per G.O. & Rule cited above.

13.2. The recruitment will be processed as per this notification, as per rules in G.O.Ms. No. 302, Education (I.E.I) Department, Dt. 13/12/1993, Instructions issued by the Government and also as decided by the Commission from time to time.

13.3. Rules: The various conditions and criteria prescribed herein are governed by the A.P. State and Subordinate Service Rules, 1996 read with the relevant Special Rules applicable to any particular service in the departments. Any guidelines or clarification is based on the said Rules, and, in case of any necessity, any matter will be processed as per the relevant General and Special Rules as in force.

13.4. The Commission is empowered under the provisions of Article 315 and 320 of the Constitution of India read with relevant laws, rules, regulations and executive instructions and all other enabling legal provisions in this regard to conduct examination for appointment to the posts notified herein, duly following the principle of order of merit as

per Rule 3(vi) of the APPSC Rules of Procedure read with relevant statutory provisions and ensuring that the whole recruitment and selection process is carried out with utmost regard to secrecy and confidentiality so as to ensure that the principle of merit is scrupulously followed.

13.5. Zonal/Local: In terms of Para 4 of the G.O., A.P. Public Employment (Organization of Local Cadres and Regulation of Direct Recruitment) Order, 1975 (G.O.Ms.No.674, G.A. (SPF-A) Dept., dated: 20/10/1975) read with G.O.Ms.No.124, General Administration (SPF-A) Department, dated: 07/03/2002, "The provisional list shall be divided into two parts. The first part shall comprise 30% of the posts consisting of combined merit lists of locals as well as non-locals and the remaining second part shall comprise the balance 70% of the posts consisting of locals only and the posts shall be filled duly following the rule of reservation".

13.6. Scheme is prescribed as per G.O Ms. No.141, Finance (HR-I Plg, & Policy) Dept., dated:01.08.2016.

13.7. The persons already in Government Service/ Autonomous bodies/ Government aided institutions etc., whether in permanent or temporary capacity or as work charged employees are however required to inform, in writing, to their Head of Office/ Department that they have applied for this recruitment.

13.8. A candidate shall be disqualified for appointment, if he himself or through relations or friends or any others has canvassed or endeavored to enlist for his candidature, extraneous support, whether from official or non-official sources for appointment to this service.

13.9. Evaluation of various physical disabilities and procedure for certification will be as per orders contained in G.O.Ms. No. 31, WD, CW & DW (DW) Dept., dated 01.12.2009.

13.10. The Candidates who have obtained Degrees through Open Universities / Distance Education mode are required to have recognition by the Distance Education Council, Government of India. Unless such Degrees have been recognized by the D.E.C. they will not be accepted for purpose of Educational Qualification. The onus, in case of doubt, of Proof of recognition by the D.E.C. that their Degrees / Universities have been recognized, rests with the candidate. Candidates may also refer G.O.R.T.No.143, Higher Education (EC) Dept., Dated:11.07.2018 and the Supreme Court judgment dated:03.11.2017 in this connection.

PARA- 14 Please read the following Annexures appended to the notification before filling the application form

Annexure- I- Break up of vacancies
Annexure- II- Scheme & Syllabus
Annexure- III- Instructions to candidates
Annexure- IV- LIST OF SC / ST /BC's
Annexure – V – Subject equivalency particulars

PARA-15: PROCEDURE OF SELECTION:

15.1. The selection to this post will be based on the Scheme and Syllabus shown at Annexure-II. The selection of candidates for appointment to the post will be made in two successive stages viz., (1) Written Examination and (2) Oral Test in the shape of an interview.

15.2. Appearance in all the papers of computer based examination / Main examination is compulsory. Absence in any of the papers will automatically render the disqualification of the candidature.

15.3. As per G.O.Ms.No.5 General Administration (Ser-A) Dept., dated:05.01.2018 "Government here by permit the Andhra Pradesh Public Service Commission to pick up candidates who obtains such minimum qualifying marks in Screening Test / Preliminary Examination as may be fixed by the Commission at its discretion shall be admitted to the Main Examination in all direct recruitment examinations. The APPSC is further permitted to select candidates belonging to the Scheduled Caste or Scheduled Tribes or Backward classes or Physically Challenged candidates for Main Examination by applying relaxed standards in the Screening Test / Preliminary Examination, if the Commission is of the opinion that sufficient number of candidates from these communities are not likely to be eligible for main examination on the basis of general standard in Screening Test / Preliminary Examination in order to fill up the vacancies reserved for them". Candidates who will come up for selection due to relaxed standards shall be considered against reserved category only.

15.4. The minimum qualifying marks for consideration of a candidate to the selection process are 40% for OCs, 35% for BCs, and 30% for SCs, STs and PHs or as per rules. In the event of Schedule Caste & Schedule Tribe candidates not coming up for selection with the existing minimum prescribed for selection in the competitive examination conducted by the APPSC their selection shall be considered on the basis of rank with reference to their performance in the written and / or oral competitive examination irrespective of the marks secured.

N.B.: Mere securing of minimum qualifying marks does not confer any right to the candidate for being considered to the selection.

15.5. Where the candidates get equal number of marks in the screening test if two or more candidates get equal total number of marks, those candidates shall be bracketed. Candidates within the same bracket shall then be ranked 1, 2, 3 etc., according to age i.e., oldest being considered for admission. In case there is tie in age, the person who possesses educational qualification at earlier date would be considered.

15.6. With regard to situation where there is deletion of questions, if any, from any paper, scaling (proportionate increase) would be done for that particulars part of the paper to the maximum marks prescribed for the paper and the marks would be rounded off to 2 decimals to determine the merit of the candidate.

15.7. While the Commission calls for preference of candidates in respect of zones etc., in the application form, it is hereby clarified that the said preferences are only indicative for being considered to the extent possible but not binding or limiting the Commission's powers under Article 315 and 320 of the Constitution of India. Therefore, the Commission has the power to assign a candidate to any of the notified posts for which he is considered to be qualified and eligible, subject to fulfilling the selection criterion. Mere claim of preference for any Zone for allotment against vacancy does not confer a right to selection for that Zone in particular or any Zone in general.

15.8. The appointment of selected candidates will be subject to their being found medically fit in the appropriate medical classification, and if he/she is of sound health, active habits and free from any bodily defect or infirmity.

15.9. ANSWER KEY AND MARKS: Answer key would be published on the website and marks of each candidate are also displayed on website. No separate memorandum of marks would be issued.

PARA-16: DEBARMENT:

16.1. Candidates should make sure of their eligibility to the post applied for and that the declaration made by them in the format of application regarding their eligibility is correct in all respects. Any candidate **furnishing in-correct information or making false declaration regarding his/her eligibility at any stage or suppressing any information** is liable TO BE DEBARRED UPTO FIVE YEARS FROM APPEARING FOR ANY OF THE EXAMINATIONS CONDUCTED BY THE COMMISSION, and summary rejection of their candidature for this recruitment.

16.2. The Penal Provisions of Act 25/97 published in the A.P. Gazette No. 35, Part-IV.B Extraordinary dated: 21/08/1997 shall be invoked **if malpractice and unfair means are noticed at any stage** of the recruitment. Further candidates shall be liable for penalty as per G.O.Ms.No.385,G.A.(Ser. A) Dept., Dt.18/10/2016. The Chief Superintendent of the examination centre is authorized to take decision in case of malpractice or usage of unfair means or creation of disturbance or use of physical force by any candidate and report the matter to the competent authority as well as register a police case.

16.3. The Commission is vested with the Constitutional duty of conducting recruitment and selection as per rules duly maintaining utmost secrecy and confidentiality in this process and any attempt by anyone causing or likely to cause breach of this constitutional duty in such manner or by such action as to violate or likely to violate the fair practices followed and ensured by the Commission will be sufficient cause for rendering such questionable means as ground for debarment and penal consequences as per law and rules as per decision of the Commission.

16.4. Any candidate found **impersonating or procuring impersonation by any person** or resorting to any other irregular or improper means in connection with his / her candidature for selection or obtaining support of candidature by any means, such a candidate may in addition to rendering himself/ herself liable to criminal prosecution, be liable to be debarred permanently from any exam or selection held by the Service Commissions in the country.

16.5. ELECTRONIC GADGETS BANNED:

(a) The use of any mobile (even in switched off mode), pager, scientific calculator or any electronic equipment or programmable device or storage media like pen drive, smart watches etc., or camera or blue tooth devices or any other equipment or related accessories either in working or switched off mode capable of being used as a communication device during the examination is strictly prohibited. Any infringement of these instructions shall entail disciplinary action including ban from future examinations.

(b) Candidates are advised in their own interest not to bring any of the banned items including mobile phones/ pagers to the venue of the examination, as arrangement for safe – keeping cannot be assured.

PARA-17: COMMISSION'S DECISION TO BE FINAL:

The decision of the Commission in all aspects and all respects pertaining to the application and its acceptance or rejection as the case may be, conduct of examination and at all consequent stages culminating in the selection or otherwise of any candidate shall be final in all respects and binding on all concerned, under the powers vested with it under Article 315 and 320 of the Constitution of India. Commission also reserves its right to alter and modify the terms and conditions laid down in the notification for conducting the various stages up to selection, duly intimating details thereof to all concerned, as warranted by any unforeseen circumstances arising during the course of this process, or as deemed necessary by the Commission at any stage.

Place: VIJAYAWADA
Date: 28.12.2018

Sd/-A.K.Maurya,IFS,
Secretary

ANNEXURE-I

NOTIFICATION NO.22/2018

BREAKUP OF PROVISIONAL VACANCIES FOR THE POST OF JUNIOR LECTURERS IN INTERMEDIATE EDUCATION

Note: 1. As per G.O.Ms.No.277, GA (SC & ST CELL .B) Dept., dated: 22.03.1976 and G.O.Ms.No.23 Backward Class (Welfare) Dept., dated: 18.03.1996 and G.O.MS.No.81, G.A. (Service. A) Department, dt. 22/02/1997 the Carry Forward vacancies to be filled first by a relevant community candidate in succeeding recruitment.

2. If eligible candidates are not available from any of the disabled categories, i.e. VH, HH and OH the vacancy shall be filled-up by interchange among candidates of other categories of disability, as per G.O.Ms.NO.23, Dept., for woman, children, disabled, & senior citizens (DW) dated:26.05.2011, G.O.Ms.No.99, General Admn (Services -D) Dept., dated: 04.03.2013. Hence, all the disabled categories of persons are allowed to apply.

3. Reservation to meritorious sports persons will apply as per G.O.Ms.No.13 GA (Ser-D) Dept., dated:23.01.2018 and G.O.Ms.No.74 youth advancement tourism and culture (sports) Department, dated:09.08.2012 and G.O.Ms.No.473, youth, advancement, Tourism and Culture (Sports) Dept., dated: 03.12.2018.

I. CARRIED FORWARD (CF) VACANCIES

***Post Code No.01* English**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01

***Post Code No. 02* Telugu**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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HH	-	-	01	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	02	-	02
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	01	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	02	-	02

***Post Code No. 03* Hindi**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01

***Post Code No.04* Urdu**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01 SC/ST	-	-	-	01	-	01
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01

***Post Code No. 06* Oriya**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	01
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	01	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	01	02

***Post Code No.06* Physics**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
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BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	01	-	-	-	-	-	01	-	-	-	01	-	01	-	02
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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***Post Code No. 09* Chemistry**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	01	01	-	-	01	01	-	-	02
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	01
VH	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	01
HH	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	01	01	-	-	-	01	-	-	-	-	01	01	-	-	01	01	01	02	05

***Post Code No.10* Botany**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	01	-	-	-	-	-	-	-	02	-	-	-	03	-	03

Post Code No.11 Zoology

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	01
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	01	01	-	-	01	01	-	02
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	01	-	-	-	-	-	-	-	-	-	-	02	01	-	-	02	02	-	04

***Post Code No. 12* Commerce**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	01	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	01	01	02

***Post Code No. 13* Economics**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	01	-	-	01	01	-	-	-	-	-	-	-	-	-	-	01	02	03
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	-	02	-	02
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	-	02	-	02
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	01	01	-	01	01	-	-	02	-	-	01	02	-	01	01	05	02	09

***Post Code No.14* Civics**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	01
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	-	-	-	01
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	01	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	01	-	-	02

***Post Code No.15* History**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	02	-	02

II FRESH VACANCIES

***Post Code No.01* English**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	02	01	01	-	01	-	01	-	-	01	01	-	01	01	03	-	04	03	10
BC-A	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01
BC-B	01	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01	-	01	-	02
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	01	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	02	-	02
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	01	-	-	01	01	02
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01		03	01	01	-	03	-	01	-	01	01	01	-	03	02	04	-	10	04	18

***Post Code No.02* Telugu**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	01	-	-	-	01	-	-	-	01	-	-	-	01	-	-	-	04	-	04
BC-A	-	-	-	-	-	-	-	-	-	-	-	01	-	-	01	-	-	-	01	01	02
BC-B	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	01	-	-	-	-	-	-	01	-	-	-	01	01	-	02
BC-E	-	-	-	-	-	-	01	-	01	-	-	-	-	-	-	01	01	-	01	01	03
SC	-	-	01	-	-	01	-	-	-	-	-	-	-	-	-	01	-	01	01	01	03
ST	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01	-	03	-	-	01	03	-	01	-	01	01	-	01	02	02	02	02	09	03	16

***Post Code No.03* Hindi**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	01	01	-	-	01	02	-	01	-	-	01	-	-	02	-	01	02	05	01	09
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	-	01
BC-B	-	-	01	-	-	-	01	-	-	-	-	-	-	-	-	01	-	-	02	01	03
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	-	01
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	02	-	02
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	01	03	-	-	01	03	-	01	-	01	01	01	-	03	01	02	02	10	02	16

***Post Code No.04* Urdu**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
BC-D	-	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	-	01
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	01	-	-	-	01	-	-	-	01	-	-	-	03	-	03

***Post Code No. 05* Sanskrit**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	01
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	01
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	01
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	01	-	-	-	01	-	-	-	01	-	-	-	-	-	-	-	03	03

***Post Code No. 07* Mathematics**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	01	-	-	01	-	-	01 (sports)	01	01	-	-	01	-	-	02	-	02	-	03	03	08
BC-A	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	01	01	02
BC-B	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	01	-	-	-	01	-	-	-	01	-	-	01	-	-	-	01	03	-	04
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	01
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01		02	01	01		02	01	01		01	01		01	03	01	03	01	08	04	16

***Post Code No. 08* Physics**

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	01	01	-	01	-	01	01	-	-	-	01	-	-	01	01	01	01	03	03	08
BC-A	-	-	-	-	-	-	-	-	-	-	01	-	01	-	-	-	01	-	01	-	02
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C		-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01
BC-D	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01
BC-E		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	01	-	-	-	-	-	01	-	-	-	-	-	-	-	01	-	01	-	02
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	01
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	01	03	-	01	-	02	01	01	-	01	01	01	-	02	02	03	01	08	04	16

***Post Code No. 09* Chemistry**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	01	01	-	-	01	01	-	-	-	01	-	01	-	01	01	01	02	04	01	08
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
BC-B	-	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	-	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	-	-	-	01
ST	-	-	01	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	02	-	02
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	01	-	-	-	01	-	-	-	-	-	-	-	01	-	-	-	03	03
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	01	02	01	-	01	02	01	01	-	02	-	01	-	02	02	02	02	08	04	16

***Post Code No. 10* Botany**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	01	-	01	-	-	01	01	-	-	-	01	-	-	-	01	01	01	01	04	01	07
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	01	-	-	-	01	-	-	-	-	01	-	-	-	-	-	-	02	01	03
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	01	-	-	01	-	01	-	-	-	01	-	-	-	02	-	01	01	04
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	01
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01	-	02	01	-	01	03	-	01		01	01	01		02	02	03	01	08	04	16

***Post Code No. 11* Zoology**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	01	01	01	-	-	01	-	01	01	-	-	-	02	01	01	01	04	03	09
BC-A	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01
BC-B	-	-	-	-	-	-	01	-	-	-	01	-	01	-	-	-	01	-	02	-	03
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01
ST	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01	-	02	01	01	-	02	01	-	01	02	-	01	-	03	01	03	01	09	03	16

***Post Code No. 12* Commerce**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	02	-	01	-	01	-	-	-	-	01	-	-	01	-	01	-	04	01	06
BC-A	01	-	-	-	-	-	01	-	-	-	-	-	-	-	01	-	01	-	02	-	03
BC-B	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	01	-	-	-	-	01	-	-	01	01	-	02

BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
SC	-	-	-	-	-	-	01	-	-	-	-	01	-	01	-	-	-	01	01	01	03
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01	-	02	01	01	-	03	-	-	01	-	02	-	01	04	-	02	02	09	03	16

***Post Code No. 13* Economics**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	02	-	-	01	01	-	01	-	-	01	-	01	01	-	01	02	04	01	08
BC-A	-	-	-	-	-	-	-	01	-	-	-	-	-	-	01	-	-	-	01	01	02
BC-B	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	-	02	02
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	01
SC	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	01
ST	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	01
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	01	02	01	-	01	01	02	01	-	-	02	-	01	02	02	01	03	05	07	16

***Post Code No. 14* Civics**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	01	01	-	-	-	01	01	-	01	-	-	-	01	01	01	-	03	03	07
BC-A	01	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	01	-	01	-	02
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01
BC-E	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01
SC	-	-	01	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	02	-	02
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	01
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01	-	02	01	01	-	02	01	01	-	02	-	-	01	03	01	03	01	09	03	16

***Post Code No.15* History**

COMM UNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	01	-	01	-	-	01	01	-	-	-	01	-	01	-	01	01	02	01	04	01	08
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	01	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	01	01	02
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
BC-D	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	01	-	-	01	-	-	-	-	01	-		01	02	-	03
ST	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	01
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01	-	03	-	-	01	03	-	-	01	01	01	01	-	03	01	02	02	10	02	16

ANNEXURE-II

NOTIFICATION NO.22/2018

SCHEME AND SYLLABUS FOR RECRUITMENT TO THE POST OF
JUNIOR LECTURERS IN GOVT. JR. COLLEGES

Papers	*No.of Questions*	*Duration (Minutes)*	*Maximum Marks*
PART-A: Written 'Examination (Objective Type)			
Paper-1: General Studies & Mental Ability **(Degree Standard)**	150	150	150
Paper-2: Concerned Subject (One only) **(P.G. standard)**	150	150	300
PART-B: Interview (Oral Test)			50
NEGATIVE MARKS: As per G.O. Ms. No.235 Finance (HR-I, Plg & Policy) Dept., Dt.06/12/2016, for each wrong answer will be penalized with 1/3rd of the marks prescribed for the question.			

1. The Candidates have to write Paper-2 examination in the subject (relevant to the Post Code applied) studied at PG Level **One** from the following:-

Subject Code	Name of the Subject
01	English
02	Telugu
03	Hindi
04	Urdu
05	Sanskrit
06	Oriya
07	Mathematics
08	Physics

Subject Code	Name of the Subject
09	Chemistry
10	Botany
11	Zoology
12	Commerce
13	Economics
14	Civics
15	History

SYLLABUS
PAPER-1: GENERAL STUDIES AND MENTAL ABILITY

1. Events of national and international importance.
2. Current affairs- international, national and regional.
3. General Science and it applications to the day to day life Contemporary developments
   in Science & Technology and information Technology
4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
6. Economic development in India since independence with emphasis on Andhra Pradesh.
7. Physical geography of Indian sub-continent and Andhra Pradesh.
8. Disaster management: vulnerability profile, prevention and mitigation strategies,
   Application of Remote Sensing and GIS in the assessment of Disaster.
9. Sustainable Development and Environmental Protection
10. Logical reasoning, analytical ability and data interpretation.
11. Data Analysis:
    a) Tabulation of data
    b) Visual representation of data
    c) Basic data analysis (Summary Statistics such as mean, median, mode, variance and coefficient of variation) and Interpretation
12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social,

Cultural, Political, and Legal implications/problems.

PAPER-2 – (CONCERNED SUBJECT)
1. ENGLISH

I. Movements and Concepts

Renaissance, Metaphysical poetry, Neo-classicism, Romanticism, Rise of the novel, Modernism, Postmodernism, Colonialism, Postcolonialsim, Diaspora, Psychoanalytical criticism, Myth and archetype, Feminism, Structuralism, Poststructuralism, Deconstruction.

II. Writers and Texts

1)	William Shakespeare	*Hamlet*, *Tempest*
2)	John Milton	*Paradise Lost*-Book 1 and 9
3)	William Wordsworth	"Immortality Ode", *Tintern Abbey*
4)	John Keats	"Ode to a Nightingale", "To Autumn"
5)	Robert Browning	"My Last Duchess", "The Last Ride Together"
6)	**Charles Dickens**	***David Copperfield***
7)	**TS Eliot**	**"The Waste Land", *Murder in the Cathedral***
8)	**GB Shaw**	***Saint Joan***
9)	**Virginia Woolf**	**"A Room of One's Own"**
10)	**Samuel Beckett**	***Waiting for Godot***
11)	**William Golding**	***Lord of the Flies***
12)	**Robert Frost**	**"Home Burial", "The Road Not Taken"**
13)	**Eugene O'Neill**	***The Hairy Ape***
14)	**Toni Morrison**	***Beloved***
15)	**Mulk Raj Anand**	***Untouchable***
16)	**AK Ramanujan**	"Love Poem for a Wife", "Small-Scale Reflections on a Great House"
17)	**Girish Karnad**	***Hayavadana***
18)	**Salman Rushdie**	***Midnight's Children***
19)	**Chinua Achebe**	***Things Fall Apart***
20)	**Margaret Atwood**	***Edible Woman***
21)	**AD Hope**	**"Australia", "Crossing the Frontier"**
22)	**Bessie Head**	*A Question of Power*

III. English Language Teaching

1) ELT in India: (History and status of English in India; English as Second Language, English as Foreign Language, and Ensglish as Global Language).
2) Methods and Approaches: (Grammar Translation method, Direct method, Audio-Lingual method; Structural approach, Communicative language teaching)
3) Teaching of Language Skills: (Teaching of Listening, Speaking, Reading, and Writing Skills; Teaching of Grammar and Functional English; Teaching of Vocabulary; Classroom techniques; Use of authentic materials)
4) Testing and Evaluation: (Principles, Types, Objectives of testing and evaluation)
5) Phonetics and Phonology; Syntax and Structure.

తెలుగు

1. (ఎ) సంప్రదాయ సాహిత్యకవుల అధ్యయనం – కాలం – రచనలు

నన్నయ, తిక్కన, ఎర్రన, శివకవులు (నన్నెచోడుడు, మల్లికార్జున పండితారాధ్యుడు, పాల్కురికి సోమనాథుడు), నాచనసోమన – భాస్కర రామాయణ కవులు, రంగనాథ రామాయణ కవి – శ్రీనాథుడు – పోతన – పిల్లలమర్రి పినవీరభద్రుడు – గౌరన – జక్కన – అనంతామాత్యుడు – కొరవి గోపరాజు – నంది మల్లన, ఘంట సింగన –అష్టదిగ్గజ కవులు – తాళ్ళపాక కవులు – శ్రీకృష్ణదేవరాయలు – పొన్నగంటి తెలగన్న – చేమకూర వెంకటకవి – తంజావూరు రాజకవులు – కవయిత్రులు – కూచిమంచి తిమ్మకవి – జగ్గకవి.

(బి) వేమన తాత్త్వికత – సమకాలిక పరిశీలన, దృక్పథం – సమాజంపై వేమన కవిత్వ ప్రభావం.

2. సాహిత్య ధోరణుల అధ్యయనం – యుగప్రభావం – రూపాలు – మొదలైనవి. ఇతిహాసం – పురాణం ప్రబంధం – శతకం – సంకీర్తన సాహిత్యం – చారిత్రక కావ్యం – సంప్రదాయ, ఆధునిక గద్య రచనలు – నవల – కథానిక – వ్యాసం – ఏకాంకిక మొదలైనవి – వాదాలు (దళిత, హేతు, స్త్రీ, ప్రాంతీయ)

3. జానపద విజ్ఞానం – గేయాలు – కథాగేయాలు – గద్యాఖ్యానాలు – (పురాణగాథలు – ఇతిహ్యాలు– కథలు), సామెతలు – పొడుపుకథలు – జానపద కళలు – (వీధి నాటకాలు, యక్షగానాలు, బొమ్మలాటలు, పగటివేషాలు, చిందు, గంగ జాతర కళారూపాలు.

4. ఆధునిక కవుల అధ్యయనం – ఆధునిక ధోరణులు వారి రచనలు – గురజాడ – రాయప్రోలు – వీరేశలింగం – చిలకమర్తి – పానుగంటి – విశ్వనాథ – దేవులపల్లి – బసవరాజు – పింగళి – కాటూరి – దువ్వూరి – పుట్టపర్తి – శ్రీశ్రీ – ప్రసిద్ధ ఆధునిక కవులు – భావ అభ్యుదయ – దిగంబర.

5. తెలుగు వ్యాకరణ, ఛందస్సు అధ్యయనం :

వ్యాకరణం – బాల వ్యాకరణం (సంజ్ఞ, సంధి, క్రియా, తత్సమ, ఆచ్ఛిక ప్రకరణాలు)
ప్రౌఢ వ్యాకరణ (సంజ్ఞ, సంధి, కారక, శబ్ద వాక్య పరిచ్ఛేదాలు)

ఛందస్సు – వృత్తాలు, జాతులు, ఉపజాతులు
(ఉత్పలమాల, చంపకమాల, శార్దూలం, మత్తేభం, ద్విపద, తరువోజ, సీసం, కందం, స్రగ్ధర, పంచచామరం)

అలంకారాలు – అర్థాలంకారాలు, శబ్దాలంకారాలు

6. తెలుగు భాషా చరిత్ర పరిణామం – (ప్రాబ్నన్నయ యుగం నుండి నేటి వరకు)– ద్రావిడ భాషా కుటుంబాలలో తెలుగు స్థానం – భౌగోళిక విభజన – మాండలికాలు.

7. భాషా విజ్ఞాన అధ్యయనం – భాషా శాస్త్రం, అర్థ విపరిణామం – ఆధునిక కాలం : శాసన భాష నుండి సాహిత్య భాష వరకు (వ్యావహారిక భాషా ఉద్యమం వంటివి)

8. తెలుగు సాహిత్య పరిణామం – (ప్రాబ్నన్నయ యుగం నుండి నేటి వరకు)

9. సౌందర్య, సాహిత్య విమర్శ అధ్యయనం (ప్రాక్, పశ్చిమ) ఆధునిక తెలుగు సాహిత్య విమర్శ.

10. సంస్కృత వ్యాకరణం, కావ్యాలు – సంస్కృత వ్యాకరణం ప్రాథమిక విజ్ఞానం, సామాన్య ప్రామాణిక గద్య, పద్య పాఠ్యాంశాలు – హితోపదేశం, కాళిదాసుని కృతులు, సంస్కృత పంచకావ్యాల పరిచయం.

3. HINDI

HINDI

हिन्दी भाषा और उसका विकास

इकाई-1

हिन्दी की ऐतिहासिक पृष्ठभूमि : प्राचीन भारतीय आर्यभाषाएँ – वैदिक तथा लौकिक संस्कृत और उनकी विशेषताएँ। मध्यकालीन भारतीय आर्यभाषाएँ – पालि; प्राकृत – शौरसेनी, अर्धमागधी, मागधी, अपभ्रंश और उनकी विशेषताएँ। आधुनिक भारतीय आर्यभाषाएँ और उनका वर्गीकरण। देवनागरी लिपि: विकास, विशेषताएँ और मानकीकरण।

इकाई-2

हिन्दी का भौगोलिक विस्तार: हिन्दी की उपभाषाएँ, पश्चिमी हिन्दी, पूर्वी हिन्दी, विशेषताएँ।

इकाई 3

हिन्दी का भाषिक स्वरूप : हिन्दी की स्वनिम व्यवस्था – खंड्य, खंड्येतर। हिन्दी शब्द रचना – उपसर्ग, प्रत्यय, समास। रूपरचना – लिंग, वचन, और कारक – व्यवस्था के संदर्भ में हिंदी के संज्ञा, सर्वनाम, विशेषण और क्रियारूपा। हिन्दी वाक्य रचना: पदक्रम और अन्विति।

इकाई 4

हिन्दी के विविध रूप: संपर्क भाषा, राष्ट्रभाषा, राजभाषा के रूप में हिन्दी, माध्यम-भाषा, संचार-भाषा; हिन्दी की सांविधानिक स्थिति। हिन्दी प्रसार के आंदोलन, प्रमुख व्यक्तियों तथा संस्थाओं का योगदान।

इकाई-5

हिन्दी साहित्य का इतिहास

हिन्दी साहित्य का इतिहास- दर्शन, हिन्दी साहित्य के इतिहास-लेखन की पद्धतियाँ। हिन्दी साहित्य के प्रमुख इतिहास ग्रंथ, हिन्दी के प्रमुख साहित्यिक केन्द्र, संस्थाएँ एवं पत्र-पत्रिकाएँ, हिन्दी साहित्य के इतिहास का काल विभाजन और नामकरण

आदिकाल: हिन्दी साहित्य का आरम्भ कब और कैसे ? रासो साहित्य आदिकालीन हिन्दी का जैन साहित्य, सिद्ध और नाथ साहित्य, अमीर खुसरों की हिन्दी कविता, विद्यापति और उनकी पदावली, आरम्भिक गद्य तथा लौकिक साहित्य।

इकाई 6

मध्यकाल

भक्ति आन्दोलन के उदय के सामाजिक-सांस्कृतिक कारण, प्रमुख निर्गुण एवं सगुण संप्रदाय, वैष्णव भक्ति की सामाजिक- सांस्कृतिक पृष्ठभूमि, आलवार सन्त, पुमुख संप्रदाय और आचार्य, भक्ति आन्दोलन का अखिल भारतीय स्वरूप और उसका अन्त:प्रादेशिक वैशिष्ट्य।

हिन्दी सन्त काव्य : सन्त काव्य का वैचारिक आधार, प्रमुख निर्गुण संत कवि कबीर, नानक, दादू, रैदास, संत काव्य की प्रमुख विशेषताएँ, भारतीय धर्म साधना में संत कवियों का स्थान।

हिन्दी सूफी काव्य: सूफी काव्य का वैचारिक आधार, हिन्दी के प्रमुख सूफी कवि और काव्य – मुल्ला दाऊद(चन्दायन), कुतुबन (मृगावती), मंझन (मधुमालती), मालिक मुहम्मद जायसी (पद्मावत), सूफी प्रेमाख्यानकों का स्वरूप, हिन्दी सूफी काव्य की प्रमुख विशेषताएँ।

हिन्दी कृष्ण काव्य : विविध संप्रदाय, वल्लभ संप्रदाय, अष्टछाप, प्रमुख कृष्ण भक्त कवि और काव्य, सूरदास (सूरसागर), नंददास (रास पंचाध्यायी), भ्रमरगीत परंपरा, गीति परंपरा और हिन्दी कृष्ण काव्य – मीरा और रसखान।

हिन्दी राम काव्य विविध संप्रदाय, राम भक्ति शाखा के कवि और काव्य, तुलसीदास की प्रमुख कृतियाँ, काव्य रूप और उनका महत्व।

रीति काल: सामाजिक-सांस्कृतिक परिप्रेक्ष्य, रीतिकाव्य के मूल स्त्रोत, रीतिकाल की प्रमुख प्रवृत्तियाँ, रीतिकालीन कवियों का आचार्यत्व, रीतिमुक्त काव्यधारा, रीतिकाल के प्रमुख कवि: केशवदास, मतिराम, भूषण, बिहारीलाल, देव, घनानन्द और पद्माकर, रीतिकाव्य में लोकजीवन।

इकाई 7

आधुनिक काल: हिन्दी गद्य का उद्भव और विकास। भारतेन्दु पूर्व हिन्दी गद्य, 1857 की राज्य क्रान्ति और सांस्कृतिक पुनर्जागरण, भारतेन्दु और उनका मण्डल, 19वीं शताब्दी के उत्तरार्द्ध की हिन्दी पत्रकारिता।

द्विवेदी युग: महावीर प्रसाद द्विवेदी और उनका युग, हिन्दी नवजागरण और सरस्वती, मैथिलीशरण गुप्त और राष्ट्रीय काव्यधारा, राष्ट्रीय काव्यधारा के प्रमुख कवि, स्वच्छन्दतावाद और उसके प्रमुख कवि।

छायावाद और उसके बाद: छायावदी काव्य की प्रमुख विशेषताएँ, छायावाद के प्रमुख कवि: प्रसाद, निराला, पंत, और महादेवी, उत्तर छायावादी काव्य और उसके प्रमुख कवि, प्रगतिशील काव्य और उसके प्रमुख कवि, प्रयोगवाद और नई कविता, नई कविता के कवि, समकालीन कविता, समकालीन साहित्यिक पत्रकारिता।

इकाई 8

हिन्दी साहित्य की गद्य विधाएँ

हिन्दी उपन्यास: प्रेमचंद पूर्व उपन्यास, प्रेमचंद और उनका युग, प्रेमचंद के परवर्ती प्रमुख उपन्यासकार: जैनेन्द्र, अज्ञेय, हजारी प्रसाद द्विवेदी, यशपाल, अमृतलाल नागर, फणीश्वरनाथ रेणु, भीष्म साहनी, कृष्ण सोबती, निर्मल वर्मा, नरेश मेहता, श्रीलाल शुक्ल, राही मासूम राजा, रंगेय राघव, मन्नू भण्डारी।

हिन्दी कहानी: बीसवीं सदी की हिन्दी कहानी और प्रमुख कहानी आन्दोलन।

हिन्दी नाटक: हिन्दी नाटक और रंगमंच, विकास के चरण और प्रमुख नाट्यकृतियाँ: अंधेर नगरी, चंद्रगुप्त, अंधायुग, आधे-अधूरे, आठवां सर्ग, हिन्दी एकांकी।

हिन्दी निबंध: हिन्दी निबंध के प्रकार और प्रमुख निबंधकार – रामचन्द्र शुक्ल, हजारीप्रसाद द्विवेदी, कुबेरनाथ राय, विद्यानिवास मिश्र, हरिशंकर परसाई।

हिन्दी आलोचना: हिन्दी आलोचना का विकास और प्रमुख आलोचक: रामचन्द्र शुक्ल, नंददुलारे वाजपेयी, हजारी प्रसाद द्विवेदी, रामविलास शर्मा, डॉ.नगेन्द्र, डॉ. नामवर सिंह, विजयदेव नारायण साही। हिन्दी की अन्य गद्य विधाएँ : रेखाचित्र, संस्मरण, यात्रा-साहित्य, आत्मकथा, जीवनी और रिपोर्ताज।

इकाई 9

काव्य शास्त्र और आलोचना:

काव्य के लक्षण: शब्दार्थौ सहितौ काव्यम् (भामह), तद्दोषौ शब्दार्थौ सगुणावनलंकृती पुन: क्वापि (मम्मट), वाक्यं रसात्मकं काव्यम् (विश्वनाथ), रमणीयार्थ-प्रतिपादक: शब्द: काव्यम् (पण्डितराज जगन्नाथ), काव्य की आत्मा।

विविध संप्रदाय, प्रमुख सिद्धांत-रस, अलंकार, रीति,ध्वनि, वक्रोक्ति और औचित्य।

रस का स्वरूप और साधारणीकरण।

सहृदय की अवधारणा।

हिन्दी आलोचना – रामचन्द्र शुक्ल और उनके आलोचनात्मक प्रतिमान।

शुक्लोत्तर समीक्षा और समीक्षक – हजारी प्रसाद द्विवेदी, नन्ददुलारे वाजपेयी, डॉ. रामविलास शर्मा, डॉ. नामवर सिंह, विजयदेव नारायण साही, समकालीन आलोचना।

प्लेटो और अरस्तू का अनुकरण सिद्धांत तथा अरस्तू का विरेचन सिद्धांत।

वर्डसवर्त का काव्य- भाषा सिद्धांत।

कालरिज कल्पना और फैन्टसी।

आई.ए.रिचर्डस – मूल्य सिद्धांत तथा काव्य भाषा सिद्धांत

टी.एस. इलिएट – निर्वैयक्तिकता का सिद्धांत, वस्तुनिष्ठ सह-सम्बन्धी, परंपरा की अवधारणा।

रुसो – रूपवाद, नयी समीक्षा।

संरचनावाद, उत्तर संरचनावाद, आध्निकता, उत्तर आधुनिकता, विखण्डनवाद।

इकाई 10

कबीर – हजारी प्रसाद द्विवेदी – दोहा – पद सं 160-209

जायसी ग्रंथावली – सं रामचन्द्र शुक्ल – नागमती वियोग खण्ड

सूरदास – भ्रमरगीत – सार – सं रामचन्द्र शुक्ल 21 से 70 तक

तुलसीदास – उत्तरकाण्ड, रामचरितमानस – गीता प्रेस, गोरखपुर

प्रसाद – कामायनी – श्रद्धा, इड़ा सर्ग

निराला – राम की शक्ति पूजा, कुकुरमुत्ता

अज्ञेय – असाध्यवीणा, नदी के द्वीप

मुक्तिबोध – अंधेरे में।

प्रेमचंद – गोदान

अज्ञेय – शेखर एक जीवनी, भाग-1

प्रसाद – चन्द्रगुप्त

मोहन राकेश – आधे-अधूरे

इकाई 11

प्रयोजनमूलक हिन्दी

प्रयोजनमूलक हिन्दी : अर्थ, परिभाषा और क्षेत्र, ज्ञान प्रधान, सूचनात्मक और रचनात्मक साहित्य में प्रयुक्त भाषा भेद, हिन्दी का क्षेत्रीय, राष्ट्रीय एवं अंतर्राष्ट्रीय संदर्भ

हिन्दी भाषा-नियोजन एवं भाषा प्रबंधन

भारतीय बहुभाषिकता और हिन्दी, हिन्दी की व्यापक संकल्पना

प्रयुक्ति का अर्थ और प्रकार

प्रयोजनमूलक हिन्दी की विविध प्रयुक्तियाँ

प्रमुख प्रयुक्ति क्षेत्र – वैज्ञानिक, तकनीकी, कार्यालयीं, व्यवसायिक आदि

इन क्षेत्रों से संबंधित विशिष्ठ अभिव्यक्तियों एवं पारिभाषिक शब्दावली का सामान्य परिचय

प्रयोजनमूलक हिन्दी और अनुवाद

इकाई 12

हिन्दी में कंप्यूटर की सुविधाएँ

शब्द संसाधन, हिन्दी साफटावेर , हिन्दी में कंप्यूटर अनुप्रयोग और मशीनी अनुवाद

इकाई 13

भारतीय साहित्य

भारतीय साहित्य का स्वरूप

भारतीय साहित्य के अध्ययन की समस्याएँ

भारतीय साहित्य का इतिहास और हिन्दी साहित्य के विकास में भारतीय साहित्य की भूमिका

इकाई 14

तेलुगु भाषा और साहित्य का इतिहास

तेलुगु भाषा का उद्भव और विकास

मध्ययुगीन तेलुगु साहित्य की मुख्य प्रवृत्तियाँ और प्रमुख रचनाकार

तेलुगु शैव और संत-साहित्य, राम काव्य, कृष्ण भक्ति काव्य, अष्ट दिग्गज कवि, दक्षिणांध्र युग-साहित्य, तेलुगु साहित्य का आधुनिक काल- आधुनिक तेलुगु कविता: भाव कविता-अभ्युदय कविता-दिगंबर कविता-तेलुगु कविता की अयतन प्रवृत्तियाँ-तेलुगु गद्य का विकास-उपन्यास-कहानी-नाटक-निबंध और अन्य गद्य विधाएँ- प्रतिनिधि रचनकार

इकाई 15

पत्रकारिता और मीड़िया-लेखन

हिन्दी पत्रकारिता का इतिहास

हिन्दी में समाचार लेखन कला

संपादकीय लेखन शीर्षक की संरचना, लीड़, इंट्रो

पृष्ट-सज्जा

साक्षात्कार

मीड़िया-लेखन

विभिन्न जनसंचार माध्यमों का स्वरूप, मुद्रण, श्रव्य, दृश्य, इंटरनेट

मौखिक भाषा की प्रकृति, समाचार-लेखन एवं वाचन।

दृश्य माध्यमों में भाषा की प्रकृति।

4. URDU

The Syllabus covers all important topics related to Urdu Language and Literature. It deals with the Origin & Development of Urdu Language, Deccan Urdu Literature. Evolution & Development of different Forms of Literature, both in Prose and Poetry with reference to the works of prominent writers and poets, Literature Movements and Criticism.

The Syllabus is detailed as follows :

1. ORIGIN & DEVELOPMENT OF URDU LANGUAGE
Three different periods of Indo-Aryan Language. Maghribi Hindi Aur Uski Boliyan, Khadi Boli Ka Irteqa. Urdu ke Aaghaz Ke Barey Mein Mukhtalif Nazariyat.

2. DECCANIYAT :
a) Bahmani Daur : Fakhruddin Nizami (Kadamrao Padamrao).
b) Adilshahi Daur : Nusrati (Gulshan-e-Ishq)
c) Qutubshahi Daur : Mohammaed Quli Qutub Shah (Deewas-e- Mohammed Quli QutubShah), Mulla Wajhi (Sabras & Qutub Mushtari), Ghawwasi (Saiful Mulook-o-Badeeuj Jamaal), Ibne Nishati (Phool Ban)

3. DEVELOPMENT OF DIFFERENT FORMS OF LITERATURE :
a) POETRY :
i. GHAZAL : (Tareef, Tareekh aur Tanqeed) The following Poets: Mir, Dard, Atish, Ghalib,Momin, Iqbal, Hasrat, Fani, Jigar, Firaq, Nasir Kazmi.
ii. QASEEDA: (Tareef, Tareekh aur Tanqeed) The following poets : Sauda and Zauq.
iii. MARSIYA: (Tareef, Tareekh aur Tanqeed). The following poets: Mir Anees and Mirza Daber.
iv. RUBAYEE: (Tareef, Tareekh aur Tanqeed) The following Poets: Anees, Akbar, Amjad and Josh.
v. MASNAVI: (Tareef, Tareekh aur Tanqeed) Masnavi Sehrul Bayaan (Mir Hasan), Gulzar-e-Naseem (Daya Shanker Naseem), Zehr-e-Ishq (Nawab Mirza Shauq).
vi. NAZM : (Tareef, Tareekh aur Tanqeed) (Paband Nazm, Nazm-e-Murra, Azad Nazm, Sonnet, Triolet, Haiku and Mahiya) ; Nazeer, Hali, Akbar, Chakbast, Iqbal, Josh, Akhtarul Imaan, Sardar Jafari, Noon Meem Rashid, Meeraji, Farhat Kaifi and Aziz Tamannayee.

b) PROSE :
i. DASTAN : (Tareef, Tareekh aur Tanqeed) : Bagh-o-Bahar, Fasana-e-Ajayeb.
ii. NOVEL : (Tareef, Tareekh aur Tanqueed) Fasana-e-Azad (Ratan Nath Sharshar) Taubatun Nusooh (Deputy Nazeer Ahamed) Umrao Jan Ada (Mirza Hadi Ruswa) Gowdan (Prem Chand) Ek Chadar Maili si (Rajender Singh Bedi), Tedhi Lakeer (Ismath Chugtayee), Aiwane Ghazal (Jeelani Bano).
iii. AFSANA : (Tareef, Tareekh aur Tanqeed) Premchand (Najaat), Manto (Tobatek Singh), Krishen Chander (Mahalakshmi ka Pul), Quratul Ayen Hyder (Nazaara Darmiyan Hai).
iv. DRAMA : (Tareef, Tareekh aur Tanqeed) : Amaanat (Indra Sabha). Agha Hashr Kashmiri (Said-e-Hawas), Imtiyaz Ali Taj (Anarkali), Habeeb Tanweer (Agra Bazaar), Mohammed Hasan (Zahaak).
v. INSHAIYA : (Tareef, Tareekh aur Tanqeed) Khaja Hasan Nizami (Sipara-e-Dil), Rasheed Ahmed Siddiqui (Ashufta Bayani Meri) Patras Bukhari (Mazameen-e-Patras).
vi. KHUTOOT : (Tareef, Tareekh aur Tanqeed) Ghalib (Urdu-e-Mualla), Moulana Azad (Ghubar-e-Khatir).
vii. SAWANEH NIGARI : (Tareef, Tareekh aur Tanqeed) : Yadgaar-e-Ghalib, Nazeer Ahmed Ki Kahani Kuch Unki Kuch Meri Zabani.

4. LITERARY CRITICISM : (Tareef aur Tareekh)
i. Tazkeron Mein Tanqeedi Nuqoosh : Nikatush-Shoara, Gulshan-e-Bekhar, Aab-e-Hayat.
ii. Hali ke Tanqeedi Nazariyat : Muqaddama-e-Sher-o-Shairi.
iii. Mukhtalif Tanqeedi Dabistaan (Unki Tareef aur Tareekh) : Taassurati Tanqeed, Jamaliyati Tanqeed, Nafsiyati Tanqeed, Marxi Tanqeed aur Saakhtiyati Tanqeed.
iv. Mumtaz Naqideen : Hali, Shibli, Niyaz Fatehpuri, Waheeduddin Salim, Firaq, Ehtesham Hussain, Kalimuddin Ahmed, Aale-Ahmed Suroor, Mughni Tabassum.

5. DIFFERENT LITERARY MOVEMENTS : (Their Contribution)
Fort William College, Delhi College, St. George College, Dabistane Dilli Dabistane Lucknow, Aligarh Tahreek, Jamia Osmania and Darut Tarjuma, Taraqqi Pasand Tahreek, Halqa-e-Arbaab-e-Zauq, Jadeediyat.

6. URDU JOURNALISM, TRANSLATION & MASS – MEDIA, Print and Electronic.

5. SANSKRIT

50% of questions will be set in Sanskrit and the remaining 50% questions will be set in ENGLISH.

In writing Sanskrit Devanagari should be used.

1. General introduction to Vedic literature Four Samhitas, Brahmanas, Aranyakas, Upanishads and Vedangas.

2. The Ramayana and Mahabharata - The age of their composition, Social and Political conditions revealed-Their influence on later literature.

3. Study of the following poets, their works and their age Bhasa-Kalidasa-Bharavi-Naga-Sri Harsha-Bhavabuthi-harsha Vardhana-Visakhatatta-Bhattanarayana-Dandin Banabhatta, Sudraka.

4. History of classical sanskrit literature-the origin and development of different types of literary compositions - Mahakavya - Laghukavya -Historical Kavya - Lyric Poetry - Diadactic poetry - Fable - Drama (Basic knowledge of Dasarupakas) - Gadya kavya.

5. Alankaras - Simple definitions and examples of, without varieties upama - rupaka - utpreksha - Atisayokti - Sandeha - Bhrantiman - Samaskoti - Aprastutaprasamsa - Dipaka - Tulya Yogita - Arathantharanyasa Drushtanta - Kavyalingam - Ananvyalankara - Swabhavokti.

6. Grammar - Ajanta Sadharana Sabdas in all genders - Halanta Sadharana Sabdas in all genders - Sarvanama sabdas in all genderspati - Mati - Atman - Rajan - ap.

7. Conjugations - I, IV, VI and X conjugations in (1) Lat (present tense) (2) Lit (Past perfect), (3) Lrit (Second future), Lot (imperative mood) (5) Lang (past perfect), (6) Vidhiling (potential mood).

8. Samasas - Tatpurusha - Karmadharaya - Dvandva - Ekasesh - Dvigu - Bahu vrihi - Avyavibhava.

9. Sandhi's :
   a) Ach-sandhi-Guna-Vridhi-Savarnadirgha-Prakrutibhava-Purvarupa-Pararupa-Ayavayava-Yanadesa.
   b) Halsandhi-Schutva-Shtutva-Jastva-Anunasiktva-Chartva-Anuswara.
   c) Visargasandhi.

10. Philology: Origin of the language - Classification of languages into various groups - Indo European group - Satam and Kentum - languages - Phonetic changes and their causes - Samantic changes and their causes.

11. Chandas-Vrattas (I) Vamsastham (ii) Indra Vajra (iii) Upendra Vajra (iv) Bhujanga Prayatam (v) Manda Kranta (vi) Sardulavikriditam (vii) Sikharini (viii) Sragdhara (ix) Vasantatilakam (x) Anustup.

6. ORIYA

ORIYA

ଓଡ଼ିଆ ପାଠ୍ୟକ୍ରମ

'କ' ବିଭାଗ
(ଓଡ଼ିଆ ଭାଷା ସମ୍ବନ୍ଧୀୟ)

ପ୍ରତ୍ୟେକ ବିଭାଗରୁ ପାଞ୍ଚଗୋଟି ପ୍ରଶ୍ନ ଦିଆଯିବ ।

* ଓଡ଼ିଆ ଭାଷାର ଉତ୍ପତ୍ତି ଓ କ୍ରମ ବିକାଶ
* ଓଡ଼ିଆ ଭାଷାର ଉପରେ ଇଂରେଜୀ, ଯାବନିକ ଓ ଦ୍ରାବିଡ ଭାଷାର ପ୍ରଭାବ
* କୃଦନ୍ତ ଓ ତଦ୍ଧିତ
* କାରକ ଓ ବିଭକ୍ତି
* ସମାସ ଓ ସମୋଚ୍ଚାରିତ ଶବ୍ଦ
* ସନ୍ଧି
* ଓଡ଼ିଆ ଶବ୍ଦ ଭଣ୍ଡାର
* ଧ୍ୱନି ପରିବର୍ତ୍ତନ କାରଣ
* ଓଡ଼ିଆ ସୁଭାଷଣ

'ଖ' ବିଭାଗ
(ଓଡ଼ିଆ ସାହିତ୍ୟ ସମ୍ବନ୍ଧୀୟ)

[*]ଚିହ୍ନିତ ପ୍ରତ୍ୟେକ ବିଭାଗରୁ ଦଶଗୋଟି ପ୍ରଶ୍ନ ଦିଆଯିବ ।

* ଚର୍ଯ୍ୟା ଗୀତିକା
* ସାରଳା ସାହିତ୍ୟ
* ଓଡ଼ିଆ ପୁରାଣ ଓ ସନ୍ତ ସାହିତ୍ୟ
* ଓଡ଼ିଆ ରୀତି ସାହିତ୍ୟ
* ଚଉତିଶା, କୋଇଲି ଓ ଓଡ଼ିଆ ପଦାବଳୀ ସାହିତ୍ୟ
* ଊନବିଂଶ ଶତକ ଓଡ଼ିଆ ସାହିତ୍ୟ (ଗଦ୍ୟ ସାହିତ୍ୟ, ପଦ୍ୟ ସାହିତ୍ୟ ଓ ସାହିତ୍ୟ ପତ୍ରିକା)
* ସତ୍ୟବାଦୀ ସାହିତ୍ୟ
* ସବୁଜ ସାହିତ୍ୟ ଓ ପ୍ରଗତିଶୀଳ ଓଡିଆ ସାହିତ୍ୟ
* ସ୍ୱାଧୀନତା ପରବର୍ତ୍ତୀ ଓଡ଼ିଆ ଗଦ୍ୟ ସାହିତ୍ୟ (ଗଳ୍ପ, ଉପନ୍ୟାସ, ପ୍ରବନ୍ଧ)
* ସ୍ୱାଧୀନତା ପରବର୍ତ୍ତୀ ଓଡ଼ିଆ କବିତା

7. MATHEMATICS

I. Real Analysis

Finite, countable and uncountable sets – Real Number system R – infimum and supremum of a subset of R – Bolzano – Weierstrass theorem.

Sequences, convergence, limit superior and limit inferior of sequences, sub sequences, Heine Borel Theorem.

Infinite series – Tests of convergence.

Continuity and uniform continuity of real valued functions of real variable. Monotonic functions and functions of bounded variation.

Differentiability and mean value theorems.

Riemann integrability.

Sequences and Series of functions.

II. Metric Spaces

Metric spaces – completeness, compactness and connectedness – continuity and uniform continuity of functions from one metric space into another.

Topological spaces – base and subbase – continuous function.

III. Elementary Number

Primes and composite numbers – Fundamental Theorem of arithmetic – divisibility – congruences – Fermat's theorem – Wilson's Theorem – Euler's Ø - function.

IV. Group Theory

Groups, subgroups, normal subgroups – quotient groups – homomorphisms and isomorphism theorems – permutation groups, cyclic groups, Cayley's theorem. Sylow's theorems and their applications.

V. Ring Theory

Rings, integral domains, fields – subrings and ideals – Quotient rings – homomorphisms – Prime ideals and maximal ideals – polynomial rings – Irreducibility of polynomials – Euclidean domains and principal ideal domains.

VI. Vector Spaces

Vector Spaces, Subspaces – Linear dependence and independence of vectors – basis and dimension – Quotient spaces – Inner product spaces – Orthonormal basis – Gram – Schmidt process.

VII. Matrix Theory

Linear transformations – Rank and nullity – change of bases.

Matrix of a linear transformation – singular and non-singular matrices – Inverse of matrix – Eigenvalues and eigenvectors of matrix and of linear transformation – Cayley – Hamilton's theorem.

VIII. Complex Analysis

Algebra of complex numbers – the complex plane – Complex functions and their Analyticity – Cauchy-Riemann equations – Mobius transformations.

Power Series.

Complex Integration – Cauchy's theorem – Morera's Theorem – Cauchy's integral formula – Liouville's theorem – Maximum modules principle – Schwarz's lemma – Taylor's series – Laurents series.

Calculus of residues and evaluation of integrals.

IX. Ordinary Differential Equation

Ordinary Differential Equation (ODE) of first order and first degree – Different methods of solving them – Exact Differential equations and integrating factors.

ODE of first order and higher degree – equations solvable for p, x and y – Clairaut's equations – Singular Solutions.

Linear differential equations with constant coefficients and variable coefficients – variation of parameters.

X. Partial Differential Equations

Formation of differential equations (PDE) – Lagrange and Charpit methods for solving first order – PDE's – Cauchy problem for first order PDE's Classification of second order PDE's – General solution of higher order PDE's with constant coefficients.

8. PHYSICS

PART-A

I. Mathematical Methods of Physics

Dimensional analysis. Vector algebra and vector calculus. Linear algebra, matrices, Cayley-Hamilton Theorem. Eigenvalues and eigenvectors. Linear ordinary differential equations of first & second order, Special functions (Hermite, Bessel, Laguerre and Legendre functions). Fourier series, Fourier and Laplace transforms. Elements of complex analysis, analytic functions; Taylor & Laurent series; poles, residues and evaluation of integrals. Elementary probability theory, random variables, binomial, Poisson and normal distributions. Central limit theorem.

Data interpretation and analysis. Precision and accuracy. Error analysis, propagation of errors. Least squares fitting, Linear and non-linear curve fitting and Chi-Square Test.

II. Classical Mechanics

Newton's laws. Dynamical systems, Phase space dynamics, stability analysis. Central force motions. Two body Collisions – scattering in laboratory and Centre of mass frames. Rigid body dynamics-moment of inertia tensor. Non-inertial frames and pseudoforces. Variational principle. Generalized coordinates. Lagrangian and Hamiltonian formalism and equations of motion. Conservation laws and cyclic coordinates. Periodic motion: small oscillations, normal modes. Special theory of relativity-Lorentz transformations, relativistic kinematics and mass-energy equivalence.

III. Electromagnetic Theory

Electrostatics : Gauss's law and its applications, Laplace and Poisson equations, boundary value problems. Magnetostatics : Biot-Savart law, Ampere's theorem. Electromagnetic induction. Maxwell's equations in free space and linear isotropic media; boundary conditions on the fields at interfaces. Scalar and vector potentials, gauge invariance. Electromagnetic waves in free space. Dielectrics and conductors. Reflection and refraction, polarization, Fresnel's law, interference, coherence, and diffraction. Dynamics of charged particles in static and uniform electromagnetic fields. Charged particles in inhomogeneous fields.

IV. Quantum Mechanics

Wave-particle duality. Schrödinger equation (time-dependent and time-independent). Eigenvalue problems (particle in a box, harmonic oscillator, etc.). Tunneling through a barrier. Wave-function in coordinate and momentum representations. Commutators and Heisenberg uncertainty principle. Dirac notation for state vectors. Motion in a central potential : orbital angular momentum, angular momentum algebra, spin, addition of angular momenta; Hydrogen aom. Stern-Gerlach experiment. Time-independent perturbation theory and applications. Variational method. Time dependent perturbation theory and Fermi's golden rule, selection rules. Identical particles, Pauli exclusion principle, spin-statistics connection.

V. Thermodynamics and Statistical Physics

Laws of thermodynamics and their significance. Thermodynamic potentials, Maxwell relations, chemical potential, phase equilibria. Phase space, micro-and macro-states. Micro-canonical, canonical and grand-canonical ensembles and partition functions. Free energy and its connection with thermodynamic quantities. Classical and quantum statistics. Bose and Fermi gases. Principle of detailed balance. Blackbody radiation and Planck's distribution law.

VI. Electronics

Semiconductors devices (diodes, junctions, transistors, field effect devices, homo- and hetero-junction devices), device structure, device characteristics, frequency dependence and applications. Opto-electronic devices (solar cells, photo-detectors, LEDs). Operational amplifiers and their applications. Digital techniques and applications (Logic circuits, registers, counters and comparators). A/D and D/A converters. Microprocessor microcontroller basics. Fundamentals of communication electronics, modulation techniques.

VII. Atomic & Molecular Physics

Quantum states of an electron in an atom. Electron spin. Spectrum of helium and alkali atom. Relativistic corrections for energy levels of hydrogen atom, hyperfine structure and isotopic shift, width of spectrum lines, LS & JJ couplings. Zeeman, Paschen-Bach & Stark effects. Electron spin resonance. Nuclear magnetic resonance, chemical shift. Frank-Condon principle. Electronic, rotational, vibrational and Raman spectra of diatomic molecules, selection rules. Lasers : spontaneous and stimulated emission, Einstein A & B coefficients. Optical pumping, population inversion, rate equation. Modes of resonators and coherence length.

VIII. Condensed Matter Physics

Bravais lattices. Reciprocal lattice. Diffraction and the structure factor. Bonding of solids. Elastic properties, phonons, lattice specific heat. Free electron theory and electronic specific heat. Response and relaxation phenomena. Drude model of electrical and thermal conductivity. Hall effect and

thermoelectric power. Electron motion in a periodic potential, band theory of solids : metals, insulators and semiconductors. Superconductivity : type-I and type-II superconductors. Josephson junctions. Superfluidity. Defects and dislocations. Ordered phases of matter : translational and orientational order, kinds of liquid crystalline order. Quasi crystals.

IX. Nuclear and Particle Physics
Basic nuclear properties ; size, shape and charge distribution, spin and parity. Binding energy, semi-empirical mass formula, liquid drop model. Nature of the nuclear force, form of nucleon-nucleon potential, charge-independence and charge-symmetry of nuclear forces. Deuteron problem. Evidence of shell structure, single-particle shell model, its validity and limitations. Elementary ideas of alpha, beta and gamma decays and their selection rules. Fission and fusion. Nuclear reactions, reaction mechanism, compound nuclei and direct reactions.

PART-B

I. Mathematical Methods of Physics
Green's function. Partial differential equations (Laplace, wave and heat equations in two and three dimensions). Elements of computational techniques : root of functions, interpolation, extrapolation, integration by trapezoid and Simpson's rule, Solution of first order differential equation using Runge-Kutta method. Finite difference methods. Tensors. Introductory group theory.

II. Classical Mechanics
Basic concepts of dynamical systems, Poisson brackets and canonical transformations. Symmetry, invariance and Noether's theorem. Hamilton-Jacobi theory.

III. Electromagnetic Theory
Dispersion relations in plasma. Lorentz invariance of Maxwell's equation. Transmission lines and wave guides. Radiation- from moving charges and dipoles and retarded potentials.

IV. Quantum Mechanics
Spin-orbit coupling, fine structure. WKB approximation. Elementary theory of scattering : phase shifts, partial waves, Born approximation. Relativistic quantum mechanics : Klein-Gordon and Dirac equations. Semi-classical theory of radiation.

V. Thermodynamics and Statistical Physics
First- and second-order phase transitions. Diamagnetism, paramagnetism, and ferromagnetism. Ising model. Bose-Einstein condensation. Diffusion equation. Random walk and Bronian motion. Introduction to nonequilibrium processes.

VI. Condensed Matter Physics
Electron spin resonance, Nuclear magnetic resonance, chemical shift and applications. X-ray diffraction technique, scanning electron micrscopy and transimission electron microscopy.

VII. Nuclear and Particle Physics
Classification of fundamental forces. Elementary particles and their quantum numbers (charge, spin, parity, isospin, strangeness, etc.). Quark model, baryons and mesons. C, P, and T invariance. Application of symmetry arguments to particle reactions. Parity non-conservation in weak interaction. Relativistic kinematics.

9. CHEMISTRY

INORGANIC CHEMISTRY

1. Atomic structure and chemical bonding – structure and bonding in homo and hetero nuclear molecules. Applications of VSEPR, Valence Bond and Molecular orbital theories in explaining the structures of simple molecules.

2. Transition elements and coordination compounds – physical and chemical characteristics of transition elements – Bonding theories – crystal field theory – crystal field splitting patterns in various geometries. Calculation of CFSE – Jahn-Teller effect – Application of MO theory to octahedral and square planar complexes – Electronic spectra of complexes – Russell Saunders coupling – term symbols – spectra of octahedral and tetrahedral complexes – charge transfer spectra – magnetic properties of complex compounds.

3. Metal - ligand equilibria in solution – step wise and overall stability constants – factors affecting the stability of metal complexes – Pearson's theory of hard and soft acids and bases (HSAB) – Chelate effect.

4. Reaction mechanisms in complexes – Inert and level complexes – Ligand substitution reactions of octahedral complexes – Acid hydrolysis, base hydrolysis – conjugate base mechanism – Anation reactions – substitution reactions of square planar complexes – Trans effect – Electron transfer reactions – Inner and outer sphere mechanisms.

5. Metal complexes - EAN rule – structure and bonding of metal carbonyls of Mn, Fe, Co and Ni – Metal nitrosyls – structure and bonding.

6. Cages and ring compounds – preparation, structure and reactions of boranes and carboranes – Boron-nitrogen and Sulfur-nitrogen cyclic compounds.

7. Metal clusters – factors favoring M-M bonds – Structure and bonding in $Re_2Cl_8^{2-}$, $Mo_6Cl_8^{4+}$, $Nb_6X_{12}^{2+}$, Re_3Cl_9 and $Re_3Cl_{12}^{3-}$.

8. Bio-inorganic chemistry – metal complexes as oxygen carriers – hemoglobin and myoglobin – oxygen transport – non heme proteins – hemerythrin and hemocyanin.

9. Analytical chemistry – chromatography – general principles involved in separations by paper, thin layer and column chromatography – GC and HPLC.

Physical Chemistry

1. **Thermodynamics**

Brief review of concepts of I and II laws of thermodynamics. Concept of entropy. Entropy as a state function. Calculation of entropy changes in various processes. Entropy changes in an ideal gas. Entropy changes on mixing of ideal gases. Entropy as a function of V and T. Entropy as a function of P and T. Entropy change in isolated systems- Clausius inequality. Entropy change as criterion for spontaneity and equilibrium.

Third law of thermodynamics. Evaluation of absolute entropies from heat capacity data for solids, liquids and gases. Standard entropies and entropy changes of chemical reactions. Helmholtz and Gibbs free energies (A and G). A and G as a criteria for equilibrium and spontaneity. Physical significance of A and G. Driving force for chemical reactions- relative signs of ΔH and ΔS.

Thermodynamic relations. Gibbs equations. Maxwell relations. Temperature dependence of G. Gibbs- Helmholtz equation. Pressure dependence of G.

Chemical potential: Gibbs equations for non-equilibrium systems. Material equilibrium. Phase equilibium. Clapeyron equation and Clausius-Clapeyron equation .

Conditions for equilibrium in a closed system. Chemical potential of ideal gases. Ideal-gas reaction equlibrium-derivation of equilibrium constant. Temperature dependence of equilibrium constant-the van't Hoff equation.

Solutions: Specifiying the Solution composition. Partial molar poperties-significance. Relation between solution volume and partial molar volume. Measurement of partial molar volumes-slope and intercept methods. The chemical potential. Variation of chemical potential with T and P. Gibbs-Duhem equation-derivation and significance

Ideal solutions. Thermodynamic properties of ideal solutions. Mixing quantities. Vapour pressure-Raoult's law. Thermodynamic properties of ideally dilute solutions. Vapour pressure-Henry's law.

Nonideal systems. Concept of fugacity, fugacity coefficeient. Determination of fugacity. Non ideal solutions. Activities and activity coefficients. Standard-state conventions for non ideal solutions. Determination of activity coefficients from vapour pressure measurements. Activity coefficients of nonvolatile solutes using Gibbs-Duhem equation.

Multicomponent phase equilibrium: Vapour pressure lowering, freezing point depression and boiling point elevation

2. Statistical Thermodynamics

Concepts of distribution and probability. Estimation of probability and the most probable distribution. Systems composed of noninteracting particles. Derivation of Boltzmann distribution law.

The molecular partition function. Systems composed of interacting particles. The concept of ensemble and canonical ensemble. Canonical partition function and its relation to molecular partition function. The factorization of molecular partition function – translational, rotational, vibrational and electronic partition functions. Derivation of expressions for translational, rotational (diatomic) and vibrational partition functions. Relationship between partition functions and thermodynamic functions.

The relationship between partition functions and thermodynamic functions. Specific heats of solids – Einstein equation of heat capacity of solids – derivation. Explanation of heat capacity at very low and very high temperatures – Dulong and Petits Law. Debye theory.

The entropy of a monoatomic ideal gas. The Sackur-Tetrode equation- derivation. Mean translational and vibrational energies.

3. Electrochemistry

Electrochemical Cells : Derivation of Nernst equation – problems. Chemical and concentration cells (with and without transference). Liquid junction potential – derivation of the expression for LJP – its determination and elimination. Applications of EMF measurements : Solubility product, potentiometric titrations, determination of transport numbers, equilibrium constant measurements.

Decomposition potential and its significance. Electrode polarization – its causes and elimination. Concentration overpotential.

Concept of activity and activity coefficients in electrolytic solutions. The mean ionic activity coefficient. Debye-Huckel theory of electrolytic solutions. Debye-Huckel limiting law (derivation not required). Calculation of mean ionic activity coefficient. Limitations of Debye-Huckel theory. Extended Debye-Huckel law.

Theory of electrolytic conductance. Derivation of Debye-Huckel-Onsager equation – its validity and limitations.

Concept of ion association – Bjerrum theory of ion association (elementary treatment) - ion association constant – Debye-Huckel-Bjerrum equation.

4.QUANTUM CHEMISTRY

Black body radiation-Planck's concept of quantization-Planck's equation, average energy of an oscillator (derivation not required). Wave particle duality and uncertain principle-significance of these for microscopic entities. Emergence of quantum mechanics. Wave mechanics and Schroedinger wave equation.

Operator**s**-operator algebra. Commutation of operators, linear operators.Complex functions. Hermitian operators. Operators ∇ and ∇^2 . Eigenfunctions and eigenvalues. Degeneracy. Linear combination of eigenfunctions of an operator. Well behaved functions. Normalized and orthogonal functions.

Postulates of quantum mechanics. Physical interpretation of wave function. Observables and operators. Measurability of operators. Average values of observables. The time dependent Schrodinger equation. Separation of variables and the time-independent Schrodinger equation..

Theorems of quantum mechanics. Real nature of the eigen values of a Hermitian operator-significance. Orthogonal nature of the eigen values of a Hermitian operator-significance of orthogonality. Expansion of a function in terms of eigenvalues. Eigen functions of commuting operators-significance. Simultaneous measurement of properties and the uncertainty principle.

Particle in a box- one dimensional and three dimensional. Plots of ψ and ψ^2-discussion. Degeneracy of energy levels. Comparison of classical and quantum mechanical particles. Calculations using wave functions of the particle in a box-orthoganality, measurability of energy, position and momentum, average values and probabilities. Application to the spectra of conjugated molecules.

Cartesian, Polar and spherical polar coordinates and their interrelations

Schrodinger equation for the hydrogen atom- separation into three equations. Hydrogen like wave functions. Radial and angular functions. Quantum numbers n, l and m and their importance. The radial distribution functions. Hydrogen like orbitals and their representation. Polar plots, contour plots and boundary diagrams.

Many electron systems. Approximate methods. The variation method-variation theorem and its proof. Trial variation function and variation integral. Examples of variational calculations. Paricle in a box. Construction of trial function by the method of linear combinations. Variation parameters. Secular equations and secular determinant..

Bonding in molecules. Molecular orbital theory-basic ideas. Construction of MOs by LCAO , H_2^+ ion. The variationan integral for H_2^+ ion. Detailed calculation of Wave functions and energies for the bonding and antibonding MOs. Physical picture of bonding and antibonding wave functions. Energy diagram. The MO and VB wave functions for H_2 molecule and their comparision

5.Chemical Kinetics

Theories of reaction rates : Collision theory, steric factor. Tranition state theory. Reaction coordinate, activated complex and the transition state. Thermodynamic formulation of transition state theory. Unimolecular reactions and Lindamann's theory.

Complex reactions- Opposing reactions, parallel reactions and consecutive reactions(all first order type). Chain reactions-general characteristics, steady state treatment. Example- H_2-Br_2 reaction. Derivation of rate law.

Effect of structure on reactivity- Linear free energy relationships. Hammett and Taft equations- substituent(σ and σ^*) and reaction constant (ρ and ρ^*)with examples.

Factors affecting reaction rates in solution. Diffusion controlledr eactions. Influence of dielectric constant and ionic strength on ion-ion, ion-dipole and dipole-dipole reactions. Primary and secondary salt effects. Kinetic isotope effects: Primary and secondary isotope effects. Solvent isotope effects.

Enzyme catalysis: Chemical catalysis and enzyme catalysis – distinction – energy

considerations and rate accelerations – examples.

Michaelis-Menten mechanisms of enzyme catalyzed reactions involving one and two intermediates. Steady-sate approximation. Derivation of kinetic equations. Evaluation of kinetic parameters. Enzyme-substrate complex: Fischer's lock and key and Koshland's induced fit hypotheses. Specificity of enzyme-catalyzed reactions. Discussion of the various types of forces involved in the formation of E-S complex. pH dependence of enzyme-catalyzed reactions – the kinetics and the equations involved.

6. Photochemistry

Electronic transitions in molecules. The Franck Condon principle. Electronically excited molecules- singlet and triplet states. Radiative life times of excited states-theoretical treatment. Measured lifetimes. Quantum yield and its determination. Actinomety-ferrioxalate and uranyl oxalate actinometers-problems.

Derivation of fluorescence and phosphorescence quantum yields. E-type delayed fluorescence- evaluation of triplet energy splitting(ΔE_{ST}). Photophysical processes- photophysical kinetics of unimolecular reactions. Calculation of rate constants of various photophysical processes-problems, State diagrams

Photochemical primary processes. Types of photochemical reactions- electron transfer, photodissociation, addition, abstraction, oxidation and isomerization reactions with examples. Effect of light intensity on the rates of photochemical reactions. Photosensitization. Quenching- Stern Volmer equation. Experimental set up of a photochemical reaction. Introduction to fast reactions- Principle of flash photolysis

7. Solid state chemistry

Magnetic properties of solids- classification of magnetic materials, Magnetic susceptibility, Langevin diamagnetism, Weiss theory of para magnetism

Electronic properties of metals, insulators and semi conductors: Electronic structure of solids, Band theory, band structure of metals, insulators and semiconductors. Electrons, holes and Excitons. The temperature dependence of conductivity of extrinsic semi conductors. Photo conductivity and photovoltaic effect-p-n junctions.

Superconductivity. Occurrence of superconductivity. Destruction of superconductivity by magnetic fields-Meisner effect. Types of superconductors. Theories of super conductivity- BCS theory.

ORGANIC CHEMISTRY

1. IUPAC nomenclature of organic molecules including structural, positional, functional, regio- and stereoisomers.
2. Molecular representations: Wedge, Fischer, Newman and Saw-horse formulae, their description and interconversions. Stereoisomers-classification-configuration –R,S- nomenclature- Criteria for Chirality. Axially chiral allenes, spiranes, alkylidene cycloalkanes, chiral biaryls, atropisomerism. Planar chiral ansa compounds and trans- cyclooctene. Helically chiral compounds, Determination of absolute configuration by chemical correlation methods. Determination of configuration in E,Z-nomenclature: Spectral and Chemical methods of configuration determination of E,Z isomers. Determination of configuration in aldoximes and ketoximes.
3. Nature of Bonding in Organic Molecules and Aromaticity, Delocalized chemical bonding- conjugation, cross conjugation, resonance, hyperconjugation, tautomerism, Huckle's rule and the concept of aromaticity, aromaticity in benzenoid and non-benzenoid compounds, alternant and non-alternant hydrocarbons, metallocenes- Ferrocene, Azulenes, Fulvenes, Annulenes, anti-aromaticity, pseudo-aromaticity, homo-aromaticity.

4. Reactive intermediates and Molecular rearrangements. Reactive Intermediates: Generation, detection, structure, stability and reactions of carbocations, carbanions, carbenes, nitrenes and free radicals. Molecular rearrangements: Definition and classification. Molecular rearrangements involving 1) electron deficient carbon: Wagner- Meerwein, Pinacol-Pinacolone, Allylic and Wolf rearrangement. 2) electron deficient Nitrogen: Hofmann, Lossen, Curtius, Schmidt and Beckmann rearrangements 3) electron deficient Oxygen: Baeyer-Villiger oxidation. 4) Base catalyzed rearrangements: Benzilic acid, Favourski, Transannular, Sommlett-Hauser and Smiles rearrangement

5. Organic Reaction mechanism-I Electrophilic addition to carbon-carbon double bond: Stereoselective addition to carbon-carbon double bond; *anti* addition- Bromination and epoxidation followed by ring opening. *Syn* addition of OsO_4 and $KMnO_4$. Hydroboration. Michael reaction. Elimination reactions E2, E1, E1CB mechanisms. Orientation and stereoselectivity in E2 eliminations. Pyrolytic *syn* elimination and a-elimination, elimination Vs substitution. Determination of reaction mechanism: Energy profiles of addition and elimination reactions, transition states, product isolation and structure of intermediates, use of isotopes, chemical trapping, crossover experiments.

6. Importance of heterocyclic compounds as drugs. Nomenclature of heterocyclic systems based on ring size, number and nature of hetero atoms. Synthesis and reactivity of pyrrole, furan, thiophene, pyridine, indole, benzofuran, benzothiophene, quinoline, isoquinoline.

7. Alkaloids and terpenoids- Importance of natural products as drugs. Isolation of natural products by steam distillation, solvent extraction and chemical methods. Structure determination and synthesis of papaverine, nicotine and quinine-General methods in the structure determination of terpenes. Isoprene rule, structure determination and synthesis of a-terpeniol and camphor.

8. Organic Photochemistry, Photochemical energy, Frank-Condon principles, Jablonski diagram, singlet and triplet states, dissipation of photochemical energy, photosensitization, quenching, quantum efficiency and quantum yield. Photochemistry of carbonyl compounds - $n \rightarrow \pi^*$ and $\pi \rightarrow \pi^*$ transitions. Norrish type-I and Norrish type-II cleavages. Paterno-Buchi reactions, Photoreduction, photochemistry of enones - hydrogen abstraction, rearrangements of α,β-unsaturated ketones and cyclohexadienones, photochemistry of *p*-benzoquinones. Dienes - photochemistry of 1,3-butadienes, (2+2) additions leading to cage structures, photochemistry of cyclohexadienes, photochemistry of aromatic compounds, exicited state of benzene and its 1,2-, 1,4- additions

9. Pericyclic Reactions Molecular orbital symmetry, Frontier orbitals of ethylene, 1,3 butadiene, 1,3,5 hexatriene and allyl system. Classification of pericyclic reactions. Woodward - Hoffmann correlation diagrams. FMO and PMO (Mobius Huckel) approaches. Electrocyclic reactions-Conrotatory and disrotatory. 4n, 4n+2 and allyl systems. Cycloadditions-antarafacial and suprafacial additions, 4n and 4n+2 systems, 2+2 addition of ketene, 1,3 dipolar cycloadditions Sigmatropic rearrangements - Suprafacial and antarafacial shifts of H, Sigmatropic shifts involving carbon moieties, 3,3 and 5,5 sigmatropic rearrangements.
Structure determination of organic compounds by UV IR, NMR an Mass Various electronic transitions, Beer-Lambert's law, effect of solvent on electronic transitions, ultraviolet bands for carbonyl compounds, unsaturated carbonyl Compounds, dienes, conjugated polyenes, Effect of hydrogen bonding and solvent effects-NMR-Shielding mechanism, mechanism of measurement, chemical shift values, chemical exchange, complex spin-spin interaction, ^{13}C NMR spectroscopy, chemical shift-Mass spectral fragmentation of organic compounds, common functional groups, molecular-ion peak, metastable peak,

10. BOTANY

CELL AND MOLECULAR BIOLOGY OF PLANTS

Cell Wall : Structure and functions, biogenesis, growth.

Plasma membrane : Structure, models and functions : Sites for ATPases, Ion carriers, Channels and pumps, Receptors.

Plasmodesmata : Structure, Role in movement of molecules and macromolecules, Comparison with gap junctions.

Chloroplast : Structure, genome organization, gene expression, RNA editing, nucleo-chloroplastic interactions.

Mithochondria : Structure, genome organization, Biogenesis.

Plant Vacuoles : Tonoplast membrane, ATPases, transporters, as storage organelle.

Nucleus : Structure, nuclear pores, nucleosome organization, DNA structure : A, B and Z forms, replication, damage and repair, transcription, Plant promoters and transcription

factors, splicing mRNA transport, nucleolus, rRNA biosynthesis.

Ribosomes : Structure, site of protein synthesis, mechanism of translation, initiation, elongation and termination; structure and role of tRNA.

Protein sorting : Targeting of proteins to organelles.

Cell shape and motility : The cytoskeleton; organization and role of microtubules and microfilaments; motor movements; implications in flagellar and other movements.

Cell cycle and apoptosis : Control mechanisms; role of cyclins and cyclin dependent kinases; retinoblastoma and E2F proteins; cytokinesis and cell plate formation; mechanisms of programmed cell death.

Other cellular organelles : Structure and functions of microbodies, Golgi apparatus, lysosomes, endo plasmic reticulum.

Techniques in cell biology : Immuno techniques; in situ hybridization, FISH, GISH; confocal microscopy.

CYTOLOGY, GENETICS AND CYTOGENETICS

Chromatin organization : Chromosome structure and Packaging of DNA, molecular organization of centromere and telomere; nucleolus and ribosomal RNA genes ; euchromatin and heterochromatin ; karyotype analysis ; banding patterns ; specialized types of chromosomes ; polytene, lampbrush, B-chromosomes and sex chromosomes ; molecular basis of chromosome pairing.

Structural and numerical alterations in chromosomes : Duplication, deficiency, inversion and translocation ; autopolyploids ; allopolyploids ; evolution of major crop plants.

Genetics of prokaryotes and eukaryotic organelles : genetic recombination in phage ; genetic transformation, conjugation and transduction in bacteria ; genetics of mitochondria and chloroplasts cytoplasmic male sterility.

Gene structure and expression : Genetic fine structure ; cis – trans test ; Benzer's experiment; introns and their significance ; RNA splicing ; regulation of gene expression in prokaryotes and eukaryotes.

Genetic recombination and genetic mapping : Recombination ; independent assortment and crossing over ; molecular mechanism of recombination ; role of RecA and RecBCD enzymes ; site-specific recombination ; chromosome mapping, linkage groups, genetic markers, construction molecular maps.

Mutations : Spontaneous and induced mutations ; physical and chemical mutagens ; molecular basis of gene mutations ; transposable elements in prokaryotes and eukaryotes ; mutations induced transposons ; site-directed mutagenesis ; DNA damage and repair mechanisms.

Plant Breeding : Principles and methods of plant breeding ; Marker assisted breeding.

Biostatistics : Mean, Variance, Standard deviation, Standard error, Student't' test, chi-square and ANOVA.

Molecular cytogenetic : Nuclear DNA content; C-value paradox; cot curve and its significance; restriction mapping – concept and techniques ; multigene families and their evolution.

BIOLOGY AND DIVERSITY OF LOWEER PLANTS : CRYPTOGAMS

Microbiological techniques : Pure culture, enrichment and anaerobic culture.

Importance of microorganisms : Microbes in medicine, agriculture and environment.

Microbial growth : Nutritional requirements of microorganisms and methods to measure growth.

Microbial Ecology : Genetrification ; phosphorous solubilization ; nitrogen fixation

Phycology : Thallus organization ; cell ultra structure ; reproduction (vegetative, sexual, asexual) ; criteria for classification of algae : pigments, reserve food, flagella ; classification, salient features of Chlorophyta, Charophyta, Xanthophyta, Bacillariophyta, Phaeophyta and Rhodophyta ; algal blooms, algal biofertilizers ; algae as food, feed and uses in industry.

Mycology : General characters of fungi ; substrate relationship in fungi ; cell ultrastructure ; unicellular and multicellular organization ; cell wall composition ; nutrition (saprobic, biotropic, symbiotic) ; reproduction (vegetative, asexual, sexual) ; heterothallism ; heterokaryosis parasexuality ; Molecular aspects in classification.

General account of Mastigomycotina, Zygomycotina, Ascomycotina, Basidiomycotina, Deuteromycotina ; fungi in industry, medicine and as food ; fungal diseases in plants and humans ; Mycorrhizae ; fungi as biocontrol agents.

Bryophyta : Morphology, structure, reproduction and life history ; distribution ; classification, general account of Marchantiales, Junger maniales, Anthoceratales, Sphagnales, Funariales and Polytrcales ; economic and ecological importance.

Pteridophyta : Morphology, anatomy and reproduction ; classification ; evolution of stele ; heterospory and origin of seed habit; general account of fossil pteriodophyta ; introduction to Psilo psida, Lycopsida, Sphenopsida and Pteropsida.

TAXONOMY AND DIVERSITY OF SEED PLANTS

Introduction and classification of Gymnosperms

Structure and reproduction in Cycadales, Ginkgoales, Coniferales, Ephedrales, Welwitschiales and Gnetales.

The species concept: Taxonomic hierarchy, species, genus, family and other categories ; principles used in assessing relationship, delimitation of taxa and attribution of rank.

Salient features of the International Code of Botanical nomenclature.

Taxonomic tools : Herbarium ; floras ; histological, cytological, phytochemical, serological, biochemical and molecular techniques ; computers and GIS.

Systems of angiosperm classification : Phenetic versus phylogenetic systems ; cladistics in taxonomy ; relative merits and demerits of major systems of classification.

Concepts of phytogeography : Endemism, hotspots; plant explorations; invasions and introductions.

PLANT PHYSIOLOGY AND METABOLISM

Energy flow : Principles of thermodynamics, free energy and chemical potential, redox reactions, structure and functions of ATP.

Fundamentals of enzymology : General aspects, allosteric mechanism, regulatory and active sites, isoenzymes, kinetics of enzymatic catalysis, Michaelis – Menton equation and its significance.

Membrane transport and translocation of water and solutes : Plant water relations, mechanism of water transport through xylem, passive and active solute transport, membrane transport proteins.

Signal transduction: Receptors and G-proteins, phospholipid signaling, role of cyclic nucleotides, calcium calmodulin cascade, diversity in protein kinases and phosphatases.

Photochemistry and photosynthesis : Photosynthetic pigments and light harvesting complexes, photo oxidation of water, mechanisms of electron and proton transport, carbon assimilation – the Calvin cycle, photorespiration and its significance, the C_4 cycle, the CAM pathway, biosynthesis of starch and sucrose.

Respiration and lipid metabolism : Glycolysis, the TCA cycle, electron transport and ATP synthesis, pentose phosphate pathway, glyoxylate cycle, alternative oxidase system,

structure and function of lipids, fatty acid biosynthesis, synthesis of membrane lipids, structural lipids and storage lipids and their catabolism.

Nitrogen fixation and metabolism : Biological nitrogen fixation, nodule formation and nod factors, mechanism of nitrate uptake and reduction, ammonium assimilation.

Photobiology : Photochromes and cryptochromes, photophysiology of light –induce responses, cellular localization.

Plant growth regulators and elicitors : Physiological effects and mechanism of action of auxins, gibberellins, cytokinins, ethylene, abscisic acid, brassinosteroids, polymines, jasmonic acid and salicyclic acid.

The flowering process : Photoperiodism, endogenous clock and its regulation, floral induction and development – genetic and molecular analysis, role of vernalization.

Stress physiology : Plant responses to biotic and abiotic stress; mechanisms of biotic and abiotic stress tolerance, HR and SAR, water deficit and drought resistance, salinity stress, metal toxicity, freezing and heat stress, oxidative stress.

Coping with biotic stress : Chemical control, Biological control, IPM

PLANT DEVELOPMENT AND REPRODUCTION

Shoot development : Organization of the shoot apical meristem (SAM); control of cell division and cell to cell communication; control of tissue differentiation especially xylem and phloem ; secretory ducts and laticifers.

Phyllotaxy and leaf differentiation

Root development : Organization of root apical meristem (RAM); cell fates and lineages; vascular tissue differentiation; homeotic muntants in Arabidopsis and Antirrhinum, sex determination.

Male gametophyte: Structure of anthers; microsporogenesis, role of tapetum; pollen development and gene expression; male sterility; sperm dimorphism and hybrid seed production; pollen germination, pollen tube growth and guidance ; pollen storage ; pollen allergy, pollen embryos.

Female gametophyte: Ovule development; megasporogenesis; organization of the embryo sac, structure of the embryo sac cells.

Pollination, pollen – pistil interaction and fertilization : Floral characteristics, pollination mechanisms and vectors; self-incompatibility; double fertilization.

Seed development and fruit growth: Endosperm development during early, maturation and desiccation stages; embryogenesis, cell lineages during late embryo development; storage proteins of endosperm and embryo; polyembryony; apomixes; embryo culture; fruit maturation.

Dormancy: Seed dormancy; overcoming seed dormancy; bud dormancy.

Senescence and programmed cell death (PCD): Types of cell death, PCD in the life cycle of plants, metabolic changes associated with senescence and its regulation; influence of hormones and environmental factors on senescence.

PLANT ECOLOGY

Climate, soil and vegetation patterns of the world: Life zones; major biomes and major vegetation and sol types of the world.

Vegetation organization: Concepts of community and continuum ; analysis of communities(analytical and synthetic characters)

Ecological succession: Hydrosere and xerosere.

Ecosystem organization: Structure and functions; primary production (methods of measurement, global pattern, controlling factors); energy dynamics (trophic organization,

energy flow Pathways, ecological efficiencies); litter fall and decomposition (mechanism, substrate quality land climatic factors); global biogeochemical cycles of C,N,P and S; mineral cycles (pathways, processes, budgets) in terrestrial and aquatic ecosystems.

Biological diversity: Concept and levels; role of biodiversity in ecosystem functions and stability ; speciation and extinction; IUCN categories of threat; distribution and global patterns, terrestrial biodiversity hot spots; inventory.

Air, water and soil pollution: Kinds, sources, quality parameters; effects on plants ecosystems.

Climate change: Green house gases (CO_2, CH_4, N_2O, CFCs: sources, trends and role); ozone layer and ozone hole ; consequences of climate change (CO_2 fertilization, global warming, sea level rise, UV radiation).

Ecosystem stability : Concept (resistance and resilience); ecological perturbations (natural and anthropogenic) and their impact on plants and ecosystems ; ecology of plant invasion ; environmental impact assessment ; ecosystem restoration.

Ecological management : Concepts; sustainable development; sustainability indicators.

PLANT RESOURCE UTILIZATION AND CONSERVATION

Plant Biodiversity and sustainable development

Origin, evolution, botany, cultivation and uses of (i) Food forage and fodder crops (ii) fibre crops (iii) medicinal and aromatic plants and (iv) vegetable oil-yielding crops. Ethnobotany

Important fire-wood and timber – yielding plants and non-wood forest products (NWFPs) such as bamboos, rattans, raw materials for paper-making, gums, tannins, dyes, resins and fruits.

Green revolution : Benefits and adverse consequences.

Plants used as avenue trees for shade, pollution control and aesthetics.

Principles of conservation; extinctions; environmental status of plants based on International Union for Conservation of Nature.

Strategies for conservation – in situ conservation : International efforts and Indian initiatives ; protected areas in India – sanctuaries, national parks, biosphere reserves, wetlands, mangroves and coral reefs for conservation of wild biodiversity.

Strategies for conservation – ex situ conservation : Principles and practices; botanical gardens, field gene banks, seed banks, in vitro repositories, cryobanks; general account of the activities of Botanical Survey of India (BSI), National Bureau of Plant Genetic Resources (NBPGR), Indian Council of Agricultural Research (ICAR), Council of Scientific and Industrial Research (CSIR) and the Department of Biotechnology (DBT) for conservation, non-formal conservation efforts.

BIOTECHNOLOGY AND GENETIC ENGINEERING OF PLANTS AND MICROBES

Plant Biotechnology – Principles, scope and applications.

Plant cell and tissue culture : General introduction, scope, cellular differentiation, and totipotency.

Organogenesis and adventives embryogenesis : Morphogenesis; somatic embryogenesis.

Somatic hybridization : Protoplast isolation, fusion and culture.

Applications of plant tissue culture : Clonal propagation, artificial seed, production of hybrids and soma clones, production of secondary metabolites / natural products, cryopreservation and germplasm storage.

Recombinant DNA technology : Gene cloning principles and techniques, genomic / c DNA libraries, vectors, DNA synthesis and sequencing, polymerase chain reaction, DNA fingerprinting and DNA markers.

Genetic engineering of plants : Transgenic plants, Methods of gene transfer – *Agrobacterium* – medicated and microprojectile, chloroplast transformation, intellectual property rights, ecological risks and ethical concerns.

Microbial genetic manipulation : Bacterial transformation, selection of recombinants and transformants, genetic improvement of industrial microbes.

Genomics and proteomics : High throughput sequencing, genome projects, bioinformatics, functional genomics, microarrays.

11. ZOOLOGY

General Concepts :

1. Levels of structural organization :
   Unicellular, colonial and multicellular forms. Prokaryotic and Eukaryotic cells. Levels of organization of tissues, organs & systems.
2. Acoelomata, Pseudocoelomata, Coelomata, Proterostomia and Dueterostornia.
3. Concepts of species and hierarchical taxa, biological nomenclature, classical methods of taxonomy of animals.

Non-Chordata :

1. General characteristics and classification of invertebrates up to class level.
2. Protozoa: Locomotion, Nutrition and Reproduction in protozoa, Protozoan diseases of man.
3. Porifera: Canal system in porifera, skeleton in porifera, Reproduction in sponges.
4. Coelenterata : Polymorphism, Metagenesis, coral formation,Etenophora.
5. Hemlinths: Common Helminthic parasites of Man – *Taenia solium, Schistosoma sp., Ascaris, Ancylostoma, Oxyuris, Loa, Trichinella, Strongyloides* – their life cycles. Parasitism and parasitic adaptations.
6. Annelida: Excretory system, Coelom formation, coelom and coelomoducts.
7. Arthropoda: Mouthparts of Insects, useful and harmful insects, Metamorphosis in insects. Apiculture and sericulture in India, crustacean larvae.
8. Mollusca: Respiritation, Torsion and De-torsion, pearl formation and Pearl industry.
9. Echinodermata: Echinoderm larvae, Water vascular system.

CHORDATA :

1. General Characters and classification of chordates upto class, Origin of Chordates, phylogeny and affinities of Hemichordata, Retrogressive metamorphosis.
2. Vertebrate integument and derivatives, Comparative account of Digestive, Respiratory, Circulatory, Excretory and Reproductive systems of Vertebrates.
3. Pisciculture in India, Common edible fishes of Andhra Pradesh.
4. Origin and evolution of Amphibia, Paedogenesis, Neotony.
5. Important Snakes of India, Dinosaurs.
6. Flight adaptations and Migration in birds. Archeopteryx, Poultry in India.
7. Adaptive radiation and Dentition in Mammals.

CELL BIOLOGY :

1. Prokaryotic and Eukaryotic cell, Plasma Membrane-Ultrastructure, Permeability, intercellular communication, Endocytosis, Exocytosis, Phagocytosis, Active transport, membrane pumps.
2. Structure & function of Intracellular organelles – Nucleus, Mitochondria, Golgi bodies, lysosomes, endoplasmic reticulum, peroxisomes, plastids, vacuoles, Cell wall, Cytoskeleton and its role in motility.
3. Organization of genes and chromosomes - Operon, unique and repetitive DNA, structure of chromatin and chromosomes, heterochromatin, euchromatin, transposons.
4 Cell division and cell cycle - Mitosis and meiosis, their regulation, steps in cell cycle, regulation and control of cell cycle.
5. DNA replication, repair and recombination - Unit of replication, replication origin and replication fork, Recombinant technology, Transgenic and cloned animals, DNA damage and repair mechanisms.
6. Protein synthesis - initiation, elongation and termination of Genetic code.
7. Regulation of gene expression - Lac operon, Lambda operan.

GENETICS :

1. Mendel's law of inheritance - Critical review and Linkage.
2. Gene mapping methods : Linkage-complete and Incomplete linkage; Linkage maps, Recombination, mapping with molecular markers, somatic cell hybrids.
3. Crossing over : Types (Somatic or mitotic crossing over and Germinal or meiotic crossing over), theories about the mechanism of crossing over, tetrad analysis, and cytological detection of crossing over.
4. Mutations : Types (Spontaneous and Induced), causes and detection, mutant types (lethal, conditional, biochemical, loss of function, gain of function, germinal versus somatic mutants), Molecular basis of mutations.
5. Chromosomal aberrations (deletion, duplication, inversion and translocation, ploidy and their genetic implications); Autosomal abnormalities (Down's syndrome, Trisomy-13, -18); Sex anamolies (Turner's syndrome, Klinefelter's syndrome, Hermaphroditism).
6. Human genetics : Human karyotyping, Genetic disorders due to mutant genes (Huntington's chorea), Inborn errors of metabolism-Pheynylketonuria, alkaptonuria, Sickle cell anemia.

SYSTEM AND CELL PHYSIOLOGY :

1. Blood and circulation - Blood corpuscles, haemopoiesis, plasma function, blood groups, haemoglobin, haemostasis.
2. Cardiovascular System : Neurogenic, myogenic hearts, cardiac cycle, heart as a pump, neural and chemical regulation of all above.
3. Respiratory system - Transport of gases, exchange of gases, waste elimination, neural and chemical regulation of respiration.
4. Nervous system - Neurons, action potential, Conduction of nerve impulse, synapse, Neurotransmitters.
5. Muscle : Ultraa structure and mechanism of muscle contraction.
6. Sense organs – Eye, Ear.
7. Excretory system - Comparative physiology of excretion, urine formation, micturition.
8. Osmaregulation – Osmoregulation in fishes, Hormonal control of osmoregulation.
9. Digestive system - Digestion, absorption, assimilation and egestion.
10. Endocrinology and reproduction - Endocrine glands, basic mechanism of hormone action, hormones and diseases, reproduction in mammals.
11. Chemical bonds (Covalent, Hydrogen and Ionic bonds, Van der waals interactions).
12. Outline classification of organic compounds (carbohydrates, proteins and lipids).
13. Order of protein structure, primary, secondary, tertiary and quaternary; Ramachandran plot.
14. Glycolysis, TCA cycle and their Biomedical importance. Pentose phosphate pathway, Gluconeogenesis. Redox Potentials, Mitochondrial electron transport system, Oxidative phosphorylation.

EVOLUTION :

1. Origin of life - Modern concepts, theories of Evolution.
2. Isolation, Speciation, Natural Selection.
3. Hardy weinberg' Law.
4. Population Genetics (Gene pool, Gene frequency), Genetic drift and convergent evolution, Adaptive radiation.
5. Evolution of Man.
6. Zoogeographical realms of the world.

DEVELOPMENTAL BIOLOGY :

1. Speamatogenesis, oogenesis.
2. Fertilization, cleavage, gastrulation formation of germ layers, parthenogenesis.
3. Embryogenesis in vertebrates.
4. Formation and function of foetal membranes.
5. Types of Placenta.
6. Regualtion, genetic control of development.
7. Development of Frog and chick.

HISTOLOGY :

1. Histology of Mammalian tissues and organs - Epithelial, connective, blood, bone, cartilage, skin, stomach, intestine, liver, pancreas, kidney, Testis and Ovary.

ECOLOGY :

1. Concept of Ecosystem.
2. Biogeochemical cycles (Carbon, Nitrogen and Phosphorous).
3. Influence of environmental factors on animals, energy flow in Ecosystem, food chains, food web and trophic levels.
4. Community and population ecology. Ecological succession.
5. Environmental pollution-Air, water, land, noise, radioactive, thermal and visual, effects of pollution on ecosystem, prevention of pollution.
6. Wildlife in India-conservation, Chipko movement.
7. Biodiversity-Economic significance, conservation, hot spots of India.

IMMUNOLOGY :

1. Cells of the immune system : Lymphoid cells, Mononuclear cells, granulocytic cells, Mast cells.
2. Organs of the immune system - primary and secondary lymphoid organs, lymphatic system.
3. Antigens: Antigenic determinants or epitopes, immunogenicity, Haptens.
4. Innate (Non-specific immunity): Anatomical barriers, phagocytosis, NK cells, interferon.
5. Humoral immunity: Immunoglobulins (fine structure of immunoglobulins and immunoglobulin classes); the complement system, Classical and alternate pathway, inflammation.
6. Cell mediated immunity : Mechanism of cell mediated immunity; Brief account on Antigen presentation, Major histocompatability complex.
7. Antigen-Antibody interactions : Affinity, Avidity, Cross-reactivity, precipitation reactions, and Agglutination reactions and ELISA.
8. Brief account on immunological Hypersensitivity disorders :

   a) Tolerance and Autoimmunity
   b) Transplantation.
   c) Immunodeficiency diseases - HIV.
   d) Immunization (Active and passive immunity).

12.COMMERCE

Financial management : Meaning, nature, objectives and scope of financial management. Capital budgeting, process, techniques. Sources of finance. Cost of capital – cost of various sources of finance. Leverages – operating and financial leverages. Capital structure theories. Dividend decisions Working .capital management- cash, receivables and inventory management.

Financial and management accounting : Techniques of analysis of financial statements – comparative and common size statements, trend analysis and ratio analysis. Funds flow and cash flow analyses. Marginal costing and decision making.

Managerial economics : Meaning, nature and scope of managerial economics. Demand analysis. Production and cost analysis. Market structure – perfect and imperfect markets.

Business environment : Meaning and components of business environment. Industrial policies 1956, and 1991. Liberalization, privatization and globalization. WTO.

Marketing management : Meaning, concepts, nature, and scope of marketing management – Marketing environment. Consumer behavior and market segmentation. Product, Price, Promotion and Channel management.

Human resources management : HR functions. HR planning – job analysis, recruitment and job evaluation, Training and development methods. Performance appraisal methods. Trade unions and collective bargaining.

Quantitative techniques: Sampling and sampling methods. Probability and probability distributions – Hypothesis testing. Parametric tests (Z, t-tests, and ANOVA) and non-parametric tests (Chi-square test).

IT and e-commerce : E-Commerce business models – Internet and web technologies. E-payment methods – e-cash, e-cheques, credit cards, smart cards, and debit cards.

13.ECONOMICS

1. Microeconomic Analysis

Demand analysis – Marshallian, Hicksian and Revealed preference approaches; axiomatic approach Theory of Production and Costs Pricing and output under different forms of market structure; collusive and non-collusive oligopolies. Factor Pricing analysis. Elements of General Equilibrium analysis and new welfare economics.

2. Macroeconomic Analysis

National income accounting – basic concepts. methods of estimation. Determination of output and employment – Classical approach, Keynesian approach. Real balance effect – Patinkin and Pigou. Theories of inflation. Phillips Curve analysis. Business cycles – Models of Samuelson, Hicks and Kaldor. IS-LM Analysis - Relative roles of monetary and fiscal policies. Mundell-Fleming open economy model. Rational expectations; new classical / tenets.

3. Development and Growth

Development and Growth – Role of institutions.
Theories of growth and development – Models of growth of Joan Robinson and Kaldor; Technical Progress – Hicks, Harrod and learning by doing, production function approach to the determinants of growth ; Endogenous growth : role of education, research and knowledge – explanation of cross country differentials in economic development and growth.
Theories of development – Classical, Marx, Schumpeter and structural analysis of development – Imperfect market paradigm, Lewis model of development, Ranis-Fei model, Dependency theory of development.
Factors in economic development – natural resources, population, capital, human resource development – Measurement of development – Conventional, HDI and Quality of Life indices.
Trade and development – trade as engine of growth, two-gap analysis, Prebisch, Singer and Myrdal views; gains from trade and LDCs.

4. Money and Banking

Definition and functions of money; empirical definition of money – monetary aggregates; monetarism; demand for money – Fisher, Cambridge, Keynesian, Friedman, Baumol and Tobin; supply of money – determinants; money multiplier. Role and functions of Central bank; NBFIs; instruments of monetary control; stabilization polices; monetary and interest rate targetting.
Social responsibility of banks; banking sector reforms, Basel I and II; deregulation, competition and efficiency; NPAs. Specialized financial and investment institutions.

5. Public Finance

Role of government in a mixed economy – allocation, distribution and stabilization. Private, public and merit goods. Theories of Social choice. Theories of taxation, types, incidence and effects. Theories of public expenditure – effects on savings, investment and growth Burden of public debt; Wagner and Peacock – Wiseman hypotheses. Union Finance – Trends in Revenue and Expenditure of the Government of India. State Finance – Trends in Revenue and Expenditure of the State Governments. Public Debt – Effects and Burden and Management of public debt. Government Budget – Forms of Budgeting, Zero based budgeting, Different Budget deficits. Fiscal Federalism – Horizontal and vertical imbalances; methods of fiscal adjustment.

6. International Trade and Finance

Theories of International Trade : Empirical verification and relevance. International Trade under Imperfect competition. Terms of Trade and Economic Growth – Secular Deterioration of Terms of Trade Hypothesis – a critical review. Equilibrium / disequilibrium in Balance of Payment – Traditional, Absorption and monetary approaches to adjustment in Balance of Payments. Impact of Tariffs on Partial and general equilibrium analysis; Political economy of Non-Tariff Barriers. Theory of regionalism at Global level – Trade blocks – SAARC and ASEAN. Trade Policy and Reforms in India. Optimum currency areas – Euro - ERM

7. Indian Economy :

Basic features of Indian economy; growth and structural changes – composition and trends in National Income.

Demography – Demographic features; demographic transition and demographic dividend; rural urban migration and rural urban divide.

Planning : Objectives and strategies of planning; and achievements of programmes for poverty alleviation and regional imbalances.

Agriculture : Land reforms and New Green Revolution – Role of technology; regional disparities in Indian agriculture; Pricing Policy; Food subsidy and Public distribution system.

Industry : Industrial growth and Productivity – New industrial policy; Privatisation, Disinvestment – FDI and role of MNCs. SMEs and industrial development.

Public Finance : Composition and growth of public expenditure and debt; Fiscal reforms and rationalization of subsidies; Centre – State financial relations.

WTO and its impact on Indian economy; Energy and Environment: Energy Security; Environmental Policy of Government of India, Rationale of Social Forestry.

8. **QUANTITATIVE METHODS** :

a. **Statistical Methods**

Measures of Central tendency, dispersion, skewness and kurtosis

Fundamentals of probability – Binomial, Poisson and Normal distributions. Simple correlation and regression analysis

Statistical inferences – Applications, sampling distributions (t, Chi-square and F tests), Sampling of attributes, testing of hypothesis Index numbers and time series analysis Sampling and census methods, types of sampling and errors.

b. Econometric Methods :

i) Single Equation Linear Model :

Assumption and properties of OLS

Multiple Regression Model – Estimation and Interpretation

Multi-collinearity, auto-correlation and heteroscedasticity – Causes, detection, consequences and remedy.

Dummy variables, distributed lags – need, limitations and interpretation

Applications in economics.

ii) Simultaneous Equation Models :

Structural and reduced forms, Endogenous and exogenous variables, Identification problems and conditions.

Single equation methods of estimations – two stage least squares, indirect least squares, and least variance ratio.

c. Time Series Models

Auto-regressive (AR), moving average (MA) and mixed processes (ARMA, ARIMA)

Concepts of unit root, integration and cointegration, random walks.

d. Mathematical Methods

i) Principles of optimization : maxima and minima of functions of a single variable.

ii) Basic concepts of Game Theory – Two-person, Zero-sum Game, Pure and Mixed strategy, Saddle point solution, Linear programming and input output analysis.

14. CIVICS

Common Syllabus: Public Policy and Research Methodology

I. (A) Public Policy

a) Nature, Scope and Importance of Public Policy, Public Policy as a Policy Science.

b) Theories / Models : Systems, Structural – Functional Incremental, Elite, Group, Rational Comprehensive.

c) Public Policy Making: Legislature, Executive Judiciary, Bureaucracy, Political Parties, Pressure Groups, NGOs

d) Policy Evaluation & Impact: Constraints.

I. (B) Research Methodology

a) Methods of Enquiry: Traditional and Scientific Methods, Objectivity in Social Science Research

b) Types of Research Design

c) Hypothesis

d) Methods of Data Collection: Library, Interview, Observation

e) Data Processing, Report Writing.

II. Public Administration

a) Definition, Meaning, Nature, Scope and Importance of Public Administration

b) Evolution of Public Administration Theories: Classical, Human Relations and System Approach

c) Union Government: President, Prime Minister and Council of Ministers, Parliament, Judiciary

d) State Government: Governor, Chief Minister and Council of Ministers, State Legislative, Judiciary (High Court and Subordinate Court)

e) Local Government: Panchayati Raj Institutions, Gram Panchayat, Mandal Parishad, Zilla Parishad

f) Impact of 73rd and 74th Constitutional Amendments on Panchayati Raj Institutions

III. Political Science

a) Definition, Meaning, Nature, Scope and Importance of Political Science

b) State : Essential Elements : Theories of Origin of State

c) Sphere of State Activity : Laissez Fair, Welfare, Fascist, Anarchist, Socialist, Marxist

d) Basic Concepts : Law, Liberty, Equality, Justice and Rights

e) Forms of Government : Unitary, Federal, Presidential and Parliamentary

f) Theory of Separation of Powers

g) India's Foreign Policy – Determinants and Features, Non-Alignment and U.N.O.

15. HISTORY

Ancient India :

1. Pre and protohistoric background – Stone ages and Chalcolithic cultures.

2. Harappan Civilization – Exten, major cities, characteristic features, social and economic conditions, script, religious practices, causes for the decline.

3. Iron Age – Aryan migration – Second urbanization.

4. Vedic Age : Importance literature, Political, Social and economic conditions in the early and later vedic age.

5. India in the 6th century B.C. : Political, Social and economic conditions, Rise and spread of Jainism and Buddhism.

6. Mauryan Age : Political history of the Mauryans, Ashoka, Mauryan Administration, social and economic conditions, decline of the Mauryan empire.

7. The Satavahanas : Political history, administration, contribution to the culture.

8. Gupta Period : Political history, administration, social and economic conditions, growth of culture, decline of the empire.

9. India in the 7th century A.D. : Harsha Vardhana, Pallavas and Chalukyas, Rashtrakutas their political history and their contribution to culture.

Medieval India:

10. India between 650 and 1200 A.D. – Political, social and economic conditions, Chola administration and culture.

11. Age of the Delhi Sultanate : (1206-1526), Political history, Military and Administrative organisation, changes in society and economy, Bhakti movement.

12. The Vijayanagar Empire : Origin, History, Krishnadevaraya, social and economic conditions, contribution to art and architecture, decline.

13. Mughal Age (1556-1707) : Political history, Akbar, Administration, Social and economic conditions, culture, decline of the Mauryan empire, Marattas and Shivaji.

Modern India (1757-1947) :

14. Historical forces and factors which led to the establishment of the British power in India – Early resistance to the British power in India – Hyder Ali, Tippu Sultan, causes for their failure.

15. Evolution of British paramountacy in India : Policies of Wellesley and Dalhousie – Economic policies of the British.

16. Socio-religious reform movements – Rajaram Mohan Roy, Dayananda Saraswathi and others – Educational policies of the British and their impact on Indian society.

17. Revolt of 1857: Causes, results, significance.

18. Rise and growth of the Indian National Movement : Birth of the Indian National Congress, the national movement from 1885 to 1905; movement from 1905 to 1920. Role of Tilak and Annie Besant :The movement from 1920 to 1947 ; Emergence of Gandhi; Non-cooperation movement, Salt Satyagraha and the Quit India Movement.

    Freedom movement in Andhra Pradesh with special reference to the role of Alluri Sitarama Raju and Tanguturi Prakasam, Revolt against the nizam's rule in Telangana.

Modern World :

19. Industrial Revolution – Significance and results.

20. American War of Independence – course, results, significance.

21. French Revolution – course, effects, significance.

22. National liberation movements in Italy and Germany in the 19th century – Mazzini, Cavour, Garibaldi, Bismarck.

23. World War-I – Causes and effects.

24. The Russian Revolution of 1917 – Causes, results and importance.

25. The World between the two world wars – Nazism in Germany, Fascism in Italy, Turkey under Mustafa Kamal Pasha.

26. Developments in China 1911-1949 – Nationalist Revolution of 1911 – Communist Revolution of 1948.

27. World War-II – Causes and effects.

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Annexure-III

INSTRUCTIONS TO CANDIDATES

A. INSTRUCTIONS TO CANDIDATES:

A.1. The applicants are required to go through the user guide and satisfy themselves as to their eligibility for this recruitment carefully before applying and enter the particulars completely online.

A.2. Applicant must compulsorily fill-up all relevant columns of application and submit application through website only. The particulars made available in the website will be processed through computer and the eligibility decided in terms of notification and confirmed accordingly.

A.3. The applications received online in the prescribed proforma available in the website and within the time shall only be considered and the Commission will not be held responsible for any kind of delay/discrepancy on part of the candidate.

A.4. Applicants must compulsorily upload his/her own scanned photo and signature through .jpg format.

A.5. The applicants should not furnish any particulars that are false, tampered, fabricated or suppress any material information while making an application through website.

A.6. Important:-Hand written/typed/Photostat copies/printed application form will not be entertained.

A.7. The applicant shall produce all the essential certificates issued by the competent authority, for verification by the commission, as and when called for. If candidates fail to produce the same, his/her candidature shall be rejected / disqualified without any further correspondence.

A.8. The following certificate formats are available on the Commission's Website (https://psc.ap.gov.in) for reference.

A.8.1. Community, Nativity and Date of Birth Certificate

A.8.2. Declaration by the Un-Employed

A.8.3. School Study Certificate

A.8.4. Certificate of Residence

A.8.5. Medical Certificate for the Blind

A.8.6. Certificate of Hearing Disability and Hearing Assessment

A.8.7. Medical Certificate in respect of Orthopedically Handicapped Candidates

A.8.8. Creamy Layer Certificate

A.8.9. Local status certificate (if applicable)

B. INSTRUCTIONS REGARDING OFF-LINE EXAMINATION FOR CANDIDATES (if Screening test is held):

B.1. The candidates should go through the instructions given on the cover page of test booklet and carefully write his/her Registration Number, Subject / Subject Code, Booklet Series, Name of the Examination Centre etc., in the Answer Sheet, which will be provided to him/her in the examination hall.

B.2. Since the answer sheets are to be scanned (valued) with Optical Mark Scanner system, the candidates have to USE BALL POINT PEN (BLUE or BLACK) ONLY FOR MARKING THE ANSWERS. The candidates will be supplied OMR Sheet consisting of two copies i.e., the Original Copy (Top Sheet) and Duplicate Copy (Bottom Sheet). The candidate is required to use Ball Point Pen (Blue or Black) for filling the relevant blocks in the OMR Sheet including bubbling the answers. After writing the examination the candidate has to handover the original OMR sheet (Top Sheet) to the invigilator in the examination hall. If any candidate takes away the original OMR Sheet (Top Sheet) his/her candidature will be rejected.
However the candidate is permitted to take away the duplicate (Bottom Sheet) OMR Sheet for his/her record. The candidates should bring Ball Point Pen (Blue or Black and smooth writing pad) to fill up relevant columns on the Answer Sheet. The candidate must ensure encoding the Registration Number, Subject/Subject Code, Booklet Series correctly, write the Name of the Examination Centre, appending Signatures of the Candidate and Invigilator, etc., on the O.M.R. Answer sheet correctly, failing which the Answer sheet will not be valued. Use of whitener / correcting fluid / Blade / Powder/ Eraser / folding / Tearing / Rough Work or any

kind of tampering to change the answers on OMR Sheet will lead to disqualification / invalidation / rejection. No correspondence whatsoever will be entertained from the candidates in this regard.

B.3. The OMR Sheet is to be bubbled by Ball Point Pen (Blue or Black) only. Bubbling by Pencil / Ink Pen / Gel Pen is not permitted in this examination. Any kind of tampering to change the answers on the OMR Sheet will lead to disqualification / invalidation / rejection. No correspondence whatsoever will be entertained from the candidates in this regard.

C. INSTRUCTIONS REGARDING ON-LINE EXAMINATION FOR CANDIDATES:

C.1. The candidates should take their seats at the prescribed time before the commencement of the examination. Biometric identification would be conducted before entry into examination hall. The entry time would be mentioned in the hall ticket. Late entry after the given entry time would not be allowed. Candidates should not leave the examination hall till the expiry of fulltime. Loaning and interchanging of articles among the candidates is not permitted in the examination hall. Electronic devices including cell phones and pagers are not allowed in the examination hall.

C.2. The starting time of each examination paper and the entry time would be mentioned in the hall ticket

C.3. Candidates will not be permitted to leave the examination hall till the expiry of full time. If any candidate leaves the examination hall in the middle, he would be disqualified. If there is any problem with computer system, the candidates have to wait without talking to others till the system is restored. In case of any violation, the candidate will be disqualified.

C.4. The examination link with the login screen will already be available on your system. Please inform the invigilator if this is not the case.

C.5. 10 minutes prior to the exam, you'll be prompted to login. Please type the Login ID (Roll No) and the Password (Password for Candidate will be given on exam day) to proceed further.

C.6. Invigilator will announce the password 15 minutes before commencement of the Examination.

C.7. Copying or noting down questions and/or options is not allowed. Severe action will be taken if any candidate is found noting down the questions and/or options.

C.8. After logging in, your screen will display:

*Profile Information - Check the details & click on "I Confirm" or "I Deny".

*Detailed exam instructions - Please read and understand thoroughly.

*Please click on the "I am ready to Begin" button, after reading the instructions.

C.9. You have to use the mouse to answer the multiple choice type questions with FOUR alternative answers.

C.10. To answer any numerical answer type question, you need to use the virtual numeric key pad and the mouse.

C.11. On the online exam question screen, the timer will display the balance time remaining for the completion of exam.

C.12. The question numbers are color coordinated and of different shapes based on the process of recording your response: White (Square) - For un-attempted questions. Red (Inverted Pentagon) - For unanswered questions. Green (Pentagon) - For attempted questions. Violet (Circle) - Question marked by candidate for review, to be answered later. Violet (Circle with a Tick mark) - Question answered and marked by candidate for review.

C.13. After answering a question, click the SAVE & NEXT button to save your response and move onto the next question.

C.14. Click on Mark for Review & NEXT to mark your question for review, and then go to the next question.

C.15. To clear any answer chosen for a particular question, please click on the CLEAR RESPONSE button.

C.16. A summary of each section, (i.e. questions answered, not answered, marked for review) is available for each section. You have to place the cursor over the section name for this summary.

C.17. In case you wish to view a larger font size, please inform the Invigilator. On the

Invigilator's confirmation, click on the font size you wish to select. The font size will be visible on the top.

C.18. You may view INSTRUCTIONS at any point of time during exam, by clicking on the INSTRUCTIONS button on your screen.

C.19. The SUBMIT button will be activated after 150 Minutes. Please keep checking the timer on your screen.

C.20. In case of automatic or manual log out, all your attempted responses will be saved. Also, the exam will start from the time where it had stopped.

C.21. You will be provided a blank sheet for rough work. Do write your Login ID and Password on it. Please ensure that you return it to the invigilator at the end of the exam after tearing only the password from it.

C.22. Please don't touch the key board as your exam ID will get locked. If your ID gets locked, please inform a nearby invigilator who will help in unlocking your ID and then you can continue with the exam.

C.23. Please inform the invigilator in case of any technical issues.

C.24. Please do not talk to or disturb other candidates.

C.25. In case you are carrying articles other than the admit card, photo identity proof and pen, please leave them outside the exam room.

C.26. You cannot leave exam room before submitting the paper. Please inform the invigilator if you want to use the wash room.

D. <u>GENERAL INSTRUCTIONS TO CANDIDATES:</u>

D.1. If the candidate notices any discrepancy printed on the Hall ticket, as to community, date of birth etc., he/she may immediately bring it to the notice of Commission's officials/Chief Superintendent in the examination centre and necessary corrections can be made in the Nominal Roll, in the Examination Hall against his/her Hall Ticket Number for being verified by the Commission's Office.

D.2. The candidate should satisfy the Invigilator of his/her identity with reference to the signature and photographs available on the Nominal Rolls and Hall Ticket.

D.3. The candidates should take their seats at the given time before the commencement of the examination and are not to be allowed after the scheduled time. The time of Examination and entry time would be mentioned in the hall ticket. Late entry after the given entry time would not be allowed. Candidates should not leave the examination hall till the expiry of fulltime.

D.4. The candidates must note that his/her admission to the examination is strictly provisional. The mere fact that an Admission to the examination does not imply that his/her candidature has been finally cleared by the Commission or that the entries made by the candidate in his/her application have been accepted by the Commission as true and correct. The candidates have to be found suitable after verification of original certificates; and other eligibility criteria. The Applicants have to upload his/her scanned recent colour passport photo and signature to the Application Form. Failure to produce the same photograph, if required, at the time of interview/ verification, may lead to disqualification. Hence the candidates are advised not to change their appearance till the recruitment process is complete.

D.5. The candidates are not allowed to bring any Electronic devices such as mobile / cell phones, programmable calculators, tablets, iPad, Bluetooth, pagers, watches or any other computing devices to examination Hall. Non programmable calculators would be permitted, wherever necessary. Loaning and interchanging of articles among the candidates is not permitted in the examination hall and any form of malpractice will not be permitted in the exam hall.

D.6. The candidates are expected to behave in orderly and disciplined manner while writing the examination. Their candidature will be rejected in case of impersonation/ disorder/ rowdy behaviour during Examination and necessary F.I.R. for this incident will be lodged with concerned Police Station. The Chief Superintendent of the centre is authorized to take spot decision in this matter.

D.7. Candidates trying to use unfair means shall be disqualified from the selection. No correspondence whatsoever will be entertained from the candidates.

D.8. The Penal Provisions of Act 25/97 published in the A.P. Gazette No. 35, Part-IV.B Extraordinary dated: 21/08/1997 shall be invoked if malpractice and unfair means are noticed at any stage of the Examination. Action will be taken to penalize as per G.O.Ms.No.385, G.A. (Ser. A) Dept., Dt.18/10/2016.

D.9. (a) Wherever the candidates are totally blind, they will be provided a scribe to write the examination and 20 minutes extra time is permitted to them per hour. Eligible candidates are also allowed to bring their own scribe after due intimation to the Commission after duly providing the full identification details of the scribe like name, address and appropriate proof of identification.

(b) The applicants shall upload the certificate relating to percentage of disability for considering the appointment of scribe in the examination.

(c) An extra time of 20 minutes per hour is also permitted for the candidates with locomotor disability and CEREBRAL PALSY where dominant (writing) extremity is affected for the extent slowing the performance of function (Minimum of 40% impairment). No scribe is allowed to such candidates.

(d) The candidate as well as the scribe will have to give a suitable undertaking conforming to the rules applicable

D.10. In case the Hall-Ticket is without photo or too small, he/she should affix a passport size photo on Hall-ticket and appear by duly getting attested by Gazetted Officer. He/she shall handover similar photo for each paper to Chief Superintendent for affixing the same on the Nominal Rolls.

D.11. The candidate will not be admitted to the examination Hall without procedural formalities.

D.12. The candidate admission to the Examination is provisional, subject to the eligibility, confirmation/satisfaction of conditions laid down in this notification.

D.13. The candidates should put his/ her signature and get the signature of the invigilator at the appropriate places in the Nominal Roll or OMR Answer Sheet.

D.14. Instructions to be followed scrupulously in the Examination Hall.

ANNEXURE-IV
LIST OF SCHEDULED CASTES
(Definition 28 of General Rule -
2) SCHEDULE - I

(Substituted with effect from 27-07-1977 through G.O.Ms.No. 838, G.A.(Services-D) Department, dated 15/12/1977)

1 Adi Andhra
2 Adi Dravida
3 Anamuk
4 Aray Mala
5 Arundhatiya
6 Arwa Mala
7 Bariki
8 Bavuri
9 Beda Jangam, Budga Jangam (In Districts of Hyderabad, Rangareddy, Mahaboobnagar, Adilabad, Nizamabad, Medak, Karimnagar, Warangal, Khammam and Nalgonda)*
10 Bindla
11 Byagara, Byagari*
12 Chachati
13 Chalavadi
14 Chamar, Mochi, Muchi, Chamar-Ravidas, Chamar-Rohidas*
15 Chambhar
16 Chandala
17 Dakkal, Dokkalwar
18 Dandasi
19 Dhor
20 Dom, Dombara, Paidi, Pano
21 Ellamalwar, Yellammalawandlu
22 Ghasi, Haddi, Relli, Chachandi
23 Godagali, Godagula(in the Districts of Srikakulam, Vizianagaram & Vishakapatnam) *
24 Godari
25 Gosangi
26 Holeya
27 Holeya Dasari
28 Jaggali
29 Jambuwulu
30 Kolupulvandlu, Pambada, Pambanda, Pambala *
31 Madasi Kuruva, Madari Kuruva
32 Madiga
33 Madiga Dasu, Mashteen
34 Mahar
35 Mala, Mala Ayawaru *
36 Mala Dasari
37 Mala Dasu
38 Mala Hannai
39 Mala Jangam
40 Mala Masti
41 Mala Sale, Netkani
42 Mala Sanyasi
43 Mang
44 Mang Garodi
45 Manne
46 Mashti
47 Matangi
48 Mahter
49 Mitha Ayyalvar
50 Mundala
51 Paky, Moti, Thoti
52 (Omitted)*
53 Pamidi
54 Panchama, Pariah
55 Relli
56 Samagara

57 Samban
58 Sapru
59 Sindhollu, Chindollu
60 Yatala (Srikakulam Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt. 31/03/2008
61 Valluvan *** (**Chittoor and Nellore Dist. Only**)** Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt. 31/03/2008

***** As for the Constitution (Scheduled Caste) orders (Second Amendment) Act 2002, Act No. 61 of 2002

LIST OF SCHEDULED TRIBES

1. Andh, Sadhu Andh *
2. Bagata
3. Bhil
4. Chanchu (Chenchwar omitted) *
5. Gadabas, Boda Gadaba, Gutob Gadaba, Kallayi Gadaba, Parangi Gadaba, Kathera Gadaba, Kapu Gadaba *
6. Gond, Naikpod, Rajgond, Koitur *
7. Goudu (in the Agency tracts)
8. Hill Reddis
9. Jatapus
10. Kammara
11. Kattunayakan
12. Kolam, Kolawar *
13. Konda Dhoras, Kubi *
14. Konda Kapus
15. Konda Reddis
16. Kondhs, Kodi, Kodhu, Desaya Kondhs, Dongria Kondhs, Kuttiya Konds, Tikiria Khondhs, Yenity Khondhs, Kuvinga *
17. Kotia, Bentho Oriya, Bartika, Dulia, Holva, Sanrona, Sidhopaiko (Dhulia,Paiko,Putiya-omitted *)
18. Koya, Doli Koya, Gutta Koya, Kammara Koya, Musara Koya, Oddi Koya, Pattidi Koya, Rajah, Rasha Koya, Lingadhari Koya (Ordinary), Kottu Koya, Bhine Koya, Raj Koya (Goud-omitted *)
19. Kulia
20. Malis (excluding Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal District)
21. Manna Dhora
22. Nayaks (in the Agency tracts)
23. Mukha Dhora, Nooka Dhora
24. Pardhan
25. Porja, Parangi Perja
26. Reddi Dhoras
27. Rona, Rena
28. Savaras, Kapu Savaras, Maliya Savaras, Khutto Savaras
29. Sugalis, Lambadis, Banjara *
30. Thoti (in Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal Districts)
31. Valmiki (in the Scheduled Areas of Vishakapatnam, Srikakulam, Vizianagaram, East Godavari and West Godavari Districts *)
32. Yenadis, Chella Yenadi, Kappala Yenadi, Manchi Yenadi, Reddi Yenadi *
33. Yerukulas, Koracha, Dabba Yerukula, Kunchapuri Yerukula, Uppu Yerukula *
34. Nakkala Kurivikaran (Nakkala – A.P. Gazette, Part – III (B) Central Acts ordinance and Regulations Issue No. 05 Dt. 02/10/2003)
35. Dhulia, Paiko, Putiya (in the districts of Vishakapatnam, Vizianagaram *)

* As for the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act 2002, Act No. 10 of 2003

LIST OF SOCIALLY AND EDUCATIONALLY BACKWARD CLASSES
(Amended from time to time as on 31/08/2007)

GROUP- A
Aboriginal Tribes, Vimuktha Jathis, Nomadic and Semi Nomadic Tribes etc.,

1. Agnikulakshatriya, Palli, Vadabalija, Besta, jalari, Gangavar, Gangaputra, Goondla, Vanyakulakshatriya (Vannekapu, Vannereddi, Pallikapu, Pallireddy Neyyala and Pattapu) *Mudiraj / Mutrasi / Tenugollu, The G.O. Ms.No. 15 BCW(C2) Dept., dt. 19/02/2009 is suspended. Hence the inclusion of Mudiraj / Mutrasi / Tenugollu is

suspended) vide Hon"ble A.P. High Court orders in WP No. 2122/2009 dated: 29-04-2009.

2. Balasanthu, Bahurupi
3. Bandara
4. Budabukkala
5. Rajaka (Chakali Vannar)
6. Dasari (formerly engaged in bikshatana)
(amended vide G.O.Rt.No. 32, BCW(M1) Department, dated 23/02/1995)
7. Dommara
8. Gangiredlavaru
9. Jangam (whose traditional occupation is begging)
10. Jogi
11. Katipapala
12. Korcha
13. Lambada or Banjara in Telangana Area
(deleted and included in S.T. list vide G.O.Ms.No. 149, SW, dated 3/5/1978)
14. Medari or Mahendra
15. Mondivaru, Mondibanda, Banda
16. Nayee Brahmin (Mangali), Mangala and Bajantri
(amended vide G.O.Ms.No. 1, BCW(M1) Department, dated 6/1/1996)
17. Nakkala (Deleted vide G.O. Ms. No. 21, BCW(C2) Dept., Dt. 20/06/2011)
18. Vamsha Raj (amended vide G.O.Ms.No. 27, BCW(M1) Department, dated 23/06/1995 deleting the Original name Pitchiguntla)
19. Pamula
20. Pardhi (Mirshikari)
21. Pambala
22. Peddammavandlu, Devaravandlu, Yellammavandlu, Mutyalammavandlu (Dammali, Dammala, Dammula, Damala Castes confined to Srikakulam dist. Vide G.O.Ms. No.: 9 BCW(C2) Dept., Dt. 9/04/2008)
23. Veeramushti (Nettikotala), Veera bhadreeya (Amended vide G.O. Ms. No. 62, BCW (M1) Dept., Dt. 10/12/1996)
24. Valmiki boya (Boya, Bedar, Kiratka, Nishadi, Yellapi, Pedda Boya) Talayari and Chunduvallu
(G.O.Ms. No. 124, SW, Dt. 24.06.85) Yellapi and Yellapu are one and the same amended vide G.O. Ms. No. 61, BCW(M1) Dept., Dt. 05.12.1996)
25. Yerukalas in Telangana area (deleted and included in the list of S.Ts)
26. Gudala
27. Kanjara - Bhatta
28. Kalinga (Kinthala deleted vide G.O.Ms. No. 53, SW, Dt. 07.03.1980)
29. Kepmare or Reddika
30. Mondipatta
31. Nokkar
32. Pariki Muggula
33. Yata
34. Chopemari
35. Kaikadi
36. Joshinandiwalas
37. Odde (Oddilu, Vaddi, Vaddelu)
38. Mandula (Govt. Memo No. 40-VI/70-1, Edn., Dt. 10.02.1972)
39. Mehator (Muslim) (Govt. Memo No. 234-VI/72-2, Edn., Dt. 05.07.1972). 40. Kunapuli (Govt. Memo No. 1279/P1/74-10, E&SW, Dt. 03.08.1975)
41. Patra (included in G.O. Ms. No. 8, BCW(C2) Dept., Dt. 28.08.2006)
42. kurakula of Srikakulam, Vizianagaram and Visakhapatnam Districts only. Included vide in G.O.MS.No. 26 BC W (C2) Dept., Dt. 4/07/08
43. Pondara of Srikakulam, Vizianagaram, and Visakhapatnam Districts only. Included vide G.O.MS.No. 28 BC W (C2) Dept., Dt. 4/07/08
44. Samanthula, Samantha, sountia, Sauntia of Srikakulam District only. Included vide G.O.MS.No. 29 BC W (C2) Dept., Dt. 4/07/08
45. pala-Ekari, Ekila, Vyakula, Ekiri, Nayanivaru, Palegaru, Tolagari, Kavali of Chittor, Cuddapah, Kurnool, Anantapur, Nellore, Hyderabad and Rangareddy Districts only. Included Vide G.O. MS. No. 23 B.C. W (C2) Dept., Dt. 4/07/08
46. Rajannala, Rajannalu of Karimnagar, Warangal, Nizamabad and Adilabad Districts only. (included in vide G.O.Ms. No. 44 B.C.W(C2) Dept., Dt.07/08/2008).
47. Bukka Ayyavars, Included vide G.O.Ms.No. 6 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
48. Gotrala, Included vide G.O.Ms.No. 7 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.

49. Kasikapadi / Kasikapudi, Included vide G.O.Ms.No. 8 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Hyderabad, Rangareddy, Nizamabad, Mahaboobnagar and Adilabad Districts of Telangana Region only.
50. Siddula, Included vide G.O.Ms.No. 9 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
51. Sikligar / Saikalgar, Included vide G.O.Ms.No. 10 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
52. Poosala included vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
53. Aasadula / Asadula, included vide G.O. Ms. No. 13, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to East Godavari and West Godavari Districts only.
54. Keuta/Kevuto/Keviti, included vide G.O. Ms. No. 15, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam District only.

GROUP – B (Vocational)

1. Achukatlavandlu in the Districts of Visakhapatnam and Guntur confined to Hindus only as amended vide G.O. Ms. No. 8, BCW(C2) Dept., Dt. 29.03.2000
2. Aryakshatriya, Chittari , Giniyar, Chitrakara, Nakshas (Muchi Telugu Speaking deleted vide G.O. Ms. No. 31, BCW (M1) Dept., 11.06.1996)
3. Devanga
4. Goud (Ediga) Gouda (Gamella) Kalalee, Goundla, Settibalija of Vishaphapatnam, East Godavari, West Godavari and Krishna Districts and Srisayana (Segidi) – (amended vide G.O. Ms. No. 16, BCW (A1) Dept., dt. 19.06.1997
5. Dudekula, Laddaf, Pinjari or Noorbash
6. Gandla, Telikula, Devatilakula (Amended vide G.O. Ms. No. 13, BCW(A1) Dept., dt. 20.05.1997)
7. Jandra
8. Kummara or Kulala, Salivahana (Salivahana added vide G.O. Ms. No. 28, BCW(M1) Dept., 24.06.1995)
9. Karikalabhakthulu, Kaikolan or Kaikala (Sengundam or Sengunther)
10. Karnabhakthulu
11. Kuruba or Kuruma
12. Nagavaddilu
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perikabalija, Puragirikshatriya)
16. Nessi or Kurni
17. Padmasali (Sali, Salivan, Pattusali, Senapathulu, Thogata Sali)
18. Srisayana ((**sagidi**)- deleted and added to Sl.No. 4 of Group-B)
19. Swakulasali
20. Thogata, Thogati or Thogataveerakshtriya
21. Viswabrahmin, Viswakarma (Ausula or Kamsali, Kammari, Kanchari Vadla or Vadra or Vadrangi and Silpis)
    (Viswakarma added vide G.O. Ms. No. 59 BCW(M1) Dept., Dt. 06.12.1995)
22. Kunchiti, Vakkaliga, Vakkaligara, Kunchitiga of Anantapur Dist. Only vide G.O. Ms.No. 10 BCW(C-2) Dept., Dt. 9-04-2008
23. Lodh, Lodhi, Lodha of Hyderabad, Rangareddy, Khammam and Adilabad Districts only. Included in Vide G.O.MS.No. 22 BC W (C2) Dept., Dt. 4/07/08
24. Bondili (included in vide G.O.Ms. No. 42, B.C.W(C2) Dept., Dt.07/08/2008)
25. Are Marathi, Maratha(Non-Brahmins), Arakalies and Surabhi Natakalavallu. (included in vide G.O.Ms. No. 40, B.C.W(C2) Dept., Dt.07/08/2008)
26. Neeli (included in vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008).
27. Budubunjala/Bhunjwa/Bhadbhunja, included vide G.O.Ms. No. 11, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Hyderabad and Ranga Reddy District only.
28. Gudia/Gudiya, included vide G.O.Ms. No. 14, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam, Vizianagaram and Vishakhapatnam, district only.

GROUP – C

Scheduled Castes converts to Christianity and their progeny
(Substituted in G.O.Ms.No.159, G.A.(Ser.D) Dept., dt. 02/04/1981)

GROUP – D (Other Classes)

1. Agaru
2. Are-Katika, Katika, Are-Suryavamsi(Are-Suryavamsi added vide G.O. Ms. No. 39, B.C. W(C2) Dept., Dt. 7/08/08)
3. Atagara
4. Bhatraju
5. Chippolu (Mera)
6. Gavara
7. Godaba
8. Hatkar
9. Jakkala
10. Jingar
11. Kandra
12. Kosthi
13. Kachi
14. Surya Balija, (Kalavanthulu) Ganika (amended vide G.O.Ms. No. 20, BCW(P2) Dept., Dt. 19.07.1994)
15. Krishanabalija (Dasari, Bukka)
16. Koppulavelama
17. Mathura
18. Mali (Bare, Barai, Marar and Tamboli of all Districts of Telangana Region added as synonyms vide G.O. Ms. No. 3, BCW(C2) Dept., Dt. 09.01.2004 and G.O. Ms. No. 45, B.C.W(C2) Dept., Dt.07/08/2008)
19. Mudiraj / Mutrasi / Tenugollu.
20. Munnurukapu (Telangana)
21. Nagavamsam (Nagavamsa) vide G.O.Ms.No. 53, BC Welfare Dept., dated:19/09/1996
22. Nelli(deleted vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008)
23. Polinativelmas of Srikakulam and Visakhapatnam districts
24. deleted vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009
25. Passi
26. Rangrez or Bhavasarakshtriya
27. Sadhuchetty
28. Satani (Chattadasrivaishnava)
29. Tammali (Non-Brahmins) (Shudra Caste) whose traditional occupation is playing musical instruments, vending of flowers and giving assistance in temple service but not Shivarchakars. Included vide G.O. Ms. No. 7, Backward Classes Welfare (C2) Dept., Dt. 19/02/2011).
30. Turupukapus or Gajula kapus {… the words "of Srikakulkam, Vizianagaram and Vishakapatnam Districts" were deleted vide G.O.Ms.No. 62, Backward Classes Welfare (C2) Dept., dt. 20/12/2008 and G.O. Ms.No. 19 Backward Classes Welfare (C2) Dept., dt. 19/02/2009} who are subject to Social customs or divorce and remarriage among their women (G.O. Ms. No. 65, E&SW, dt. 18.02.1994)
31. Uppara or Sagara
32. Vanjara (Vanjari)
33. Yadava (Golla)
34. Are, Arevallu and Arollu of Telangana District (Included vide G.O.Ms.No. 11, Backward Classes Welfare (C-2) Department, dt. 13/5/2003 and G.O.Ms. No. 41, B.C.W(C2) Dept., Dt.07/08/2008)
35. Sadara, Sadaru of Anantapur Dist. Only vide G.O.Ms.No. 11 BCW (C-2) Dept., Dt. 9-04-2008
36. Arava of Srikakulam District only. Included in vide G.O. MS. No. 24 BC W (C2) Dept., Dt. 4/07/08
37. Ayyaraka, of Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, West Godavari, Krishna, Guntur, Khammam and Warangal Districts only. Included in vide G.O. MS. No. 25 BC W (C2) Dept., Dt. 4/07/08
38. Nagaralu of Srikakulam, Vizianagaram, Visakhapatnam, Krishna, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 27 BC W (C2) Dept., Dt. 4/07/08
39. Aghamudian, Aghamudiar, Agamudivellalar and Agamudimudaliar including Thuluva Vellalas of Chittoor, Nellore, Kurnool, Anantapur, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 20 BC W (C2) Dept., Dt. 4/07/08

40. Beri Vysya, Beri Chetty of Chittoor, Nellore and Krishna Districts only. Included in vide G.O. MS. No. 21 BC W (C2) Dept., Dt. 4/07/08
41. Atirasa included vide G.O. Ms.No. 5 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to East Godavari and West Godavari Districts only.
42. Sondi / Sundi included vide G.O. Ms.No. 11 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
43. Varala included vide G.O. Ms.No. 12 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
44. Sistakaranam included vide G.O. Ms.No. 13 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
45. Lakkamari Kapu included vide G.O. Ms.No. 14 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
46. Veerashaiva Lingayat/Lingabalija, included vide G.O. Ms.No. 22 Backward Classes Welfare (C2) Dept., dt. 28/02/2009.
47. Kurmi, included vide G.O.Ms. No. 12, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Telangana Region and also Krishna District only.
48. Kalinga Komati / Kalinga Vysya vide G.O. Ms. No.10 Backward classes Welfare(c) Department Dated.24.9.2014. The area of operation shall be confined to Srikakulam, Vizianagaram and Visakhapatnam districts only.

GROUP – E

(Socially and Educationally Backward Classes of Muslims)

1. Achchukattalavandlu, Singali, Singamvallu, Achchupanivallu, Achchukattuvaru, Achukatlavandlu.
2. Attar Saibuli, Attarollu
3. Dhobi Muslim/ Muslim Dhobi/ Dhobi Musalman, Turka Chakla or Turka Sakala, Turaka Chakali, Tulukka Vannan, Tskalas or Chakalas, Muslim Rajakas.
4. Faqir, Fhakir Budbudki, Ghanti, Fhakir, Ghanta Fhakirlu, Turaka Budbudki, Derves, Fakeer
5. Garadi Muslim, Garadi Saibulu, Pamulavallu, Kani-Kattuvallu, Garadollu, Garadiga.
6. Gosangi Muslim, Phakeer Sayebulu
7. Guddi Eluguvallu, Elugu Bantuvallu, Musalman Keelu Gurralavallu
8. Hajam, Nai, Nai Muslim, Navid
9. Labbi, Labbai, Labbon, Labba
10. Pakeerla, Borewale, Deraphakirlu, Bonthala
11. Kureshi/ Khureshi, Khasab, Marati Khasab, Muslim Katika, Khatik Muslim
12. Shaik/ Sheikh
13. Siddi, Yaba, Habshi, Jasi
14. Turaka Kasha, Kakkukotte Zinka Saibulu, chakkitakanevale, Terugadu Gontalavaru, Thirugatiganta, Rollaku Kakku Kottevaru, Pattar Phodulu, Chakketakare, Thuraka Kasha
15. Other Muslim groups excluding Syed, Saiyed, Sayyad, Mushaik; Mughal, Moghal; Pathans; Irani; Arab; Bohara, Bohra; Shia Imami Ismaili, Khoja; Cutchi-Memon; Jamayat: Navayat; and all the synonyms and sub-groups of the excluded groups; and except those who have been already included in the State List of Backward Classes.

N.B.:1. The above list is for information and subject to confirmation with reference to G.O. Ms.No. 58, SW (J) Department, dated 12/05/1997 and time to time orders.

2. On account of any reason whatsoever in case of any doubt/ dispute arising in the matter of community status (SC/ST/BC/OC) of any candidate, subject to satisfaction with regard to relevant rules and regulations in force the decision of the Commission shall be final in all such cases.

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ANNEXURE - V

Equivalence of Certain P.G. Degree Courses in Prescription of qualification for Appointment as Junior Lecturer

Consolidated List of Equivalence

Sl. No.	Post	Qualification	University	Equivalent or Not	Remarks
1.	J.L.in Hindi	1. M.A. (Hindi)	Dakshin Bharat Hindi Prachar Sahitya	Equivalent to M.A. (Hindi)	Rc.No.639/E1-1/97 dt. 29-01-1997,
		2. Uttama (Hindi Sahitya)	---	Equivalent to B.A. (Hons.) in Hindi	Rc.No.68/ER TW-III(TB)/2001 dt. 31-08-2001
2.	J.L. in Languages	1. MOL in Oriental Languages in the concerned subject		Equivalent to M.A.	Rc.No.639/E1-1/97 dt. 29-01-1997,
3.	J.L. in History	1.M.A.(Ancient History & Archaeology)		Equivalent to M.A. (History)	Rc.No.639/E1-1/97 dt. 29-01-1997
		NOTE: These candidates should have studied History as one of subject of B.A. degree level			
		2. M.A. (Indian Culture)	S.V. University	Equivalent to M.A. (History)	Rc.No.104/ERTW-II (T.B)/2005 dt: 05-02-2005
		3. M.A. History, Archeaology&Culture)	Dravidian University	Equivalent to M.A. (History)	Rc.No.104/ERTW-II (T.B)/2005 dt: 05-02-2005
		4. M.A. (Ancient Indian History, Culture & Archeaology)	S.V. University	Equivalent to M.A. (History)	Rc.No.104/ERTW-II (T.B)/2005 dt: 05-02-2005
		5. M.A. (History, Archeology)	A.U.	Equivalent to M.A. (History)	Rc.No.104/ERTW-II (T.B)/2005 dt: 05-02-2005
		6. M.A.(South East Asian & Pacific studies)	S.V. University	Not equivalent to MA (History)	Rc.No.104/ER TWOII (T.B)/2005 dt: 05-02-2005
	4. J.L. in Econo-mics	1. M.A.(Rural Development)		Equivalent to MA Economics	RC . NO.639/E1-1/97, Dt: 29-01-97
		2. M.A. (Applied Economics)		Equivalent to MA Economics	RC . NO.639/E1-1/97, Dt: 29-01-97
		3. M.A. (Mathematical Economics)		Equivalent to MA Economics	RC . NO.639/E1-1/97, Dt: 29-01-97
		4. M.A. Business Economics	S.V. University	Not equivalent to M.A. Economics	Rc.No.104/ER TW-II/TB/2004 dt: 11-8-2004
	5. J.L. in Chemistry	*1. M.Sc., (Inorganic Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*2. M.Sc. (Analytical Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*3. M.Sc. (Nuclear Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*4. M.Sc. (Organic Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*5. M.Sc. (Physical Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*6. M.Sc. (Environmental Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*7. M.Sc. (Mineral Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*8. M.Sc. (Fertilizers & Agro Chemicals)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*9. M.Sc.(Phyto Chemistry & Forest Products)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*10. M.Sc. (Chemistry of Food & Drugs)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*11. M.Sc. Synthetic Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.

		*12. M.Sc. (Applied Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		*13. M.Sc. Chemistry (Associate ship Exam in Chemistry)		Equivalent to M.Sc. Chemistry	Rc No.639/E1-1/97, Dt: 29-1-97.
		NOTE: These candidates should have studied the Chemistry subject at B.Sc. Level			
		*14. M.Sc. (Forest Products Chemistry)		Not equivalent to M.Sc. Chemistry	Rc.No.104/ER TW-2/TB/2004-2005, dt. 18-5-2004
		15. M.Sc. Bio-Chemistry		- do -	- do -
		16. M.Sc. (Medicinal Chemistry)	Osmania University	Equivalent to M.Sc. Chemistry	Rc.No.104/Spl/ERTW-II/(TB)/02, as approved in 46th Standing Committee on Academic affairs held on 23-03-2006.
		17. B.Sc. Honors	-do-	Not equivalent to M.Sc. Chemistry	Rc.No.104/ER TW-II/TB)/04, dt. 11-08-2004
6.	J.L. in Physics	*1.M.Sc. (Engg, Physics & Instrumentation)	Osmania University	Equivalent to M.Sc. Physics	Rc. No. 639/E1-1/97, dt. 29-01-97
		*2. M.Sc. (Nuclear Physics)	Andhra University	Equivalent to M.Sc. Physics	Rc. No. 639/E1-1/97, dt. 29-01-97
		*3. M.Sc. (Tech.) Applied Electronics	Osmania University	Equivalent to M.Sc. - do -	Rc. No. 639/E1-1/97, - do -
		*4. M.Sc. (Tech.) Electronics		Equivalent to M.Sc. - do -	Rc. No. 639/E1-1/97, - do -
		*5. M.Sc.(Meteorology & Oceanography)		Equivalent to M.Sc. - do -	Rc. No. 639/E1-1/97, - do -
		*6. M.Sc.(Tech) Co-Physics		- do -	- do -
		NOTE: These candidates should have studied the subject Physics at B.Sc. level			
		7. M.Sc. (Technology) Engineering Physics with any specialization	Any University	Equivalent to M.Sc. (Physics)	Rc.No.68/ER TW-III (TB)/2001 dt. 31-08-2008
		8. M.Sc.(Tech. Instrumentation)	Any University	Equivalent to M.Sc. (Physics)	Rc.No.68/ER TW-III (TB)/2001 dt. 31-08-2008
		9. Any Physics based M.Sc. Course	Any University	Equivalent to M.Sc. (Physics)	Rc.No.68/ER TW-III (TB)/2001 dt. 31-08-2008
		10. M.Sc. (Engineering Physics with Instrumentation)	Kakatiya University	Equivalent to M.Sc. (Physics)	Rc.No.104/ER TW-III/TB/2004-05, dt. 18-5-2004
		11. M.Sc.(Technical Engineering Physics)	S.V. University	Equivalent to M.Sc. (Physics)	Rc.No.104/ER TW-III/TB/2004-05, dt. 18-5-2004
		12. M.Sc. (Astro Physics)	Osmania University	Equivalent to M.Sc. (Physics)	Rc.No.104/Spl./ER TW-II/(TB)/02, as approved in 46th Standing Committee on academic affairs held on 23-3-2006.
		13. M.Sc.(Astronomy)	Osmania University	Not Equivalent to M.Sc. Physics	Rc.No.104/Spl./ER TW-II/(TB)/02, as approved in 46th Standing Committee on academic affairs held on 23-3-2006.
		14. M.Sc. Hydrology	Andhra University	Not Equivalent to M.Sc. Physics	Rc. NO.104/ER TW-II(TB)/2004, dt. 11-8-2004,
7.	J.L.in Maths	*1. M.Sc. (applied Maths)		Equivalent to M.Sc Maths	Rc. No.639/E1-1/97, dt. 29-01-97
		*2. M.A. (applied Maths)		Equivalent to M.Sc Maths	Rc. No.639/E1-1/97, dt. 29-01-97
		3. M.A./M.Sc. (Statistics/applied Statistics)		Equivalent to M.Sc Maths	Rc. No.639/E1-1/97, dt. 29-01-97

		4. M.Sc. Pure Mathematics	Central University of Hyd.	Equivalent to M.Sc Maths	Rc. No.639/E1-1/97, dt. 29-01-97
		5. A.O. Maths	Nagarjuna University	Equivalent to M.Sc Maths	Rc. No.639/E1-1/97, dt. 29-01-97
		NOTE: These candidates should have studied Mathematics as one of the subject at BA/B.Sc. Level			
		6. M.Sc. (Maths, Computer Science)		Equivalent to M.Sc. Maths	Rc.No.104/ER TW-III (Text Book) 2004-05, dt: 18-05-2004.
8.	J.L. in Sanskrit	1. Vidya Praveena (Sanskrit)	Andhra University	Equivalent to M.A. (Sanskrit)	Rc.No.639/E1-1/97, dt. 29-01-97.
		2, Siremani (Sanskrit)	S.V. University	Equivalent to M.A. (Sanskrit)	Rc.No.639/E1-1/97, dt. 29-01-97.
		3. BOL Degree holders with Sanskrit		Equivalent to M.A. (Sanskrit)	Rc.No.639/E1-1/97, dt. 29-01-97.
		NOTE: Candidates with specialization like Sahitya, Vyakarna, Nyaya Mimansa and Vedants etc. in the above titles and degree are eligible for appointment as JLs in Sanskrit.			
		4. Profienncy course in Sanskrit of CIEFL		Not equivalent M.A.Sanskrit	Rc.No.104/Spl./ERTW-II-(TB)/02, as approved in 46th Standing Committee on academic affairs held on 23-3-2006
9.	J.L. in Botany	*1. M.Sc. (Bio-Sciences)	Andhra University	Equivalent to M.Sc. Botany	Rc. No. 639/E1-1/97, dt: 29-01-97.
		*2. M.Sc. (Biological Sciences)	Osmania University	Equivalent to M.Sc.Botany	Rc. No. 639/E1-1/97, dt: 29-01-97.
		*3. M.Sc. (Plant Sciences)	Krishnadevaraya and Osmania University	Equivalent to M.Sc.Botany	Rc. No. 639/E1-1/97, dt: 29-01-97.
		*4. M.Sc. (Environmental Biology)	Nagarjuna University	Equivalent to M.Sc.Botany	Rc. No. 639/E1-1/97, dt: 29-01-97.
		*5. M.Sc. (Modern Biology)	Maratwada University	Equivalent to M.Sc.Botany	Rc. No. 639/E1-1/97, dt: 29-01-97.
		*6. M.Sc. (Experimental Biology)	Saurasthra University	Equivalent to M.Sc.Botany	Rc. No. 639/E1-1/97, dt: 29-01-97.
		M.Sc. (Microbiology)		Equivalent M.Sc.Botany	
		M.Sc. Biotechnology		Equivalent M.Sc.Botany	
		M.Sc. Genetics		Not Equivalent Botany	
		7. M.Sc. (Life Sciences)	Indore University	Equivalent to M.Sc.Botany	Rc. No. 639/E1-1/97,dt: 29-01-97.
		8. M.Sc. (Marine Biology)	Andhra University	Equivalent to M.Sc.Botany	Rc. No. 639/E1-1/97,dt: 29-01-97.
		NOTE: These candidates should have studies Botany at their graduation level.			
		9. M.Sc. (Life sciences)	Berhampur University	Equivalent to M.Sc.(Botany) provided the candidates opted for Plant Sciences in 2nd year.	Rc.No.104/ER tW-II(T.B)/2005 dt: 05-02-2005.
		10. M.Sc. (Plant Sciences)	University of Hyd.	Equivalent to M.Sc. Botany	Rc.No.104/ER TW-II(T.B)/2005 dt: 05-02-2005.
		11. M.Sc. (Environ-mental Bio-technology)	JNTU, Hyd.	Not Equivalent to M.Sc. (Botany)	Rc.No.104/ER TW-II(T.B)/2005 dt: 05-02-2005.
		12. M.Sc. (Life Science) who opted for Animal Sciences	Berhampur University	Not Equivalent to M.Sc. (Botany)	Rc.No.104/ER TW-II(T.B)/2005 dt: 05-02-2005.
		13. M.Sc. (Bio-Science)	Mangalore University	Not Equivalent to M.Sc. (Botany)	Rc.No.104/ER TW-II(T.B)/2005 dt: 05-02-2005.
		14. M.Sc. (Mirco Biology)	Acharya Nagarjuna University & Bhopal University	Not Equivalent to M.Sc. (Botany)	Rc.No.104/Spl/ERTW-II(TB)/02 as approved in the 46th Standing Committee on academic affairs held on 23-03-2006

		15. M.Sc. (Genetics)	Osmania University	Not Equivalent to M.Sc. (Botany)	Rc.No.104/Spl/ERTW-II(TB)/02 as approved in the 46th Standing Committee on academic affairs held on 23-03-2006
		16. M.Sc. (Environmental Sciences)		- do -	Rc.No.104/ER TW-II (T.B)2004-05 dt: 18-5-04
10.	J.L. in Zoology	*1 M.Sc. (Bio-Sciences)	Andhra University	Equivalent to M.Sc. (Zoology)	Rc. No.639/E1-1/97, dt. 29-01-97/
		*2. M.Sc. (Biological Sciences)	Osmania University	Equivalent to M.Sc. (Zoology)	Rc. No.639/E1-1/97, dt. 29-01-97/
		*3. M.Sc. (Animal Biology)	Sri Venkateswara University	Equivalent to M.Sc. (Zoology)	Rc. No.639/E1-1/97, dt. 29-01-97/
		4. M.Sc.(Environemtnal Biology)	Nagarjuna University	Equivalent to M.Sc. (Zoology)	Rc. No.639/E1-1/97, dt. 29-01-97/
		5. M.Sc.(Marina Biology)	Karnataka Universtiy	Equivalent to M.Sc. (Zoology)	Rc. No.639/E1-1/97, dt. 29-01-97/
		6. M.Sc.(Modern Biology)	Maratwada University	Equivalent to M.Sc. (Zoology)	Rc. No.639/E1-1/97, dt. 29-01-97/
		7. M.Sc. (Experimental Biology)	Saurasthra University	Equivalent to M.Sc. (Zoology)	Rc. No.639/E1-1/97, dt. 29-01-97/
		8. M.Sc. (Life Sciences)	Indore University	Equivalent to M.Sc. (Zoology)	Rc. No.639/E1-1/97, dt. 29-01-97/
		NOTE: These candidates should have studied Zoology as one of subject of B.Sc. at degree level M.Sc. in Biotechnology, Microbiology& Genentics. Not equavalent to M.Sc. Zoology.			
		9. M.Sc. (Animal Science)	Central University, Hyd.	Equivalent to M.Sc. (Zoology)	Rc.No.104/ER TW-II(T.B)/2005 dt: 05-02-2005
		10. M.Sc. (Bio-Sciences)	Mangalore University	Equivalent to M.Sc. (Zoology)	Rc.No.104/ER TW-II(T.B)/2005 dt: 05-02-2005
		11. M.Sc. (Life Science) Specialization in Animal Science	Berhampur University	Equivalent to M.Sc. (Zoology)	Rc.No.104/ER TW-II(T.B)/2005 dt: 05-02-2005
		12. M.Sc. (Aqua Culture)	S.V. University	Not Equivalent to M.Sc. (Zoology)	Rc.No.104/ER TW-II(T.B)/2005 dt: 05-02-2005
		13. M.Sc. (Life Sciences with specializations in Plant Science)	Berhampur University	Not Equivalent to M.Sc. (Zoology)	Rc.No.104/ER TW-II(T.B)/2005 dt: 05-02-2005
		14. MSc. (Environmental Bio-Technology)	JNTU, Hyd.	Not Equivalent to M.Sc. (Zoology)	Rc.No.104/ER tW-II(T.B)/2005 dt:05-02-2005
		15. M.Sc. (Genetics)	Osmania University	Not equivalent to M.Sc., Zoology	Rc.No.104/Spl./ER TW-II/TB/02, as approved in the 46th Standing Committee on academic affairs, dt.23-03-2006.
		16. M.Sc. Micro Biology	Nagarjuna University and Bhopal University	Not equivalent to M.Sc., Zoology	Rc.No.104/Spl./ER TW-II/TB/02, as approved in the 46th Standing Committee on academic affairs, dt.23-03-2006.
		17. M.Sc. Environmental Science		Not equivalent to M.Sc. Zoology	Rc.No.104/ERTW-II/TB/2004-05 Dt: 18-5-2004
11.	J.L.in Commerce	1. M.B.A.		Not equivalent to M.Com.	Rc.No.104/ERTW(T.B)2004-2005 Dt: 18-05-2004
		2. M.F.A. (Master of Financial Analysis) re-named as M.Com (Financial Accounting)	Kakatiya University	Equivalent to M.Com (But M.Com. (F.A) candidates having B.Com. graduation level should alone be considered)	Rc.No.104/Spl/ERTW-II(TB)/02 as approved in the 46th Standing Committee on academic affairs dt: 23-03-2006

ఇంటర్మీడియెట్ విద్యామండలి, ఆంధ్రప్రదేశ్

Board of Intermediate Education, Andhra Pradesh

"Vidhya Bhavan" Nampally, Hyderabad - 500 001

Secretary:	24732046
Controller :	24732369
Tel. Gen :	24603314 (Hunting)
Fax No :	040-24732101
Grams :	INTERED

Rc.No. 104/Spl.ERTW-II(TB)/2002 **dated: 04-01-2007**

To
The Secretary,
Andhra Pradesh Public Service Commission,
Hyderabad.

Sir,

Sub:- Board of Intermediate Education- ERTW-II(TB)- Recruitment (Direct) to the post of Junior Lecturers in different sub jects- Certain clarification intimated- Regarding.

Ref:- 1) Your Letter No.306/Rs-17/04, dated: 12-12-2006.
2) Letter RC.No 104/Spl./ERTW-II(TB)/2002, dated: 13-12-2006.

With reference to your letter cited 1st read above, Iam to inform you that the consolidated list of equivalency for the post of Junior Lecturer has already been sent to you on 22-12-2006 vide reference 2nd cited.

I also to inform you that the qualifications of M.Sc. (Microbiology), M.Sc., (Genetic) and M.Sc. (Biotechnology) are not equivalent to M.Sc., Botany / Zoology and so they are not eligible for recruitment to the posts of Junior Letuter in Botany / Zoology.

This is for favour of information.

Yours faithfully,

Sd/-
Secretary

Board of Intermediate Education, Andhra Pradesh
"Vidhya Bhavan" Nampally, Hyderabad - 500 001

To
The Secretary,
Andhra Pradesh Public Service Commission,
M.J. Road, Nampally, Hyderabad

From,
The Secretary
Board of Intermediate Education
Nampally, Hyderabad.

Rc.No.104/ERTW - II (TB) /2002.

Date: 22-01-2007.

Sir,

Sub:- B.I.E., A.P., ERTW -II (TB) - Qualificational Equivalency of certain post graduate courses for the purpose of recruitment to the post of Junior Lecturers - Intimation - Reg.

◆◆◆

Certain candidates have applied to this office regarding the evaluation of post graduate equivalencies for recruitment to the posts of Junior lecturers. According, subject committee meetings were conducted for evaluation of qualificational equivalencies in five subjects viz., Physics, Chemistry, Mathematics, Botany and Zoology.

The equivalencies of the P.G. Courses are mentioned hereunder.

Sl No.	Subject	Equivalent / Not Equivalent
1.	MSc. Space Physics of Andhra University	Equivalent to MSc Physics
2.	MSc. Industrial Chemistry of Andhra University	Equivalent to MSc Chemistry
3.	MSc Chemistry (Drugs and Pharamaceuticals)	Equivalent to MSc Chemistry of JNTU
4.	Msc Biochemistry of Madras University	Not Equivalent to MSc Chemistry
5.	MSc Applicable Mathematics / Applied Mathematics of Sri Padmavathi Mahila University	Equivalent to MSc Mathematics
6.	MSc capture and culture Fisheries of Andhra University	Not Equivalent to MSC Botany
7.	MSc capture and culture Fisheries of Andhra University	Not Equivalent to MSC Zoology
8.	MSc Marine Sciences (Marine Biology) of Andhra University	Not Equivalent to MSC Zoology

This is for favour of information.

Sd/-
SECRETARY

Board of Intermediate Education, Andhra Pradesh
"Vidhya Bhavan" Nampally, Hyderabad - 500 001

From
The Secretary (FAC),
Board of Intermediate Education,
Nampally, Hyderabad.

To
The Secretary,
A.P.P.S.C,
M.J. Road, Nampally, Hydrabad.

Rc.No.104/Spl/ERTW - II (TB) /2002. **Date: 28-05-2007**

Sir,

Sub:- B.I.E., A.P., ERTW -II (TB) - Qualificational Equivalency of certain Post Graduate courses - Intimation - Reg.

With reference to the subject cited, it is to inform that the subject committee meeting were conducted in Botany and Economics for evaluation of qulificational equivalency.

The equivalencies of the PG Courses are mentioned hereunder.

Sl.No.	Subject	Equivalent / Not Equivalent
1.	M.A. Econometrics of S.V. University	Equivalent to M.A. Economics
2.	M.Sc. Marine Sciences (Marine Biology)	Not Equivalent to M.Sc. Botany of Andhra University

This is for favour of information.

Yours faithfully,

SECRETARY (FAC)

Board of Intermediate Education, Andhra Pradesh
"Vidhya Bhavan" Nampally, Hyderabad - 500 001

Rc.No.104/Spl/ERTW - II (TB) /2002. Date: 19-06-2008

To
The Secretary,
A.P.P.S.C,
M.J. Road, Nampally, Hydrabad.

Sir,

Sub:- B.I.E., A.P., ERTW -II (TB) - Qualificational Equivalency of certain post Graduate degrees for recruitment to the post of Junior Lecturers - Intimation courses - Intimation - Reg.

With reference to the subject cited, subject committee meetings were conducted in Chemistry for the evaluation of qulificational equivalency.

The equivalencies of the PG courses as recommended by the subject committees are mentioned hereunder.

Sl.No.	Subject	Equivalent / Not Equivalent
1.	M.Sc.Chemistry - Specialisation in Petro chemicals from JNT University	Equivalent to M.Sc Chemistry
2.	M.Sc.Chemistry - Specialisation in Forest Products Chemistry from SV University	Equivalent to M.Sc Chemistry
3.	M.Sc.Chemistry - Specialisation in Natural Products from SK University	Equivalent to M.Sc Chemistry
4.	M.Sc.Chemistry - Specialisation in Polymer Chemistry from Kakatiya University	Equivalent to M.Sc Chemistry

This is for favour of information.

Sd/-
SECRETARY

ఇంటర్మీడియట్ విద్యామండలి, ఆంధ్ర ప్రదేశ్
Board of Intermediate Education, Andhra Pradesh
"VIDYA BHAVAN" NAMPALLY, HYDERABAD - 500 001.

Grams : INTERED

Secretary : 24732046
Controller : 24732369
Tel. Gen. : 24603314 (Hunting)
Fax No. : 040-24732101

Rc.No.104/Spl/ERTW-II(TB)/02

Date:05-03-2009

To
The Secretary,
Andhra Pradesh Public Service Commission,
M.J. Road, Nampally,
Hyderabad.

Sir,

Sub:- BIE, A.P., ERTW-II(TB) – Qualificational equivalency of certain Post Graduate degree courses for recruitment to the post of Junior Lecturers – Information – Reg.

Ref:- 1) Your office Lr.No.1278/RS-17/08 dated 21-01-2009
2) Your office Lr.No.1278/RS-17/2008 dated 29-01-2009
3) Your office Lr.No.1278/RS-17/2008 dated 30-01-2009
4) Your office Lr.No.1278/RS-17/2008 dated 13-02-2009
5) This office Lr.Rc.No.104/Spl/ERTW-II(TB)/02 dated 13-12-2006

- - -

In response to your office letters cited under reference 1, 2 and 3 subject committee meetings were conducted in Physics, Chemistry, Botany and Zoology for evaluation of qualificational equivalency.

The equivalencies of the P.G courses as recommended by the subject committees are mentioned hereunder.

Sl.No.	PG Degree course for which equivalency was determined	Recommendation the subject committees
1.	M.Sc., Industrial Chemistry of Dr. Babasaheb Ambedkar Marathwada University	Not equivalent to M.Sc., Chemistry
2.	M.Sc., Chemistry – Bioinorganic chemistry of Andhra University	Equivalent to M.Sc., Chemistry
3.	M.Sc., Life Sciences (Zoology Stream) of Sambalpur University	Not equivalent to M.Sc., Zoology
4.	M.Sc., Materials Science of Andhra University	Equivalent to M.Sc., Physics
5.	M.Sc., Chemistry (Sugar Chemistry) of Osmania University	Equivalent to M.Sc., Chemistry
6.	M.S., Chemistry with Pharmaceutical Chemistry as Specialisation of S.K. University	Equivalent to M.Sc., Chemistry
7.	M.Sc., Physical Anthropology of Andhra University	Not Equivalent to M.Sc., Zoology
8.	M.Sc., Human Genetics of Andhra University	Not equivalent to M.Sc., Zoology

9.	M.Sc., Virology of Sri Venkateswara University	Not equivalent to M.Sc., Zoology
10.	M.Sc., Physical Anthropology of Andhra University	Not equivalent to M.Sc., Botany
11.	M.Sc., Human Genetics of Andhra University	Not equivalent to M.Sc., Botany
12.	M.Sc., Virology of Sri Venkateswara University	Not equivalent to M.Sc., Botany

In response to your office letter cited under reference [illegible] is to inform that the Board of Intermediate Education, has sent a consolidated [illegible] valencies vide letter cited under reference 5 wherein it is mentioned that M.A History (South East Asian and Pacific Studies) from S.V. University is not equivalent to M.A History.

This is for favour of information.

Sd/- G. Balaramaiah,
SECRETARY

// True copy attested //

Additional Secretary 2/3/09