

**TELANGANA RESIDENTIAL EDUCATIONAL INSTITUTIONS RECRUITMENT BOARD  
(TREI-RB), HYDERABAD.  
NOTIFICATION NO.02/2023. Dt:05.04.2023**

**JUNIOR LECTURER/PHYSICAL DIRECTOR/LIBRARIAN IN JUNIOR COLLEGES  
IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES  
(GENERAL RECRUITMENT)**

**PARA - I:**

1. Online Applications are invited from qualified candidates in the proforma application made available on Board's WEBSITE ([www.treirb.telangana.gov.in](http://www.treirb.telangana.gov.in)) for direct recruitment to the post of **Junior Lecturer/Physical Director/Librarian in Junior Colleges in Residential Educational Institutions Societies**.

- I. Submission of ONLINE applications starts from Dt.17.04.2023.
- II. Last date and time for submission of ONLINE applications is upto 5.00 PM on 17.05.2023.
- III. Examination schedule will be displayed in the Board Website.
- IV. Hall Tickets can be downloaded 07 days before commencement of Examination.
- V. The question Paper-I is common for all subjects and will be in bilingual i.e., English and Telugu. Paper- II will be in English version except Languages.

2) All the question papers are Objective type and in OFFLINE OMR mode. The Board reserves the right to conduct the Examination either COMPUTER BASED TEST (CBT) or OFFLINE OMR based.

**IMPORTANT NOTE:**

Applicants are requested to keep the soft copy of the following documents ready while uploading their Applications and updating the One Time Registration (OTR).

- i. Aadhar Card.
  - ii. Educational Qualifications i.e., SSC, Intermediate, Junior, Post Graduation etc.,
  - iii. Study (Bonafide) / Residence Certificate (1<sup>st</sup> to 7<sup>th</sup> Class period).
  - iv. Community Certificate (SC/ST/BC), Non-Creamy Layer Certificate in case of BCs issued by the competent authority of Telangana Government.
  - v. Income certificate for the Financial Year prior to the year of application issued by the competent authority of Telangana Government for claiming EWS reservation. (Issued after date: 01.01.2023 for validation).
  - vi. Certificates claiming Sports & PH reservation and age relaxation for Ex-Servicemen.
3. The applicants who possess requisite qualification may apply online by satisfying themselves about the terms and conditions of this recruitment.
4. The details of vacancies are given below:-

Sl. No.	Name of the Post	Name of the Society	No. of Vacancies	Age as on 01/07/2023 Min. Max.	Scale of Pay (Rs.)
1	JUNIOR LECTURER	Telangana Social Welfare Residential Educational Institutions Society (TSWREIS).	253	18-44	54220-133630/-
		Telangana Tribal Welfare Residential Educational Institutions Society (TTWREIS).	232		
		Mahatma Jyothiba Phule Telangana Backward Classes Welfare Residential Educational Institutions Society (MJPTBCWREIS).	1045		
		Telangana Minority Residential Educational Institutions Society (TMREIS).	394		

Sl. No.	Name of the Post	Name of the Society	No. of Vacancies	Age as on 01/07/2023 Min. Max.	Scale of Pay (Rs.)
2	PHYSICAL DIRECTOR (Junior College)	Telangana Tribal Welfare Residential Educational Institutions Society (TTWREIS).	11	18-44	54220-133630/-
		Mahatma Jyothiba Phule Telangana Backward Classes Welfare Residential Educational Institutions Society (MJPTBCWREIS).	23		
3	LIBRARIAN (Junior College)	Telangana Tribal Welfare Residential Educational Institutions Society (TTWREIS).	48		
		Mahatma Jyothiba Phule Telangana Backward Classes Welfare Residential Educational Institutions Society (MJPTBDWREIS).	02		
TOTAL			2008		

(The Details of Vacancies Society wise, Community-wise, PH-wise, EWS, Sports Category, Multi-Zone and Gender-wise (General/Women) are available at [Annexure-I.](#))

**IMPORTANT NOTE:** - The number of vacancies is subject to variation on intimation being received from the concerned. Addition of vacancies if any will be accepted only before the date of examination and an addendum to that effect will be issued. Deletion of vacancies, if any, can be effected upto the declaration of result.

#### 5. EDUCATIONAL QUALIFICATIONS:

Applicants must possess the qualifications from a recognized University/ Institution as detailed below or equivalent thereto as specified in the relevant Bye Laws/ Service Regulations, indented by the Residential Educational Institutions Societies as on the Date of Notification.

Sl. No.	Name of the Post	Educational Qualifications
1	JUNIOR LECTURER	<p><b><u>Academic Qualifications:</u></b></p> <p>A Post Graduate Degree in the subject concerned (or its equivalent) (Table-I) with at least 50% marks in aggregate from a University recognized by the UGC</p> <p><b>Incase of SC/ST/BC/ Differently abled candidates, the minimum marks shall be 45%.</b></p> <p><b>AND</b></p> <p>Bachelor of Education (B.Ed) or BA. B.Ed/B.Sc., B.Ed., from any institution recognized by NCTE with the subject concerned as a Methodology subject.</p>
2	PHYSICAL DIRECTOR (JUNIOR COLLEGE)	<p>A Bachelor of Physical Education (B.P.Ed) OR Bachelor of Physical Education (BPE) OR Bachelor of Science(B.Sc) in Health and Physical Education and Degree in Sports with atleast 55% marks, as per National Council for Teacher Education (Recognition Norms and Procedure) Regulations, 2009.</p>

Sl. No.	Name of the Post	Educational Qualifications
		<p>In case of SC/ST/BC candidates, the minimum marks shall be 50%.</p> <p style="text-align: center;"><b>OR</b></p> <p>Atleast 50% marks in the B.P.Ed Degree/B.P.Ed (Integrated) 4 years professional Degree in accordance with the National Council for Teacher Education (Recognitions Norms and Procedure) Regulations, 2007 notified on 10/02/2007.</p> <p>In case of SC/ST/BC candidates, the minimum marks shall be 45%.</p> <p style="text-align: center;"><b>OR</b></p> <p>B.P.Ed with atleast 55% marks or B.P.E course( or its equivalent) of 3 years duration with atleast 50% marks in accordance with the National Council for Teacher Education Regulations, 2002 notified on 13/11/2002.</p> <p>In case of SC/ST/BC candidates for B.P.Ed, the minimum marks shall be 50% orfor B.P.E Course, the minimum marks shall be 45%.</p> <p style="text-align: center;"><b>AND</b></p> <p>M.P.Ed., of at least 2 years duration from any National Council for Teachers Education recognized institution.</p>
3	<b><u>LIBRARIAN</u></b> <b><u>(JUNIOR COLLEGE)</u></b>	<p>A Bachelor's degree in Arts, Science or Commerce from a University recognized by the UGC.</p> <p style="text-align: center;"><b>AND</b></p> <p>A Post Graduate Degree in Library Science with First or Second Class with not less than 50% of Marks from a University recognized by the UGC or an equivalent qualification.</p> <p>In case of SC/ST/BC/ Differently abled candidates, the minimum marks shall be 45%.</p>

**Table - I (Junior Lecturers)**

- Academic Degree of Universities recognized by University Grants Commission (UGC)
- Teacher Education Courses recognized by National Council for Teacher Education (NCTE)
- The candidates who have obtained Degrees through Open Universities and Deemed Universities/Distance Education mode are required to have recognition by the University Grants Commission, Distance Education Council (DEC), All India Council for Technical Education and with Jurisdiction to operate such courses; in the State of Telangana/Andhra Pradesh as case may be. Unless such Degrees have been recognized by the relevant statutory Authority, they will not be accepted for purpose of Educational Qualification. The onus of proof of recognition by the relevant Statutory Authority that their Degrees/Universities have been recognized rests with the Candidates.

Sl. No.	Name of Post	Subjects in Post Graduation
1	Junior Lecturer in Telugu	M.A. in Telugu OR M.O.L. in Oriental Languages in the concerned subject
2	Junior Lecture in Hindi	M.A. in Hindi
3	Junior Lecturer in English	M.A. in English
4	Junior Lecture in Urdu	M.A. in Urdu

Sl. No.	Name of Post	Subjects in Post Graduation
5	Junior Lecturer in Mathematics	M.A./M.Sc.in Mathematics/ Applied Mathematics/ Statistics/ Applied Statistics/A.O. Maths of Nagarjuna University/Pure Mathematics of Central University of Hyderabad/ Maths & Computer Science <b>Note: Provided these candidates should have studied Mathematics as one of the subjects at B.A/B.Sc. level</b>
6	Junior Lecturer in Physics	M.Sc. in Physics/ Applied Physics/ Electronics/ Applied Electronics of Osmania University / Nuclear Physics of Andhra University/ Meteorology and Oceanography / Engineering Physics and Instrumentation of Osmania University / M.Sc. (Tech) Co-Physics <b>Note: Provided these candidates should have studied the subject Physics at B.Sc. level.</b>  M.Sc. (Technology) Engineering Physics with any specialisation/ M.Sc. (Tech) Instrumentation/ Any Physics based on M.Sc. Course/M.Sc. (Engineering Physics with instrumentation) of Kakathiya University/ M.Sc. (Technical Engineering Physics) of S.V. University / M.Sc. Astro Physics of Osmania University.
7	Junior Lecturer in Chemistry	M.Sc. in Chemistry/ In organic Chemistry/Analytical Chemistry / Nuclear Chemistry/Organic Chemistry/ Physical Chemistry/ Environmental Chemistry/Mineral Chemistry/ Fertilisers and Agro Chemicals/Phyto Chemistry and Forest Products/ Chemistry of food and Drugs/Synthetic Chemistry/ Applied Chemistry/ Associate ship exam in Chemistry/ Medicinal Chemistry of Osmania University <b>Note: Provided these candidates should have studied the Chemistry subject at B.Sc. Level</b>
8	Junior Lecturer in Botany	M.Sc. in Bio Science of Andhra University/Biological Sciences of Osmania University/Plant Science of Krishnadevaraya and Osmania University/ Environmental Biology of Nagarjuna University/ Modern Biology of Maratwada University/ Experimental Biology of Saurashtra University/Bio Technology/ Life Sciences of Indore University/ Marine Biology of Andhra University/ Botany/ Micro-Biology <b>Note: Provided these candidates should have studied Botany subject at their graduation level.</b>  M.Sc. Life Sciences of Berhampur University provided that the candidates opted for plant sciences in 2 <sup>nd</sup> year/ M.Sc. Plant Science of University of Hyderabad.
9	Junior Lecturer in Zoology	M.Sc. in Zoology/Biological Sciences of Andhra University/Biological Sciences of Osmania University /Animal Biology of S.V. University/Environmental Biology of Nagarjuna University/Marine Biology of Karnataka University/Modern Biology of Marathwada University/Experimental Biology of Saurashtra University/Life Science of Indore University

Sl. No.	Name of Post	Subjects in Post Graduation
		<b>Note: Provided these candidates should have studies Zoology as one of the subjects at their graduation level.</b>  M.Sc. in Animal Science of Central University of Hyderabad/Bio Sciences of Mangaluru University/(Life Sciences) Specialization in Animal Science of Berhampur University
10	Junior Lecturer in History	M.A. in History/Ancient History and Archaeology  <b>Note: Provided these candidates should have studies History as one of the subjects at B.A. Degree level. M.A. Indian Culture of S.V. University/M.A. History, Archaeology and culture of Dravidian University/M.A. Ancient Indian History and Archaeology of S.V. University/M.A. History, Archaeology of Andhra University.</b>
11	Junior Lecturer in Economics	M.A. in Economics/ Applied Economics/ Mathematical Economics/Rural Development
12	Junior Lecturer in Commerce	M.Com. in Commerce/M.F.A. (Master of Financial Analysis) renamed as M.Com (Financial Accounting) of Kakathiya University having B.Com at graduation level should alone be considered.
13	Junior Lecturer in Civics	M.A. in Political Science/Public Administration

**NOTE:** - Subject wise vacancy position is available at ANNEXURE-I and candidates may apply as per the vacancy position in their concerned subject.

**N.B:-i) Distance Education:** - The Applicants who have obtained requisite Juniors through Open Universities / Distance Education mode are required to have recognition by the University Grants Commission / AICTE / Distance Education Bureau as the case may be. Unless such Juniors have been recognised by the relevant Statutory Authority, they will not be accepted for the purpose of Educational Qualification vide its Public Notice No. F.27-1/2012 (CPP-II), Dt. 27/06/2013. (A university established or incorporated by or under a State act shall operate only within the territorial jurisdiction allotted to it under its Act and in no case beyond the territory of the State of its location). The onus of proof of recognition by the relevant Statutory Authority that their Juniors / Universities have been recognised rests with the candidate.

- i) **Equivalent Qualification:** At the time of verification of certificates, if it is noticed that any applicant possessing other than prescribed qualification and claims it as equivalent to the prescribed qualifications, then an Expert Committee will be constituted by the Board and the Board will take a decision based on the report of the Expert Committee.
- 6) **AGE:** The candidates should possess Minimum 18 years & Maximum 44 years. The age is reckoned as on 01/07/2023 (Rule-12(1)(a)(v) of State and Subordinate Service Rules).

(As per G.O.Ms.No.42, G.A. (Ser.A) Department, Dt. 19/03/2022 the upper age limit is raised up to 10 years i.e., from 34 years to 44 years)

**Minimum Age (18 years):** The applicant should not be born after **01/07/2005.**

**Maximum Age (44 years):** The applicant should not be born before **02/07/1979.**

The Upper Age limit will be relaxed as per Rules and will be calculated on the above lines.

**Age Relaxations:** The upper age limit prescribed above is however relaxable in the following cases:

Sl. No.	Category of candidates	Relaxation of age permissible
1	2	3
1.	Telangana State Government Employees (Employees of TSRTC, Corporations, Municipalities etc. are not eligible).	5 Years based on the length of regular service.
2.	Ex-Service men	3 years & length of service rendered in the armed forces.
3.	N.C.C. (who have worked as Instructor in N.C.C.)	3 Years & length of service rendered in the N.C.C.
4.	SC/ST/BCs and EWS	5 Years
5.	Physically Handicapped persons (Except for Physical Director)	10 Years

**Note:** Provided that the persons referred at Sl.No. 2&3 above shall, after making deductions referred to in Sub Rule-12(c)(i)&(ii) of Telangana State and Subordinate Service Rules, not exceed the maximum age limit prescribed for the post.

- i) 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.
- ii) The age relaxation for NCC, a Person who was recruited as a whole-time Cadet Corpse Instructor on or after the 1st January, 1963 on his discharge from the NCC either before or after the expiry of the initial or extended tenure of his office in NCC having served for a period of not less than six months prior to his release from the NCC.

**N.B.** However, no person shall be eligible if he/she crossed 61 years of age (Superannuation age) after availing the eligible age relaxations as on 01/07/2023.

- 7) **(a) FEE:** (Remittance of Fee) The applicant shall pay Rs.1200/- (Rupees Twelve Hundred Only) towards Application Processing Fee and Examination Fee. However, local applicants of Telangana State belonging to SC, ST, BC, EWS and PH have to pay Rs.600/- (Rupees Six Hundred Only) towards Application Processing Fee and Examination Fee.

**Note:** EWS, BCs, SCs and STs belong to other States are not entitled for any fee concession and they are not entitled for any kind of reservation.

**b) Mode of Payment of Fee:**

The Fee mentioned above is to be paid online duly following online instructions displayed in the Board Website.

The fee once remitted shall not be refunded or adjusted under any circumstances. Failure to pay the examination fee will entail total rejection of application.

**PARA-II: CENTERS FOR THE WRITTEN EXAMINATION:**

- 1) The examinations will be held at all District Head Quarters. However, the Board reserves the right either to increase or decrease the number of Centers.
- 2) However, the Board reserves the right to abolish / create new centre or centers for administrative reasons. Request for change of the centre will not be entertained.

**PARA-III: HOW TO APPLY:**

**A) HOW TO SUBMIT THE APPLICATION FORM:**

- i. The Applicants have to read the **User Guide** for online submission of applications and then proceed further.

**Step-I:** Before applying, the Applicant has to visit the website ([www.treirb.telangana.gov.in](http://www.treirb.telangana.gov.in)) and fill the OTR application if not registered earlier to obtain TREIRB ID. (However, original certificates have to be produced for verification at the time of scrutiny before finalizing the selection list). While filling the OTR, the applicant has to ensure that there are no mistakes in it. The Board will not held responsible for the mistakes, if any, made by the applicants. If already registered in the OTR, the applicant can directly access the application form. The applicant is instructed to fill his/her application form himself/herself with utmost care instead of delegating to others.

**Step-II:-**

- i) In order to fill the application form, the Applicant has to visit the website ([www.treirb.telangana.gov.in](http://www.treirb.telangana.gov.in)) and Click on the online Application Link provided on the Website, then enter TREIRB ID / User ID and Password and login to proceed further.
- ii) After login click on the Online Application submission option. After selecting the Fee payment option, the Applicant has to verify the details fetched from OTR database pertaining to Name, Date of Birth, Community, Gender & etc., displayed on the screen.

**STEP III:** - The applicant shall pay the prescribed fee as specified through any of the three modes viz. Debit Card, Credit Card and Net Banking. Separate Instructions have to be followed for each mode of payment.

**STEP IV:** After payment of fee, the candidate has to fill the entire application form, such as Society Preference, Examination Centre opted, required qualification Etc and submit the application. After submission the PDF Application will be generated which contains the particulars furnished by the candidates. The ID No in the PDF Application form has to be quoted for future reference/correspondence.

- i) Applicant shall note that, the details available in OTR database at the time of submitting the application will only be considered for the purpose of this notification. Hence, the candidate is advised to update / edit the details in OTR form before submitting online application form. The Time and Date of submission of the application will be printed on the application PDF form. Changes made by the applicant in OTR details after submission of application form will not be considered for the purpose of this Notification.
- ii) The Board is not responsible for any discrepancy in Bio-data particulars submitted in the application form. The applicant is therefore advised to strictly follow the instructions and User Guide in his/her own interest before submitting the application.
- iii) The applicant compulsorily fill-up all relevant columns of the application form. The eligibility of the applicant will be decided based on the particulars given in the online application form in terms of notification and it is validated by the software and it will be taken as final. For eg: If an applicant fails to update the OTR regarding his/her Sports status before applying, the applicant shall not be considered for Sports vacancies. Applicant should therefore be very careful, while entering the data and uploading/submission of the application form online.
- iv) Incomplete/incorrect application form will be rejected. The information, if any, furnished by the applicant subsequently, in any form, will not be entertained by the Board under any circumstances unless specifically called for. Applicant should be careful in filling-up the application form and submission. If any lapse is detected during the scrutiny/verification of certificates, the candidature will be rejected even though he/she comes through the final stage of recruitment process or even at a later stage.
- v) Before uploading/submission of application form, the applicant shall 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.
- vi) The Board will not make any corrections in the application form submitted by the applicant.
- vii) Applicant must check the details click on Pay Button after filling and preview of the application. Otherwise the application particulars will not be saved in the database.
- viii) Hand written/Typed/Photostat copies/outside printed Application Form will not be entertained. The Board will not be held responsible for the applications submitted in any other mode.
- ix) For any Technical problems related to Online submission and downloading of Hall-Tickets please contact\_040-23317140 (Call Time: 10.30 A.M to 1.00 P.M & 1.30 P.M to 5.00 P.M) or mail to [treirb.helpline@gmail.com](mailto:treirb.helpline@gmail.com)
- x) For any General Queries please contact office of the TREI-RB Phone No.040-23317140 (Call Time: 10.30 A.M to 1.00 P.M & 1.30 P.M to 5.00 P.M) or mail to [helpdesk-treirb@telangana.gov.in](mailto:helpdesk-treirb@telangana.gov.in).

**PARA- IV GENERAL PROVISIONS:**

1. The applicants compulsorily fill-up all relevant columns of application and submit application through online only. The particulars made available in the website shall be processed through computer and the eligibility decided in terms of notification.

2. The applications will be received online in the prescribed proforma available in the website for a stipulated period of time and the Board will not be held responsible for any kind of discrepancy.
3. Applicant must upload his/her own scanned photo and signature through JPG format.
4. The applicant shall not furnish any particulars that are false, tampered, fabricated or suppress any material / information while submitting application online. For such illegal activities, criminal action shall be initiated against them.
5. All the essential certificates issued by the competent authority of Telangana State shall compulsorily be kept with the applicants to produce as and when required to do so. Failure to produce the required certificates on the day of verification will lead to disqualification for further exams as well.
6. **Important** - The claim of the candidates with regard to the date of birth, educational/technical qualifications, experience and community are accepted only provisionally on the information furnished by them in their application form and is subject to verification and satisfaction of the Board. Mere admission to any test or interview or inclusion of the name of a candidate in a Merit List will not confer on the candidate any right for appointment. The candidature is, therefore, provisional at all stages and the Board reserves the right to reject candidature at any stage of the selection even after the advice has been made.
7. The applicant shall be willing to serve anywhere in Telangana State.
8. **NOTE ON UTILISING EDIT OPTION BY CANDIDATES:** The applicant shall follow the TREIRB website regularly to utilize the edit option if given by the Board at any point of time. No separate advertisement / notification will be issued in any news paper. No separate individual intimation shall be given.
9. **INVALIDATION OF OMR ANSWER SHEET:-**
  - a. If any applicant fails to bubble or wrongly bubble the Booklet Series, Hall Ticket Number in the OMR Answer Sheet, such Answer Sheets are invariably invalidated as the answer sheets are valued by Optical Mark Reader. This stipulation is to avoid any sort of human interface in evaluation of the Scripts.
  - b. Tampering of OMR answer sheet by using whitener, eraser, blade and chalk powder etc., and also tampering of barcode by any means leads to invalidation.
  - c. No request for reconsideration of such rejected/invalidated cases will be entertained.
10. This Recruitment is entrusted to TREI-RB by the Government of Telangana along with Finance clearance vide G.O.Ms. No. 88, Finance (HRM.VII) Department, Dt: 17.06.2022, G.O.Ms.No.93, Finance (HRM.VII) Department, Dt: 17.06.2022, G.O.Ms.No.96, Finance (HRM.VII) Department, Dt: 17.06.2022 and G.O.Ms.No.11, Finance (HRM.VII) Department, Dt: 27.01.2023.
11. **A) The following certificates shall be kept ready by the candidates for the purpose of verification and also at the time of making online application.**
  - i). PDF Application form
  - ii). Hall Ticket.
  - iii). Aadhar Card.
  - iv). Proof of Educational Qualifications.
  - v). S.S.C / CBSE / ICSE (For Date of Birth)
  - vi). School Study Certificate (1st to 7th Class)
  - vii). Certificate of Residence (where the Candidate has not studied in Educational Institution) (1st to 7th Class period) obtained from competent authority of Telangana Government.
  - viii). No Objection Certificate from Employer (even if employed at any later stage of recruitment).
  - ix). Service Certificate (If any employee claimed Age relaxation).
  - x). Certificate claiming sports reservation.
  - xi). Certificate claiming Ex-servicemen for age relaxation.
  - xii). Any other certificate required.

**The following Certificates shall be obtained from Govt. of Telangana in prescribed proforma for the purpose of verification.**

- xiii). Community Certificate for BCs, SCs & STs (Issued in the name of candidate with Father Name is only acceptable.) obtained from competent authority of Telangana Government.



- xiv). Non-Creamy Layer Certificate for BCs as per Form- VIIB vide G.O. Ms. No. 34 BC Welfare (OP) Department Dt.08/10/2015 and G.O. Ms. No. 20 BC Welfare (OP) Department Dt.31/10/2017 (Certificate issued in the name of candidate as S/o OR D/o is only acceptable.) obtained from competent authority of Telangana Government.issued after Date: 01/04/2023.
- xv). Income certificate for the Financial Year prior to the year of application issued by the competent authority of Telangana government for claiming EWS reservation.
- xvi). Certificate of Residence / Nativity (where the Candidates not studied in School / Private Study).

**B) Guidelines for evaluation of various disabilities and procedure for certification (mentioned in G.O.Ms.No.31, WD, CW & (DW) Dept, Dt:01-12-2009).**

- a. Physically Challenged candidates who are claiming reservations under Disability quota must note that they will be referred to State Medical Board (Appellate Medical Authority) after completion of certificate verification. The report of Medical Board is final.
- b. Request for re-medical-examination by the State Medical Board (Appellate Medical Authority) for assessment of disability will not be entertained.

**PARA-V:- IMPORTANT LEGAL PROVISIONS GOVERNING THE RECRUITMENT PROCESS:**

1. **Vacancies:** The recruitment will be made to the vacancies notified before the examination only. There shall be no waiting list as per G.O.Ms.No. 81, General Administration (Ser.A) Department, Dated 22/02/1997. If additional vacancies are reported by the Government, an addendum to that effect will be issued.
2. Unfilled and non-joining vacancies will be carryforwarded to next recruitment.
3. **Recruitment:-** The recruitment will be processed as per the Notification and also as per the Byelaws/Service Regulations, B.O.G. resolutions of the Residential Educational Institutions Societies and orders/Instructions issued by the Government and also as decided by the Board from time to time.
4. **Rules:** All are informed that the various conditions and criterion prescribed herein are governed by the General Rules of existing State and Subordinate Service Rules, 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 in force.
5. **Government Orders:-** The TREI-RB is empowered for taking up recruitment for Teaching & Non-teaching posts in all the Residential Societies i.e, TREIS/TSWREIS/TTWREIS/MJPTBCWREIS/TMREIS under the orders of Government of Telangana vide G.O.Ms.No.22, dated:27.04.2018 of the Scheduled Castes Development (RS) Department. The Board will follow the relevant laws, rules, regulations and executive instructions and all enabling legal provisions of the Government of Telangana regarding the conduct of examinations for appointment to the posts notified herein by TREI-RB duly following the principle of order of merit with reference to relevant statutory provisions of the Government of Telangana and ensuring that the whole recruitment and selection process is carried out with utmost secrecy and confidentiality so as to ensure that the principle of merit is followed. A candidate shall be disqualified for appointment, if himself / herself 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.
6. **MULTI-Zonal post:** - These posts are classified into Multi Zonal posts and the local reservation is applicable as per G.O.Ms.No.124, General Administration (SPF-MC), Department, Dated 30-08-2018.
7. **Local:-**The Local Reservations shall be followed as per the Telangana Public Employment (Organization of Local Cadres and Regulation of Direct Recruitment) Order, 2018, G.O.Ms.No.124, General Administration (SPF-MC), Department, Dated 30-08-2018 as amended vide G.O.Ms. No. 128, G.A. (SPF-I) Dept., Dated: 30/06/2021 and other orders issued by the Government of Telangana from time to time and other related G.Os, Rules etc., applicable.
8. **Employee Details:-** The persons already in Government Service/ Autonomous bodies/ Government aided institutions etc., whether in permanent or temporary capacity or as work charged employees are required to inform in writing to their Head of Office / Department, as the case may be and required to submit the "No objection" from the concerned Head of Office / Department to the Board as and when required to do so.

9. **A) Penal Action:** - The Board has taken decision to adopt the Telangana Public Examinations (Prevention of Malpractices and Unfair means) Act 25/97 and empowered to invoke its penal provisions for matters connected therewith or incidental thereto.
- B) Disqualification for appointment:** A candidate shall be disqualified at any stage as per Rule-12(4) of Telangana State and Subordinate Rules.
10. **Caste & Community:** The candidates belonging to SC & ST are required to produce Community Certificate issued by the competent authority (obtained from Government of Telangana State) in terms of G.O.Ms No. 58, SW (J) Dept., dt: 12/5/97 read with G.O. Ms. No. 5 Scheduled Castes Development (POA.A2) Dept., dt. 08/08/2014, G.O. Ms. No. 11 Scheduled Castes Development (POA.A2) Dept., dt. 17/09/2014 and G.O. Ms. No. 2 Scheduled Castes Development (POA.A2) Dept., dt. 22/01/2015. As per Rule-2(29) of T.S. State and Subordinate Service Rules. Explanation: No person who professes a religion different from Hinduism, the Sikh or Buddhism shall be deemed to be as member of a Scheduled Caste. (b)The candidates belonging to Backward Classes are required to produce Community Certificate (BC-A, BC-B, BC-C, BC-D & BC-E) issued by the Competent Authority in the State of Telangana obtained through Mee-Seva vide G.O. Ms. No. 16 BCW (OP) Dept., Dt. 11/03/2015. (c) Income Certificate for claiming EWS Reservation issued by the Tahsildar (Government of Telangana) vide G.O. Ms. No. 244 General Administration (Ser.D) Department, Dt. 24/08/2021 and orders and instructions issued by the Government from time to time.
11. **Reservation:-**
- i) The Rule of Reservation will be applicable in terms of General Rule 22 & 22 (A) of Telangana State and Subordinate Service Rules, the Government Orders / Instructions and the Court orders, if any, in that regard, before completion of selection process.
  - ii) As per the Government orders in G.O.Ms.No.161 Education, dated 04.05.1989 of PECET regulations “no student with any disability is eligible for admission into Physical Education Courses”. In view of the above, no physically challenged quota should be extended for the PD/PET posts. The posts earmarked for PH should be filled with eligible meritorious candidates as per the recruitment guidelines issued in G.O.Ms.No.91, School Education (P.E.Ser.II) Department, dated 03.11.2012.
  - ii) Reservation to Ex-Service men is applicable as per rule 22 of State and Subordinate Service rules and in terms of G.O.Ms.No.310 GA (Ser.D) Dept., Dt.19-07-2005.
  - iii) Reservation to Women will apply as per Telangana State and Subordinate Service Rules and in terms of G.O.Rt.No.1274, G.A (Ser-B) Department, Dated 04-06-2016:
  - iv) As per G.O.Rt.No.1274, G.A (Ser-B) Department, Dated 04-06-2016:
    - a) Women staff shall only be recruited in all cadres of posts in the Schools/ Institutions meant for Girls, in terms of Sub-Rule (3) of rule 22-A of Telangana State and Subordinate Service Rules.
    - b) The Schools / Institutions meant for Boys shall be treated as General Schools / Institutions and the posts in such Schools / Institutions shall be filled with men and women candidates, in terms of sub-rule (2) of rule 22-A of Telangana State and Subordinate Service Rules.
    - c) Separate rosters in each cadre shall be maintained for General (Boys) Schools / Institutions and for Girls Schools / Institutions, in accordance with sub-rules (2) and (3) of rule 22-A of Telangana State and Subordinate Service Rules.
    - v) Reservation to BC-E group will be subject to the adjudication of the litigation before the Honorable Courts including final orders in Civil Appeal No: (a) 2628-2637 of 2010 in SLP. No. 7388-97 of 2010, dated. 25/03/2010 and orders from the Government.
    - vi) The reservation to Meritorious Sports Person is applicable as per the amendments made to State and Subordinate Service Rules as per G.O.Ms.No.107, General Administration (Ser.D) Dept., Dt. 27-07-2018 that is in Rule-2, for sub-Rule (20) and in Rule-22 (i) in sub-Rule (2), for Class-D. In implementing the reservation to Meritorious Sports Person as per G.O. Ms. No.05 YAT&C(Sports) Department, Dt. 14/05/2018, or as may be revised by the Government from time to time shall be followed.
  - vii) **Economically Weaker Sections:-** The EWS reservation is applicable as per G.O. Ms. No. 243 & 244 GA (SER.D) Dept., Dt. 24/08/2021.
  - viii) As per G.O.Ms.No.130, General Administration (Ser.D) Department, Dt.09.11.2022, the reservations for Scheduled Tribes enhanced from 6% to 10% read with G.O.Ms.No.135, General Administration (Ser.D) Department, and Dt.23.11.2022.

**Note:-Candidates producing Certificates issued by the Competent Authorities in Telangana State alone are eligible to claim various reservations like SC/ST/BC/ EWS etc.**

**12. Legal Issues:** Any legal issues arising out of this Notification shall fall within the Jurisdiction of Hyderabad, Tealangana State only.

**PARA-VI: RESERVATION TO LOCAL CANDIDATES:**

Reservation to the Local candidates is applicable as provided in the Rules and as amended from time to time as in force as on the date of notification. The candidates claiming reservation as Local candidates should obtain the required Study certificates (from I Class to VII Class) (OR) Residence Certificate in the Proforma only for those candidates who have not studied in any Educational Institutions as the case may be. The relevant certificates with authorized signature should be kept with the candidates to produce as and when required.

**DEFINITION OF LOCAL CANDIDATE: -**

- (1) Local Reservation (95%) is applicable as per Para-8 of G.O.Ms.No.124 General Administration (SPF-MC) Department, dated :30.08.2018).
- (2) **Local Candidate as per Para-7 of G.O.Ms.No.124 General Administration (SPF-MC) Department, Dated :30.08.2018:-**
  - 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 posts,-
      - (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, firstappeared.
    - (b) In cases where no minimum educational qualifications 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 preceding the date on which the post is notified for recruitment. Explanations:- For the purpose of this 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 Seventh Class examination or an examination declared by the State Government to be equivalent to the Seventh Class examination; whichever is lower;
      - (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 residedand not with reference to the residence of his parents or other guardian.
- (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 the 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,-
      - (A) Such local area where he has studied for the maximum period out of the said period of seven years; or

- (B) 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 year 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,-
- (A) Such local area where he has resided for the maximum period out of the said period of seven years; or
- (B) Where the periods of his residence in two or more local areas are equal, such local area 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 in two or more local areas are equal such local area where he has resided last in such equal periods.

The following are the Present Zones in the Telangana State vide G.O.Ms. No. 124, G.A. (SPF-MC) Dept., Dated: 30/08/2018 and amended vide G.O.Ms. No. 128, G.A. (SPF-I) Dept., Dated: 30/06/2021 read with G.O.Rt.No.74, Revenue (DA-CMRF) Dept., dt:12/08/2021:

<b>Multi Zone- I</b>	Asifabad-Kumrambheem, Mancherial, Peddapalli, Jayashankar-Bhupalapalli-, Mulugu Districts
	Adilabad, Nirmal, Nizamabad, Jagityal Districts
	Karimnagar, Sircilla-Rajanna, Siddipet, Medak, Kamareddy Districts
	Kothagudem- Bhadradi, Khammam, Mahabubabad, Hanumakonda (Warangal Urban), Warangal (Warangal Rural) Districts
<b>Multi Zone- II</b>	Suryapet, Nalgonda, Bhongir-Yadadri, Jangaon Districts
	Medchal-Malkajgiri, Hyderabad, Ranga Reddy, Sanga Reddy, Vikarabad Districts
	Mahaboobnagar, Narayanpet, Jogulamba-Gadwal, Wanaparathi, Nagarkurnool Districts

**PARA-VII: SCHEME OF EXAMINATION:** - The Scheme and Syllabus for the examination has been shown in **ANNEXURE-II**.

**PARA-VIII: RESOLVING OBJECTIONS RELATED TO QUESTIONS, KEY AND OTHER MATTERS OF OBJECTIVE TEST:**

- i) The Board publishes the key on its website after conduct of the objective test. Any objections with regard to the questions/Key shall be filed within the stipulated period through the link provided in the Board website, after publication of the key. The objections received physically in the form of representations or through emails are not entertained in any circumstances. Any objection(s) received after the last date for receipt of objections on key would not be entertained.
- ii) However, for each objection raised by the candidate he/she required to pay Rs.500/- (Rupees Five Hundred only) online through payment gateway duly following online instructions.
- iii) The objections received in the prescribed proforma within due date will be referred to Expert Committee for opinion to take appropriate decision thereon by the Board. Final key will be hosted as per decision of the Board.
- iv) Objections on final key shall not be entertained.
- v) The marks for the deleted questions, if any, will be awarded to each candidate proportionately based on his performance on the remaining questions and the marks would be considered upto 3<sup>rd</sup> decimal figure, to determine the merit of the candidates.
- vi) After completion of Examination, the Images of OMR Sheets will be hosted on the Board's Website ([www.treirb.telangana.gov.in](http://www.treirb.telangana.gov.in)) for reference. Candidates by entering the required Login credentials can download the Images of OMR Sheets. Candidates are

advised to retain their Images of OMR Sheets for future purpose until completion of the recruitment process. Duplicate Images of OMR Sheets will not be issued under any circumstances.

**PARA-IX: PROCEDURE OF SELECTION:**

THE FINAL SELECTION FOR THE POST WILL BE BASED ON TOTAL MARKS SECURED IN THE WRITTEN EXAMINATION OF PAPER-I, II, III AND DEMONSTRATION.

1. The applicants will be subjected to written examination of Paper-I, Paper-II and Paper-III of Objective Type and candidates shall be called in the order of merit for demonstration in the respective categories duly following the Rule of reservation in the Ratio of 1:2.
2. There will be penalty for wrong answers marked in the objective tests of Paper-I , II & III. For each question for which a wrong answer is given by the candidate, one fourth ( $\frac{1}{4}$ ) of the marks assigned to that question will be deducted as penalty to arrive at corrected score. If a question is left blank, i.e., if no answer is marked by the candidate, there will be no penalty for that question.
3. Marks secured in Paper-I, Paper-II and Paper-III and marks obtained in demonstration will be counted for preparation of final Merit list.
4. The candidates will be selected and allotted to the Residential Educational Institutions Societies in Telangana State as per the option exercised and as per their rank in the merit list and as per Multi-zonal preference for allotment of candidates against available vacancies after verification of Certificates, Community and Category wise for the vacancies available as required.
5. The appearance in all papers in the Written Examination and Demonstration as per rules is compulsory. Absence in any paper/papers/Demonstration will automatically render his/her candidature as disqualified.
6. Candidates have to produce Original documents and other particulars on the day of verification itself. If candidate fails to produce any of the required certificates and if the particulars furnished by him/her in the Application do not tally with the Original documents produced by him/her, then his/her candidature will be rejected/disqualified without any further correspondence. As candidature for the recruitment is processed through Computer/Electronic devices based on the particulars furnished in the Application Form, the candidate is advised to fill in all the relevant particulars carefully.
7. While the Board calls for preference of candidates in respect of posts/R.E.I. Societies 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 Board's powers enjoyed under G.O.Ms.No.22, Scheduled Castes Development Department, dated 27.04.2018. Therefore, the Board has the power to assigning a successful candidate to any of the notified posts for which he is considered to be qualified and eligible, subject to fulfilling the selection criterion.
8. The candidates will be selected and allotted to Multi-Zone as per their merit and order of Preference (web-options) against the vacancies available.
9. The selection of candidates will be subject to their being found medically fit in the appropriate Medical Examination, and if he/she is of sound health, active habits free from any bodily defect or infirmity.

**PARA-X: DEBARMENT:**

- a) 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 incorrect information or making false declaration regarding his/her eligibility at any stage or suppressing any information is liable to be debarred for five years from appearing for any of the examinations conducted by the Board and their candidature for the recruitment shall be summarily rejected.
- b) The Penal Provisions of Act 25/97 published in the Telangana Gazette No.130, Part-I.A Extraordinary dated: 01.06.2016 shall be invoked if malpractice and unfair means are noticed at any stage of the Recruitment.
- c) The Board is vested with the powers vide G.O.Ms.No.22, Scheduled Caste Development Department, dated 27.04.2018 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 duty cast on the Board by the Government of Telangana in such manner or by such action as to violate or likely to violate the fair practices followed and ensured by the Board will be sufficient cause for rendering such

questionable means as ground for debarment and penal consequences as per law and rules and as may be decided by the Board.

- d) Any candidate is or has been 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, will be debarred permanently from any exam or selection held by the TREI-RB in the Telangana State.
- e) The applicants are not allowed to bring any Electronic devices or Gadgets such as Smart/Mobile Phones, Calculators, Tablets, iPad, Bluetooth, Pagers, Programmable Devices or Storage Media like Pen-drive, Smart Watches, Camera etc., 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. Loaning and interchanging of articles among the applicants is not permitted in the examination hall and any form of malpractice will not be permitted in the exam hall and applicants are advised not to bring any of the banned items including mobile phones to the venue of the examination, as arrangement for safe keeping cannot be assured.

**PARA XI :( A) MEMORANDUM OF MARKS: -**

Memorandum of Marks will be issued on payment of Rs.200/- (Rupees Two Hundred Only) through Online Payment in favour of the E.O.(Convenor), TREI-RB, Hyderabad. Request for Memorandum of Marks from candidates will be entertained after one month from the date of publication of the final results in TREI-RB Website. The Memorandum of Marks will be issued to the candidates for a period of 90 days only. Request for revaluation or recounting will not be undertaken under any circumstances. Invalid, disqualified, ineligible candidates will not be issued any Memorandum of Marks and fees paid by such candidates, if any, will be forfeited to TREI-RB account, without any correspondence in this regard.

In Offline examination, if any candidate fails to mark the Booklet Series, Roll Number etc., in the OMR Answer Sheet, the Board reserves the right to invalidate such Answer Sheets as Answer Sheets are valued by Optical Mark Scanner. No request for reconsideration of such rejected/invalidated cases will be entertained under any circumstances whatsoever.

**(B)** Please read the following Annexures appended to the Notification before filling the application form.

- |  |                          |
|--|--------------------------|
| <i>i) Breakup of Vacancies</i>             | <i>:(Annexure - I)</i>   |
| <i>ii) Scheme and Syllabus</i>             | <i>:(Annexure - II)</i>  |
| <i>iii) Instructions to the Candidates</i> | <i>:(Annexure - III)</i> |
| <i>iv) List of Communities</i>             | <i>:(Annexure - IV)</i>  |
| <i>v) List of the recognized sports</i>    | <i>:(Annexure - V)</i>   |

**PARA XII: SPECIAL INSTRUCTIONS TO CANDIDATES:**

Candidates are directed to follow the TREI-RB's Website ([www.treirb.telangana.gov.in](http://www.treirb.telangana.gov.in)) regularly to know the latest developments of this Recruitment and any changes/ Modifications/Addendum/Corrigendum, dates of Examination, calling of candidates for verification of Certificates/ Interviews/Results etc. Candidates are advised to go through the Instructions to Candidates enclosed to this Notification at Annexure-III.

**PARA-XIII: TREI-RB'S DECISION TO BE FINAL:**

The decision of the Board in all aspects and in 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 vide G.O.Ms.No.22, Scheduled Caste Development Department, dated 27.04.2018. Board also reserves its right to alter and modify 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 arose during the course of this process, or as deemed necessary by the Board at any stage.

Hyderabad,  
Date: .04.2023.

Executive Officer (Convenor),  
TREI-RB, Hyd.

## Junior Lecturers - General

ANNEXURE - I  
(GENERAL RECRUITMENT)BREAK UP OF VACANCY POSITION FOR THE POST OF JUNIOR LECTURERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES

Society	Subject	Multi Zone	OC		EWS		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH		Sports		Ex.Ser		Total		Grand Total (G+W)								
			G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	General	Women									
TSWREIS (Junior Lecturers - General)	Telugu	MZ-I	2	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	03	05	08						
		MZ-II	2	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	04	05	09							
	English	MZ-I	2	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	04	05	09							
		MZ-II	2	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	04	05	09								
	Mathematics	MZ-I	2	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	03	05	08							
		MZ-II	2	1	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	04	06	10								
	Zoology	MZ-I	2	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	03	04	07							
		MZ-II	2	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	04	05	09								
	Botany	MZ-I	2	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	03	05	08							
		MZ-II	2	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	03	04	07								
	Physics	MZ-I	2	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	03	04	07							
		MZ-II	2	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	03	05	08								
	Chemistry	MZ-I	2	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	03	05	08							
		MZ-II	2	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	03	05	08							
	Economics	MZ-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
	Civics	MZ-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
	Commerce	MZ-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
<b>Total :</b>			<b>28</b>	<b>14</b>	<b>5</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>68</b>	<b>115</b>

## Junior Lecturers - Women

ANNEXURE - I  
(GENERAL RECRUITMENT)**BREAK UP OF VACANCY POSITION FOR THE POST OF JUNIOR LECTURERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES (WOMEN)**

Society	Subject	Multi Zone	OC(W)	EWS (W)	SC(W)	ST(W)	BC-A (W)	BC-B (W)	BC-C (W)	BC-D (W)	BC-E (W)	PH (W)	Sports (W)	Ex.Ser (W)	Total
TSWREIS (Junior Lecturers - Women)	Telugu	MZ-I	5	1	2	1	1	1	0	0	0	1(VH)	0	0	12
		MZ-II	3	1	2	1	1	0	0	0	0	1(VH)	0	0	09
	English	MZ-I	4	1	2	1	1	1	0	0	0	1(VH)	0	0	11
		MZ-II	4	1	2	1	1	1	0	0	0	1(VH)	0	0	11
	Mathematics	MZ-I	3	1	2	1	1	0	0	0	0	1(VH)	0	0	09
		MZ-II	3	1	2	1	1	0	0	0	0	1(VH)	0	0	09
	Zoology	MZ-I	3	1	2	1	1	1	0	0	0	1(VH)	0	0	10
		MZ-II	3	1	2	1	1	0	0	0	0	1(VH)	0	0	09
	Botany	MZ-I	4	1	2	1	1	1	0	0	0	1(VH)	0	0	11
		MZ-II	3	1	2	1	1	0	0	0	0	1(VH)	0	0	09
	Physics	MZ-I	4	1	2	1	1	1	0	0	0	1(VH)	0	0	11
		MZ-II	3	0	2	1	1	0	0	0	0	1(VH)	0	0	08
	Chemistry	MZ-I	4	1	2	1	1	1	0	0	0	1(VH)	0	0	11
		MZ-II	3	0	2	1	1	0	0	0	0	1(VH)	0	0	08
	History	MZ-I	0	0	0	0	0	0	0	0	0	0	0	0	0
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0
	Economics	MZ-I	0	0	0	0	0	0	0	0	0	0	0	0	0
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0
	Civics	MZ-I	0	0	0	0	0	0	0	0	0	0	0	0	0
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0
Commerce	MZ-I	0	0	0	0	0	0	0	0	0	0	0	0	0	
	MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total</b>			<b>49</b>	<b>12</b>	<b>28</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>138</b>



## Junior Lecturers - General

ANNEXURE - I  
(GENERAL RECRUITMENT)**BREAK UP OF VACANCY POSITION FOR THE POST OF JUNIOR LECTURERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES**

Society	Subject	Multi Zone	OC		EWS		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH		Sports		Ex.Ser		Total		Grand Total (G+W)			
			G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	General	Women				
TTWREIS (Junior Lecturers - General)	Telugu	MZ-I	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6
		MZ-II	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	
	English	MZ-I	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	
		MZ-II	2	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	3	4	7		
	Mathematics	MZ-I	2	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	4	5	9		
		MZ-II	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	2	4	6		
	Zoology	MZ-I	2	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	4	5	9		
		MZ-II	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2		
	Botany	MZ-I	2	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	3	5	8		
		MZ-II	2	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	3	4	7		
	Physics	MZ-I	2	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	3	5	8		
		MZ-II	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	2	4	6		
	Chemistry	MZ-I	2	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	3	4	7		
		MZ-II	2	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	3	4	7		
	Economics	MZ-I	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	2	4	6		
		MZ-II	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2		
	History	MZ-I	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2		
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Civics	MZ-I	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	2	4	6		
		MZ-II	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3			
Commerce	MZ-I	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4			
	MZ-II	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2			
<b>Total</b>			<b>30</b>	<b>21</b>	<b>2</b>	<b>0</b>	<b>8</b>	<b>21</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>75</b>	<b>115</b>	

## Junior Lecturers - Women

ANNEXURE - I  
(GENERAL RECRUITMENT)**BREAK UP OF VACANCY POSITION FOR THE POST OF JUNIOR LECTURERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES (WOMEN)**

Society	Subject	Multi Zone	OC(W)	EWS (W)	SC(W)	ST(W)	BC-A (W)	BC-B (W)	BC-C (W)	BC-D (W)	BC-E (W)	PH (W)	Sports (W)	Ex.Ser (W)	Total	
TTWREIS (Junior Lecturers - Women)	Telugu	MZ-I	4	1	2	1	1	1	0	0	0	1(VH)	0	0	11	
		MZ-II	2	0	1	0	1	0	0	0	0	0	0	0	4	
	English	MZ-I	3	1	2	1	1	1	0	0	0	0	1(VH)	0	0	10
		MZ-II	3	0	1	0	1	0	0	0	0	0	0	0	5	
	Mathematics	MZ-I	3	0	2	1	1	0	0	0	0	0	1(VH)	0	0	8
		MZ-II	3	0	1	0	1	0	0	0	0	0	0	0	5	
	Zoology	MZ-I	3	1	2	1	1	0	0	0	0	0	1(VH)	0	0	9
		MZ-II	2	0	1	0	0	0	0	0	0	0	0	0	3	
	Botany	MZ-I	3	1	2	1	1	0	0	0	0	0	1(VH)	0	0	9
		MZ-II	3	0	1	0	1	0	0	0	0	0	0	0	5	
	Physics	MZ-I	3	0	2	1	1	0	0	0	0	0	1(VH)	0	0	8
		MZ-II	3	0	1	0	1	0	0	0	0	0	0	0	5	
	Chemistry	MZ-I	3	1	2	1	1	0	0	0	0	0	1(VH)	0	0	9
		MZ-II	3	0	1	0	1	0	0	0	0	0	0	0	5	
	History	MZ-I	2	0	1	0	0	0	0	0	0	0	0	0	0	3
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Economics	MZ-I	2	0	1	0	1	0	0	0	0	0	0	0	0	4
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Civics	MZ-I	3	0	1	0	1	0	0	0	0	0	1(VH)	0	0	6
		MZ-II	0	0	0	0	0	0	0	0	0	0	0	0	0	
Commerce	MZ-I	3	0	1	0	1	0	0	0	0	0	1(VH)	0	0	6	
	MZ-II	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
<b>Total</b>			<b>53</b>	<b>5</b>	<b>25</b>	<b>7</b>	<b>16</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>117</b>	

## Junior Lecturers - General

ANNEXURE - I  
(GENERAL RECRUITMENT)**BREAK UP OF VACANCY POSITION FOR THE POST OF JUNIOR LECTURERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES**

Society	Subject	Multi Zone	OC		EWS		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH		Sports		Ex.Ser		Total		Grand Total (G+W)	
			G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	General	Women		
MJPTBCWREIS (Junior Lecturers - General)	Telugu	MZ-I	6	3	1	1	3	2	2	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	15	12	27	
		MZ-II	5	3	1	1	2	3	1	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	12	13	25	
	Hindi	MZ-I	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	05	
		MZ-II	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	05	
	English	MZ-I	6	4	2	1	3	2	2	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	16	13	29	
		MZ-II	6	3	2	1	3	2	2	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	16	12	28	
	Mathematics	MZ-I	12	7	3	2	5	3	3	2	3	2	2	2	1	0	2	1	1	1	1	1(HH) 1(OH)	1(VH)	1	0	0	0	35	21	56
		MZ-II	11	7	3	2	5	3	3	2	2	2	2	2	1	0	2	1	1	1	1	1(HH)	1(VH)	1	0	0	0	32	21	53
	Zoology	MZ-I	6	3	2	1	3	2	2	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	16	12	28	
		MZ-II	6	3	1	1	2	2	2	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	14	12	26	
	Botany	MZ-I	6	3	2	1	3	2	2	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	16	12	28	
		MZ-II	6	3	1	1	2	2	2	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	14	12	26	
	Physics	MZ-I	6	4	2	1	3	2	2	1	2	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	17	13	30	
		MZ-II	6	4	1	1	2	2	2	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	14	13	27	
	Chemistry	MZ-I	6	3	2	1	3	2	2	1	2	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	17	12	29	
		MZ-II	5	4	1	1	2	2	2	1	1	1	1	1	1	0	0	1	0	1	0	1(VH)	0	0	0	0	13	13	26	
	Economics	MZ-I	4	2	1	0	1	1	0	1	0	1	0	1	1	0	0	0	0	0	0	0	1(VH)	0	0	0	0	7	7	14
		MZ-II	3	3	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	5	8	13
	History	MZ-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		MZ-II	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	02	
Civics	MZ-I	4	2	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	6	7	13	
	MZ-II	4	2	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	6	7	13	
Commerce	MZ-I	4	2	1	0	1	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	1(VH)	0	0	0	0	8	7	15	
	MZ-II	4	2	1	0	1	1	0	1	0	1	0	1	1	0	0	0	0	0	0	0	1(VH)	0	0	0	0	7	7	14	
<b>Total</b>			<b>120</b>	<b>70</b>	<b>30</b>	<b>16</b>	<b>47</b>	<b>40</b>	<b>30</b>	<b>22</b>	<b>19</b>	<b>24</b>	<b>16</b>	<b>22</b>	<b>17</b>	<b>0</b>	<b>4</b>	<b>14</b>	<b>2</b>	<b>14</b>	<b>3</b>	<b>20</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>290</b>	<b>242</b>	<b>532</b>	

## Junior Lecturers - Women

ANNEXURE - I  
(GENERAL RECRUITMENT)BREAK UP OF VACANCY POSITION FOR THE POST OF JUNIOR LECTURERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES (WOMEN)

Society	Subject	Multi Zone	OC(W)	EWS (W)	SC(W)	ST(W)	BC-A (W)	BC-B (W)	BC-C (W)	BC-D (W)	BC-E (W)	PH (W)	Sports (W)	Ex.Ser (W)	Total	
MJPTBCWREIS (Junior Lecturers - Women)	Telugu	MZ-I	9	2	4	3	2	2	1	1	1	1(VH)	0	0	26	
		MZ-II	9	2	4	3	2	2	1	1	1	1(VH)	0	0	26	
	Hindi	MZ-I	3	0	1	0	1	0	0	0	0	0	0	0	0	05
		MZ-II	3	0	1	0	1	0	0	0	0	0	0	0	0	05
	English	MZ-I	10	2	5	3	2	2	1	1	1	1	1(VH)	0	0	28
		MZ-II	9	2	4	3	2	2	1	1	1	1	1(VH)	0	0	26
	Mathematics	MZ-I	18	5	8	5	4	4	1	3	2	1(VH) 1(HH)	1	0	53	
		MZ-II	19	5	8	5	4	4	1	3	2	1(VH) 1(HH)	1	0	54	
	Zoology	MZ-I	9	2	4	3	2	2	1	1	1	1	1(VH)	0	0	26
		MZ-II	10	2	5	3	2	2	1	1	1	1	1(VH)	0	0	28
	Botany	MZ-I	9	2	5	3	2	2	1	1	1	1	1(VH)	0	0	27
		MZ-II	9	2	4	3	2	2	1	1	1	1	1(VH)	0	0	26
	Physics	MZ-I	9	2	4	3	2	2	1	1	1	1	1(VH)	0	0	26
		MZ-II	9	2	5	3	2	2	1	1	1	1	1(VH)	0	0	27
	Chemistry	MZ-I	9	2	4	3	2	2	1	1	1	1	1(VH)	0	0	26
		MZ-II	9	3	5	3	2	2	1	1	1	1	1(VH)	0	0	28
	Economics	MZ-I	4	1	2	1	1	1	0	0	0	0	1(VH)	0	0	11
		MZ-II	6	1	2	1	1	1	0	0	0	0	1(VH)	0	0	13
	Civics	MZ-I	6	1	3	1	1	1	1	0	0	0	1(VH)	0	0	15
		MZ-II	5	1	2	1	1	1	0	0	0	0	1(VH)	0	0	12
Commerce	MZ-I	5	1	2	1	1	1	0	0	0	0	1(VH)	0	0	12	
	MZ-II	6	1	2	1	1	1	0	0	0	0	1(VH)	0	0	13	
<b>Total</b>			<b>184</b>	<b>41</b>	<b>84</b>	<b>52</b>	<b>40</b>	<b>38</b>	<b>15</b>	<b>18</b>	<b>16</b>	<b>22</b>	<b>2</b>	<b>1</b>	<b>513</b>	

**ANNEXURE - I  
(GENERAL RECRUITMENT)**

**Junior Lecturers - General**

**BREAK UP OF VACANCY POSITION FOR THE POST OF JUNIOR LECTURERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES**

Society	Subject	Multi Zone	OC		EWS		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH		Sports		Ex.Ser		Total		Grand Total	
			G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	General	Women	(G+W)	
TMREIS (Junior Lecturers - General)	Telugu	MZ-I	4	2	1	0	1	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	1(VH)	0	0	0	0	8	7	15
		MZ-II	4	2	1	0	1	1	0	1	0	1	0	1	1	0	0	0	0	0	0	0	2(VH)	0	0	0	0	7	8	15
	Urdu (NR)	MZ-I	3	2	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	5	7	12
		MZ-II	3	1	1	0	1	2	0	1	0	2	0	1	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	5	8	13
	English	MZ-I	4	2	1	0	1	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	1(VH)	0	0	0	0	8	7	15
		MZ-II	3	1	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2(VH)	0	0	0	0	5	7	12
	Mathematics	MZ-I	2	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	4	5	9
		MZ-II	3	1	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2(VH)	0	0	0	0	5	7	12
	Zoology	MZ-I	2	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	3	5	8
		MZ-II	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2(VH)	0	0	0	0	2	5	7
	Botany	MZ-I	2	1	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	4	6	10
		MZ-II	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	1	4	5
	Physics	MZ-I	3	1	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	5	6	11
		MZ-II	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	1	4	5
	Chemistry	MZ-I	2	1	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	4	6	10
		MZ-II	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	2	4	6
	Economics	MZ-I	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4
		MZ-II	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	2	4	6
	Civics	MZ-I	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4
		MZ-II	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	
Commerce	MZ-I	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	
	MZ-II	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	2	4	6	
<b>Total</b>			<b>49</b>	<b>26</b>	<b>11</b>	<b>0</b>	<b>12</b>	<b>23</b>	<b>2</b>	<b>12</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>77</b>	<b>115</b>	<b>192</b>	

**ANNEXURE - I  
(GENERAL RECRUITMENT)**

**Junior Lecturers - Women**

**BREAK UP OF VACANCY POSITION FOR THE POST OF JUNIOR LECTURERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES (WOMEN)**

Society	Subject	Multi Zone	OC(W)	EWS (W)	SC(W)	ST(W)	BC-A (W)	BC-B (W)	BC-C (W)	BC-D (W)	BC-E (W)	PH (W)	Sports (W)	Ex.Ser (W)	Total
<b>TMREIS (Junior Lecturers - Women)</b>	Telugu	MZ-I	6	1	2	1	1	1	0	0	0	1(VH)	0	0	13
		MZ-II	6	1	2	2	1	1	1	0	0	1(VH)	0	0	15
	Urdu (NR)	MZ-I	5	1	2	1	1	1	0	0	0	1(VH)	0	0	12
		MZ-II	5	1	3	1	1	1	0	0	0	1(VH)	0	0	13
	English	MZ-I	5	1	2	1	1	1	0	0	0	1(VH)	0	0	12
		MZ-II	6	1	2	1	1	1	1	0	0	1(VH)	0	0	14
	Mathematics	MZ-I	4	1	2	1	1	1	0	0	0	1(VH)	0	0	11
		MZ-II	5	1	2	1	1	1	0	0	0	1(VH)	0	0	12
	Zoology	MZ-I	3	1	2	1	1	1	0	0	0	1(VH)	0	0	10
		MZ-II	3	0	2	1	1	0	0	0	0	1(VH)	0	0	8
	Botany	MZ-I	3	1	2	1	1	1	0	0	0	1(VH)	0	0	10
		MZ-II	3	0	2	1	1	0	0	0	0	1(VH)	0	0	8
	Physics	MZ-I	3	1	2	1	1	0	0	0	0	1(VH)	0	0	9
		MZ-II	3	1	2	1	1	0	0	0	0	1(VH)	0	0	9
	Chemistry	MZ-I	3	1	2	1	1	1	0	0	0	1(VH)	0	0	10
		MZ-II	3	1	2	1	1	0	0	0	0	1(VH)	0	0	9
	Economics	MZ-I	2	0	1	0	0	0	0	0	0	0	0	0	3
		MZ-II	3	0	1	0	1	0	0	0	0	1(VH)	0	0	6
	Civics	MZ-I	2	0	1	0	0	0	0	0	0	0	0	0	3
		MZ-II	3	0	1	0	1	0	0	0	0	1(VH)	0	0	6
Commerce	MZ-I	2	0	1	0	0	0	0	0	0	0	0	0	3	
	MZ-II	3	0	1	0	1	0	0	0	0	1(VH)	0	0	6	
<b>Total</b>			<b>81</b>	<b>14</b>	<b>39</b>	<b>17</b>	<b>19</b>	<b>11</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>202</b>

**ANNEXURE - I  
(GENERAL RECRUITMENT)**

**BREAK UP OF VACANCY POSITION FOR THE POST OF PHYSICAL DIRECTOR (JUNIOR COLLEGE) IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES**

**GENERAL (BOYS) INSTITUTIONS**

Society	Subject	Zone	OC		EWS		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		SPORTS		Ex.Ser		Total		Grand Total (G+W)	
			G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W		
TTWREIS (General)	Physical Director (JUNIOR COLLEGE)	Multi Zone-I	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3
		Multi Zone-II	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
<b>Total</b>			<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>6</b>	

**WOMEN INSTITUTIONS**

Society	Subject	Zone	OC(W)	EWS	SC (W)	ST (W)	BC-A (W)	BC-B (W)	BC-C (W)	BC-D (W)	BC-E (W)	SPORTS (W)	Ex.Ser (W)	Total
TTWREIS (Women)	Physical Director (JUNIOR COLLEGES)	Multi Zone-I	2	0	1	0	1	0	0	0	0	0	0	4
		Multi Zone-II	1	0	0	0	0	0	0	0	0	0	0	1
<b>Total</b>			<b>3</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>

**ANNEXURE - I  
(GENERAL RECRUITMENT)**

**BREAK UP OF VACANCY POSITION FOR THE POST OF PHYSICAL DIRECTOR (JUNIOR COLLEGE) IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES**

**GENERAL (BOYS) INSTITUTIONS**

Society	Subject	Zone	OC		EWS		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		SPORTS		Ex.Ser		Total		Grand Total (G+W)	
			G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W		
MJPTBCWREIS (General)	Physical Director (JUNIOR COLLEGE)	Multi Zone-I	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5
		Multi Zone-II	2	2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6
<b>Total</b>			<b>4</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>7</b>	<b>11</b>	

**WOMEN INSTITUTIONS**

Society	Subject	Zone	OC (W)	EWS (W)	SC (W)	ST (W)	BC-A (W)	BC-B (W)	BC-C (W)	BC-D (W)	BC-E (W)	SPORTS (W)	Ex.Ser (W)	Total
MJPTBCWREIS (Women)	Physical Director (JUNIOR COLLEGES)	Multi Zone-I	4	1	2	1	1	0	0	0	0	0	0	09
		Multi Zone-II	2	0	1	0	0	0	0	0	0	0	0	03
<b>Total</b>			<b>6</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>



**ANNEXURE - I**  
**(GENERAL RECRUITMENT)**  
**BREAK UP OF VACANCY POSITION FOR THE POST OF LIBRARIAN (JUNIOR COLLEGE) IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES**  
**GENERAL (BOYS) INSTITUTIONS**

Society	Subject	Zone	OC		EWS		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH		SPORTS		Ex.Ser		Total		Grand Total (G+W)	
			G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W		
TTWREIS (General)	LIBRARIAN (JUNIOR COLLEGE)	Multi Zone-I	3	1	1	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2(VH)	0	0	0	0	5	7	12
		Multi Zone-II	2	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1(VH)	0	0	0	0	3	4	7
<b>Total</b>			<b>5</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>11</b>	<b>19</b>	

**WOMEN INSTITUTIONS**

Society	Subject	Zone	OC(W)	EWS	SC(W)	ST(W)	BC-A(W)	BC-B(W)	BC-C(W)	BC-D(W)	BC-E(W)	PH (W)	SPORTS (W)	Ex.Ser (W)	Total
TTWREIS (Women)	LIBRARIAN (JUNIOR COLLEGES)	Multi Zone-I	5	1	2	1	1	1	1	0	0	2(VH)	0	1	15
		Multi Zone-II	5	1	2	1	1	1	1	0	0	1(VH)	0	1	14
<b>Total</b>			<b>10</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>29</b>

**ANNEXURE - I**  
**(GENERAL RECRUITMENT)**  
**BREAK UP OF VACANCY POSITION FOR THE POST OF LIBRARIAN (JUNIOR COLLEGE) IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES**  
**GENERAL (BOYS) INSTITUTIONS**

Society	Subject	Zone	OC		EWS		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH		SPORTS		Total		Grand Total (G+W)	
			G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W		
MJPTBCWREIS (General)	LIBRARIAN (JUNIOR COLLEGE)	Multi Zone-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Multi Zone-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**WOMEN INSTITUTIONS**

Society	Subject	Zone	OC (W)	EWS (W)	SC (W)	ST (W)	BC-A (W)	BC-B (W)	BC-C (W)	BC-D (W)	BC-E (W)	PH (W)	SPORTS (W)	Total
MJPTBCWREIS (Women)	LIBRARIAN (JUNIOR COLLEGES)	Multi Zone-I	0	0	1	0	0	0	0	0	0	0	0	01
		Multi Zone-II	1	0	0	0	0	0	0	0	0	0	0	01
Total			1	0	1	0	0	0	0	0	0	0	0	2

IMPORTANT NOTE: The number of vacancies are subject to variation on intimation being received from the appointing authority.

**ANNEXURE - II**

Scheme of examination for the post of Junior Lecturers in  
Residential Educational Institutions Societies as per G.O.Ms.No.31,  
SCD (RS) Dept, dated: 08.06.2018

**Scheme of Examination for Junior Lecturer**

Written Examination (Objective Type)		No. of Questions	Duration (Minutes)	Marks
Paper-I	General Studies, General Abilities and Basic Proficiency in English	100	120	100
Paper-II	Pedagogy of concerned subject	100	120	100
Paper-III	Concerned Subject (PG Level)	100	120	100
Demonstration				25
<b>Total</b>				<b>325</b>

**Scheme of Examination for Physical Director(Junior College)**

Written Examination (Objective Type)		No. of Questions	Duration (Minutes)	Marks
Paper-I	General Studies, General Abilities and Basic Proficiency in English	100	120	100
Paper-II	Physical Education	100	120	100
Demonstration				25
<b>Total</b>				<b>225</b>

**Scheme of Examination for Librarian(Junior College)**

Written Examination (Objective Type)		No. of Questions	Duration (Minutes)	Marks
Paper-I	General Studies, General Abilities and Basic Proficiency in English	100	120	100
Paper-II	Library & Information Science	100	120	100
Demonstration				25
<b>Total</b>				<b>225</b>

Written Examination Syllabus for the post of Junior Lecturers in  
Residential Educational Institutions Societies

Syllabus

Paper-I

General Studies, General Abilities and Basic Proficiency in English

Section-I: General Studies

1. Current Affairs - Regional, National & International.
2. Indian Constitution; Indian Political System; Governance and Public Policy.
3. Social Exclusion; Rights issues such as Gender, Caste, Tribe, Disability etc. and inclusive policies.
4. Society Culture, Civilization Heritage, Arts and Literature of India and Telangana
5. General Science; India's Achievements in Science and Technology
6. Environmental Issues; Disaster Management- Prevention and Mitigation Strategies and Sustainable Development.
7. Economic and Social Development of India and Telangana.
8. Socio-economic, Political and Cultural History of Telangana with special emphasis on Telangana Statehood Movement and formation of Telangana state.

Section-II: General Abilities

9. Analytical Abilities: Logical Reasoning and Data Interpretation.
10. Moral Values and Professional Ethics in Education.
11. Teaching Aptitude

Section - III: Basic Proficiency in English

i) School Level English Grammar:

Articles; Tense; Noun & Pronouns; Adjectives; Adverbs; Verbs; Modals; Subject-Verb Agreement; Non-Finites; Reported Speech; Degrees of Comparison; Active and Passive Voice; Prepositions; Conjunctions; Conditionals.

ii) Vocabulary:

Synonyms and Antonyms; Phrasal Verbs; Related Pair of Words; Idioms and Phrases; Proverbs.

iii) Words and Sentences:

Use of Words; Choosing Appropriate words and Words often Confused; Sentence Arrangement, Completion, Fillers and Improvement; Transformation of Sentences; Comprehension; Punctuation; Spelling Test; Spotting of Errors.

## Written Examination Syllabus for the post of Junior Lecturer in Residential Educational Institutions Societies

### PAPER- II : భాషాభోధన శాస్త్రం - తెలుగు

1. భాష : స్వభావం - ఉత్పత్తి ప్రథమ భాష, ద్వితీయ భాష, తృతీయ భాష; మాతృభాష: వివిధ వర్గాలు, వృత్తులవారి భాష.
2. భాషా భోధన మరియు అభ్యసనం : ఉద్దేశాలు, లక్ష్యాలు, అభ్యసన ప్రమాణాలు (సామర్థ్యాలు), విలువలు.
3. బాలబాలికల వికాసము : భాషాభోధన అభ్యసన మనో విజ్ఞానము - ముఖ్యభావనలు; పిల్లల భాషా సంపాదనా సిద్ధాంతాలు; భాష - ఆలోచన, సృజనాత్మకత.
4. భాషా విద్యా ప్రణాళిక : నిర్మాణం, వ్యవస్థీకరణము, అభివృద్ధి, పాఠ్యపుస్తకాల కూర్పు.
5. భాషా నైపుణ్యాలు మరియు భోధన నైపుణ్యాలు : తరగతిలో ప్రతిభాయుత భోధన అభ్యసన ప్రణాళిక రచన, నిర్వహణ; అభ్యసనానుభవాల కల్పన.
6. భాషా భోధన : పద్ధతులు, వ్యూహాలు (పాఠశాల స్థాయి పాఠ్యాంశాలను దృష్టియందుంచుకొని) గద్యం - పద్యం - నాటిక (సంభాషణ), కథ - వ్యాసం మొదలగు ప్రక్రియల భోధన.
7. భోధన మరియు అభ్యసన వనరులు : భాషా భోధన సామగ్రి ఆకృతీకరణ; భాషా ప్రయోగశాల; భోధనోపకరణాలు; ఒక వనరుగా పాఠ్యపుస్తకం; భాష భోధన అభ్యసనాల్లో కంప్యూటర్ సాంకేతికత (ICT) వినియోగం; సహపాఠ్య కార్యక్రమాలు.
8. భాషా విషయక మాపనము - మూల్యాంకనము : నిరంతర సమగ్ర మూల్యాంకనము - మూల్యాంకనా సాధనాలు - వ్యూహాలు, ఉపలబ్ధి మరియు లోప నిర్ధారణనికషలు.
9. అభ్యసన వైకల్యాలు - ప్రత్యేక అవసరాలు గల పిల్లల భాషాభ్యసనం.
10. నిత్య జీవితంలో భాషా వినియోగం - భాష సమస్యలు, భాషావిధానాలు మరియు జాతీయ, రాష్ట్రస్థాయి విద్యా ప్రణాళికా చిత్రాలు (పాఠశాల స్థాయి).

Written Examination Syllabus for the post of Junior Lecturers in Residential Educational Institutions Societies

Paper - III

Paper: తెలుగు

(ఎ) సంప్రదాయ సాహిత్యకవుల అధ్యయనం - కాలం - రచనలు

నన్నయ, తిక్కన, ఎర్రన, శివకవులు (నన్నెచోడుడు, మల్లికార్జున పండితారాధ్యుడు, పాల్కురికి సోమనాథుడు), నాచనసోమన - భాస్కర రామాయణ కావులు, రంగనాథ రామాయణ కవి - శ్రీనాథుడు - పోతన - పిల్లలమర్రి పినవీరభద్రుడు - గౌరన - అనంతమాత్యుడు - కొరవి గోపరాజు - నంది మల్లన, ఘంట సింగన - అష్టదిగ్గజ కవులు - తాళ్ళపాక కవులు - పొన్నగంటి తెలగన్న - చేమకూర వెంకటకవి - తంజావూరు రాజకవులు కవయిత్రులు - కందుకూరి రుద్రకవి, మడికి సింగన

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

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, మైనారిటీ , బి.సి. ప్రాంతీయ)

జానపద విజ్ఞానం - గేయాలు - కథాగేయాలు - గద్యాభ్యాసాలు - (పురాణగాథలు - ఐతిహ్యాలు - కథలు), సామెతలు - పాదపూకథలు - జానపద కళలు - (వీధి నాటకాలు, యక్షగానాలు, బొమ్మలాటలు,, పగటి వేషాలు, చిందు, ఒగ్గు, జాతర కళారూపాలు.

ఆధునిక కవులు అధ్యయనం - ఆధునిక ధోరణులు వారి రచనలు - గురజాడ - రాయప్రోలు - వీరేశలింగం - విశ్వనాథ - దేవులపల్లి - బసవరాజు - పింగళి - కాటూరి - దువ్వూరి - పుట్టపర్తి - శ్రీశ్రీ - కాళోజి, దాశరథి, సి. నారాయణ రెడ్డి , ఎన్. గోపి - ప్రసిద్ధ ఆధునిక కవులు - భావ, అభ్యుదయ, విప్లవ, - దిగంబర, చేతనావర్తన కవులు.

తెలుగు వ్యాకరణ, ఛందస్సు అధ్యయనం:

వ్యాకరణం - బాల వ్యాకరణం (సంజ్ఞ, సంధి, క్రియా, తత్సమ, ఆచ్ఛిక ప్రకరణాలు ఛందస్సు - వృత్తాలు, జాతులు, ఉపజాతులు (ఉత్పలమాల, చంపకమాల, శార్దూలం, మత్తేభం, ద్విపద, తరువోజ , సీసం, కందం, స్రగ్ధర , పంచచామరం) అలంకారాలు - అర్థాలంకారాలు, శబ్దాలంకారాలు తెలుగు భాషా చరిత్ర పరిణామం - (ప్రాజ్ఞన్నయ యుగం నుండి నేటి వరకు) - ద్రావిడ భాషా కుటుంబాలలో తెలుగు స్థానం - భౌగోళిక విభజన - మాండలికాలు.

భాషా విజ్ఞాన అధ్యయనం - భాషా శాస్త్రం, అర్థ విపరిణామం - ఆధునిక కాలం, : శాసన భాష నుండి సాహిత్య భాష వరకు (వ్యావహారిక భాష ఉద్యమం వంటివి

తెలుగు సాహిత్య పరిణామం (ప్రాజ్ఞన్నయ యుగం నుండి నేటి వరకు) సాందర్య, సాహిత్య విమర్శ అధ్యయనం (ఫ్రాక్, పశ్చిమ) ఆధునిక తెలుగు సాహిత్య విమర్శ. సంస్కృత వ్యాకరణం - కావ్యాలు - సంస్కృత వ్యాకరణం ప్రాథమిక విజ్ఞానం, సామాన్య ప్రామాణిక గద్య, పద్య పాఠ్యాంశాలు - హితోపదేశం, కాళిదాసుని కృతులు, సంస్కృత పంచకావ్యాల పరిచయం.

Written Examination Syllabus for the post of Junior Lecturer in  
Residential Educational Institutions Societies

**Paper –II: Hindi Language & Literature**

**Unit-1 : साहित्यिक विधाएँ और विशेषताएँ**

- हिन्दी गद्य का विकास
- उपन्यास, कहानी, निबंध, एकांकी/नाटक, यात्रा-वृत्तांत, दैनिकी, संस्मरण,
- रेखाचित्र, आत्मकथा/जीवनी

**Unit-2 : प्राचीन और मध्यकाल**

- कवि और उनके काव्य
- विभिन्न प्रवृत्तियाँ और वाद

**Unit-3 : आधुनिक काल**

- कवि और काव्य
- विभिन्न प्रवृत्तियाँ और वाद

**Unit-4 : हिन्दी भाषा पर अन्य साहित्य/ भाषाओं का प्रभाव**

**Unit-5 : हिन्दी भाषा- उपभाषाएँ और बोलियाँ**

**Unit-6 : हिन्दी भाषा साहित्य में काव्य शास्त्र-छंद, अलंकार और रस-सिद्धान्त**

**Unit-7 : भाषा तत्व और व्याकरण**

- शब्द-विचार, शब्द-भेद
- शब्द-विचार-उपसर्ग, प्रत्यय
- शब्द भेद-लिंग, वचन, कारक, काल
- शब्द-रूपान्तर-शब्द-अर्थ, भिन्नार्थ, पर्याय, विलोम

Written Examination Syllabus for the post of Junior Lecturers in  
Residential Educational Institutions Societies

2. Paper - III: Hindi

I. Study of the following ten authors and poets:

1. Kabir
2. Tulsidas
3. Bihari
4. Surdas
5. Acharya Ramachandra Shukla
6. Premchand
7. Prasad
8. Pant
9. Nirala
10. Dinakar

II. Appreciation of the popular couplets of Tulsī, Kabir, Rahim, Vrinda etc., and a few lines from modern poets of Prasad, Pant etc.

III. 1. Details Study of “Hindi Sahitya ka Itihas”

(1. Adikaal, 2. Bhaktikaal, 3. Ritikaal, 4. Aadhunikkaal)

2. Origin and development of prominent literary genres in modern Hindi, e.g. Novel, Short

Story, Drama, Criticism.

IV. The study of the following eight trends of the history of Hindi Literature.

1. Gyan Margi Shakha
2. Prem Margi Shakha
3. Ram Bhakti Shakha
4. Krishna Bhakti Shakha
5. Riti kavya
6. Chayavada
7. Pragativada
8. Nai Kavita

V. History of various aspects of Hindi Language, e.g.:

1. Grammatical and lexical features of Apabhraṅsa, Avahatta and early Hindi.
2. Evolution of Khari Boli Hindi as literary language during 19th Century.
3. Development of Hindi as Rastra Bhasha during freedom struggle and as official language Of Indian Union since Independence.
4. Major Dialects of Hindi and their inter-relationship
5. Functional and significant grammatical features of standard Hindi
6. Origin and development of Devanagari script and its role in standardization of Hindi language.



## Written Examination Syllabus for the post of Junior Lecturer in Residential Educational Institutions Societies

### Paper-II: Pedagogy of English Language

1. The Nature of language and its Historical Development ; First Language; Second Language and Third Language ; Different Types of Languages; Mother Tongue; Languages of Different Professions; Importance of languages across School Curriculum; Contributions of Creative Writers.
2. Values, Aims and Objectives of Teaching Languages
3. Child Development; Psychology of Teaching and Learning Languages; Language, Thinking and Creativity.
4. Language Curriculum: Construction, Organization and Development.
5. Language Skills; Planning for Effective Instruction in Language Classrooms: Different Plans and Designing Learning Experiences.
6. Approaches, Methods and Techniques of Teaching Languages with special reference to School Content (Prose/Fiction /Poetry/Drama/Essay).
7. Teaching and Learning Resources and Designing Instructional Material for Languages; Language Labs; Teaching Aids; Textbooks; ICT in Language Teaching and Learning.
8. Measurement and Evaluation in Languages: Continuous and Comprehensive Evaluation (CCE); Tools and Techniques of Evaluation; Achievement and Diagnostic Tests.
9. Learning Disabilities/Difficulties and Education of Exceptional/ Disabled Children in Languages.
10. Language and Everyday Life; Language Issues and Policies. National and State Curriculum frameworks.

## Written Examination Syllabus for the post of Junior Lecturers in Residential Educational Institutions Societies

### Paper - III: English

#### I. Genres, Movements, Schools, Concepts.

- Renaissance-Reformation, Metaphysical poetry, Neo-classicism, Puritanism, Restoration, Romanticism, Victorian Age, Realism-Naturalism, Expressionism, Symbolism, Modernism, Postmodernism.
- Structuralism, Post structuralism, Feminism, Post colonialism, Diaspora, Race Gender and Caste.
- English Literary Criticism from Philip Sydney to Matthew Arnold
- New Criticism, Formalism, Archetypal criticism, New Historicism, Psychoanalytical criticism, Reader response criticism.
- Literary Genres: Poetry, Fiction, Prose, Drama (origins and development, elements, forms, types)

#### II. Writers and Texts

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Christopher Marlowe</li> <li>• William Shakespeare</li> <li>• John Milton</li> <li>• William Wordsworth</li> <li>• Robert Browning</li> <li>• Thomas Hardy</li> <li>• TS Eliot</li> <li>• G.B. Shaw</li> <li>• Virginia Woolf</li> <li>• William Golding</li> <li>• Walt Whitman</li> </ul> | <ul style="list-style-type: none"> <li>Doctor Faustus</li> <li>Hamlet</li> <li>Paradise Lost-Book 1</li> <li>“Immortality Ode”, Tintern Abbey</li> <li>“My Last Duchess”, “Andrea del Sarto”</li> <li>Tess of the d’ Urbervilles</li> <li>The Waste Land</li> <li>Saint Joan</li> <li>“A Room of One’s Own”</li> <li>Lord of the Flies</li> <li>“When Lilacs Last in the Dooryard Bloomd”, “Crossing Brooklyn Ferry”</li> </ul> |
| <ul style="list-style-type: none"> <li>• Arthur Miller</li> <li>• Toni Morrison</li> <li>• Mulk Raj Anand</li> <li>• Kamala Das</li> <li>• Girish Karnad</li> <li>• Salman Rushdie</li> <li>• Chinua Achebe</li> <li>• Margaret Atwood</li> <li>• Derek Walcott</li> </ul>   | <ul style="list-style-type: none"> <li>Death of a Salesman</li> <li>Beloved</li> <li>Untouchable</li> <li>“An Introduction”, “The Old Playhouse”</li> <li>Hayavadana</li> <li>Midnight’s Children</li> <li>Things Fall Apart</li> <li>Edible Woman</li> <li>Dream on Monkey Mountain</li> </ul>   |

#### III English Language Teaching

1. ELT in India: (History and status of English in India; English as Second Language, English as Foreign Language, and English 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) Teaching literature.
4. Testing and Evaluation: (Principles, Types, Objectives of testing and evaluation)
5. Phonetics and Phonology; Syntax and Structure.

#### IV. Literary comprehension - (Experts from poetry and prose for comprehension)

Written Examination Syllabus for the post of Junior Lecturer in  
Residential Educational Institutions Societies  
Paper-II: Pedagogy of Urdu Language

اردو زبان کی فن تدریس / تدریسی لائحہ عمل / تدریس کے اصول  
( Pedagogy of Urdu Language )

- I زبان کی نوعیت اور اس کا تاریخی ارتقائی عمل: زبان اول  
تکثیف دوسری زبان و تیسری زبان۔ زبانوں کے مختلف اقسام  
مادری زبان۔ مختلف پیشوں سے متعلقہ زبانیں۔ مدرسہ کے نصاب میں  
زبانوں کی اہمیت۔ تخلیق کار مضمینین کا حصہ
- II تدریس زبان کے اقدار۔ مدعا اور مقاصد
- III بچے کی نشوونما۔ زبانوں کی نفسیاتی تدریس اور کتاب ریکھنا۔ زبان۔  
غور و فکر (سوچنا) اور اختراعیت
- IV نصاب زبان۔ نصاب کی تدوین۔ نصاب کی تنظیم اور نصاب کا فروغ
- V زبان کی مہارتیں۔ زبان کی جماعتوں میں موثر ہدایات کی منصوبہ بندی۔  
مختلف منصوبے (پلان) اور تدریسی تجربات کے نمونے
- VI تامل/انداز۔ مدرسہ کے تدریسی مواد کے خصوصی حوالہ سے تدریس زبانوں  
کے مختلف انداز رسائی۔ تدریسی طریقے اور تدریسی تکنیک۔  
(نثر / داستان / شاعری / ڈرامہ / مضمون نگاری)
- VII تدریسی۔ اکتسابی وسائل اکتسابی وسائل اور زبانوں کے واسطے ہدایاتی  
مواد کے ڈیزائن تیار کرنا۔ اردو زبان کی لیباریٹری۔ تدریسی امدادی وسائل (توضیحات)  
درسی کتب زبان کی تدریس اور کتاب میں ICT (انفارمیشن اور کمیونیکیشن ٹکنالوجی)۔  
زبانوں میں پیابھات اور جانچ
- VIII مسلسل جامع جانچ (CCE) جانچ کے آلات اور تکنیک۔ تحقیقی آزمائشیں اور تشخیصی آزمائشیں

صفحہ نمبر ۲

IX اکتسابی معذوری یا عدم اہلیتیں راستگنائی بچوں کی تعلیم اور درپیش مشکلات زبان میں معذور بچے

X زبان اور روزمرہ زندگی: زبان کے مسائل اور پالیسیاں قومی اور ریاستی نصاب کا فریم ورک  
(اسکولی سطح تک)

Written Examination Syllabus for the post of Junior Lecturer in  
Residential Educational Institutions Societies

Paper-III: Urdu Language & Literature

VII اُردو زبان کی صحیحیتیں

(مادری زبان، دوسری زبان، سرکاری زبان، قومی زبان، رابطہ کی زبان، تحریری زبان، علامتوں کی  
زبان، اشاروں کی زبان)

VIII اُردو زبان کے عناصر

(قرآن مجید، مستقل کلمہ، غیر مستقل کلمہ، اس کے اقسام، جملہ، جملے کے اقسام

الفاظ، منفرد مرکب، الفاظ

ساختے، لاجسہ

محاورے، خبر پائفل، اسوز و ادقاف

شائع و بدائع

تکلف، مخارج، امرایب

IX ترجمہ اور سٹیک

X جانچ - امتحان کے اقسام، موضوعی اور معروضی سٹیک کی خصوصیات، مصروفی سٹیک کے اقسام، سلسلہ جامع

جانچ 2005 NCF قانون جن تعلیم اکیڈمک معیار اور

دوہے، ماہیہ قطعہ)

VI اُردو کے اسالیب

(مختلف مصلحتوں کے طرز اسالیب)

Written Examination Syllabus for the post of Junior Lecturers in  
Residential Educational Institutions Societies

Paper - III: Urdu

01. The study of the following Ten Authors and Poets:

1. Mohammad Quli Qutub Shah
2. Wali.
3. Meer.
4. Anees.
5. Ghalib.
6. Sir Syed.
7. Hali.
8. Iqbal.

9. Premchand.

10. Krishna Chander.

**02.** Appreciation of couplets of renowned poets.

**03.** The Study of the following eight trends of the History of Urdu Literature.

1. Development of Urdu under the Qutubshahis, and the Adil Shahis.

2. Delhi School.

3. Lucknow School.

4. Fort William College.

5. Aligarh movement.

6. Iqbal and his Age.

7. The Contribution of Jamia Osmania.

8. Impact of progressive movement.

**04.** Study of various aspects of Language and Literature.

Written Examination Syllabus for the post of Junior Lecturer in  
Residential Educational Institutions Societies

**Paper-II: Pedagogy of Mathematics**

1. The Nature of Mathematics and its Historical Development including the contributions of important Mathematicians given in the school textbooks. Importance of Mathematics in School Curriculum.
2. Values, Aims and Objectives of Teaching Mathematics.
3. Child Development: Psychology of Teaching and Learning Mathematics.
4. Mathematics Curriculum: Construction, Organization and Development.
5. Approaches, Methods and Techniques of Teaching Mathematics with special reference to Arithmetic, Algebra, Geometry and Trigonometry.
6. Planning for Effective Instruction in Mathematics: Different Plans and Designing Learning Experiences.
7. Learning Resources and Designing Instructional Material in Mathematics; Mathematics Labs; Teaching Aids; Textbooks; ICT in Mathematics.
8. Measurement and Evaluation in Mathematics: Continuous and Comprehensive Evaluation (CCE); Tools and Techniques of Evaluation; Achievement and Diagnostic Tests.
9. Learning Disabilities/Difficulties and Education of Exceptional/ Disabled Children in Mathematics.
10. Mathematics and Everyday Life; Non-formal Mathematics Education.

**Written Examination Syllabus for the post of Junior Lecturers in  
Residential Educational Institutions Societies  
Paper - III: Mathematics**

- I. Real Analysis
 

Finite, Countable and Uncountable sets - Real Number system  $\mathbb{R}$  - Infimum and Supremum of a subset of  $\mathbb{R}$  - Bolzano- Weierstrass Theorem- Sequences- Convergence- Limit Superior and Limit Inferior of a Sequence- Sub sequences- Heine- Borel Theorem- Infinite Series - Tests of Convergence- Continuity and Uniform continuity of a real valued function of a real variable- Monotonic Functions - Functions of Bounded Variation- Differentiability and Mean Value Theorems- Riemann Integrability- Sequences and Series of Functions.
- II. Metric Spaces
 

Metric spaces - Completeness- Compactness- Connectedness - Continuity and Uniform continuity of a function from one metric space into another-Topological Spaces - Bases and Subbases - Continuous functions
- III. Elementary Number Theory
 

Primes and Composite numbers - Fundamental Theorem of Arithmetic - Divisibility - Congruences - Fermat's theorem - Wilson's Theorem - Euler's Phi - Function
- IV. Group Theory
 

Groups- Subgroups- Normal Subgroups- Quotient groups- Homomorphisms- Isomorphism Theorems- Permutation groups- Cyclic groups- Cayley's theorem. Sylow's theorems - Their applications
- V. Ring Theory
 

Rings- Integral domain- Fields- Subrings - Ideals - Quotient rings - Homomorphisms - Prime ideals- Maximal ideals - Polynomial rings - Irreducibility of polynomials - Euclidean domains- 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. Theory of Matrices
 

Linear Transformations - Rank and nullity - Change of bases- Matrix of a Linear Transformation - Singular and Non-singular matrices - Inverse of a matrix - Eigenvalues and Eigenvectors of a matrix and of a Linear Transformation - Cayley-Hamilton's theorem- Quadratic forms- Signature and Index
- 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 Modulus Principle - Schwarz's Lemma - Taylor's Series - Laurent's Series- Calculus of Residues - Evaluation of Integrals
- IX. Ordinary Differential Equations
 

Ordinary Differential Equations (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 Partial Differential Equations (PDE) - Lagrange and Charpit's methods for Solving first order PDEs - Cauchy problem for first order PDEs- Classification of Second Order PDE's - General Solution of Higher Order PDEs with Constant Coefficients
- XI. Solid Geometry
 

The Plane- Right line- Sphere- Cones and Cylinders

Written Examination Syllabus for the post of Junior Lecturer in  
Residential Educational Institutions Societies

**Paper-II: Pedagogy of Physics**

1. The Nature of Physical Sciences and its Historical Development including the contributions of important Physicists and Chemists given in the school textbooks. Importance of Physical Sciences in School Curriculum
2. Values, Aims and Objectives of Teaching Physical Sciences.
3. Child Development; Psychology of Teaching and Learning Physical Sciences.
4. Physical Sciences Curriculum: Construction, Organization and Development.
5. Approaches, Methods and Techniques of Teaching Physical Sciences with special reference to Measurement, units and dimensions; Natural Resources, Our Universe; Natural Phenomenon (Light; Heat; and Sound); Mechanics; Magnetism; Electricity and Electro Magnetism; Modern Physics; Electronics and Communication; Matter; Chemical Reactions; Acids and Bases; Atomic Structure; Periodic Classification of Elements; Chemical Bonding; Carbon and its Compounds; and Metallurgy; Environmental Chemistry.
6. Planning for Effective Instruction in Physical Sciences: Different Plans and Designing Learning Experiences.
7. Learning Resources and Designing Instructional Material in Physical Sciences; Physical Science Labs; Teaching Aids; Textbooks; ICT in Physical Sciences.
8. Measurement and Evaluation in Physical Sciences: Continuous and Comprehensive Evaluation (CCE); Tools and Techniques of Evaluation; Achievement and Diagnostic Tests.
9. Learning Disabilities/Difficulties and Education of Exceptional/ Disabled Children in Physical Sciences.
10. Physical Sciences and Everyday Life; Non-formal Physical Sciences Education.



**Written Examination Syllabus for the post of Junior Lecturers in  
Residential Educational Institutions Societies  
Paper - III: Physics**

**I. Mathematical Methods of Physics**

Dimensional analysis, vector algebra and vector calculus. Linear algebra, matrices, Cayley-Hamilton Theorem. Eigen values 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.

**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 pseudo forces. Variational principle. Generalized coordinates. Lagrangian and Hamiltonian formalisms 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. Charges particles in inhomogeneous fields.

**IV. Quantum mechanics**

Wave-particle duality. Schrodinger equation (time-dependent and time-independent). Eigen value problems (particle in a box, harmonic oscillator, etc.). Tunnelling 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 atom. 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 equilibrium. 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. Black body radiation and Planck's distribution law

**VI. Electronics**

Semiconductor 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). Rectifiers and power supplies. Feedback amplifiers and their frequency response. Oscillators, Multivibrators. Operational amplifiers and their applications, Digital techniques and applications (Logic circuits, registers, counters and Comparators). A/D and D/A converters. Microprocessors, micro controller basics. Fundamentals of AM communication, FM communication and Fibre optic communication and their 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, hyper fine structure and isotopic shift, width of spectrum lines, LS & JJ couplings. Zeeman, Paschen-Bach & Stark effects. 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 lattice. 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 orientation order, kinds of liquid crystalline order. Quasi crystals.

**IX. Nuclear and Particle Physics**

Basics of radio activity. 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.

Written Examination Syllabus for the post of Junior Lecturer in  
Residential Educational Institutions Societies

**Paper-II: Pedagogy of Chemistry**

1. The Nature of Physical Sciences and its Historical Development including the contributions of important Physicists and Chemists given in the school textbooks. Importance of Physical Sciences in School Curriculum
2. Values, Aims and Objectives of Teaching Physical Sciences.
3. Child Development; Psychology of Teaching and Learning Physical Sciences.
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Paper - III: Chemistry**

**Inorganic Chemistry:**

1. Atomic structure and chemical bonding - structure and bonding in homo and hetero nuclear molecules. Application of VSEPR, Valence Bond and Molecular orbital theories in explaining the structures of simple molecules.
2. Chemistry of main group (I to VII & Nobel gases) elements.
3. Chemistry of transition elements and inner transition elements.
4. General principles of metallurgy: Occurrence of metals, Concentration of ores - levigation, magnetic separation, froth floatation, leaching, Extraction of crude metal from concentrated ore - conversion to oxide, reduction of oxide to the metal, Thermodynamic principles of metallurgy - Ellingham diagram limitations, applications. Extraction of iron, copper and zinc from their oxides, Electrochemical principles of metallurgy, Oxidation and reduction, Refining of crude metal - distillation, liquation, poling, electrolysis, zone refining and vapour phase refining, Uses of aluminium, copper, zinc and iron. Alloys: Inter-metallic compounds
5. Coordination Chemistry - IUPAC nomenclature, bonding theories - Werner's theory, EAN rule, VBT, Crystal Field Theory - Crystal Field splitting patterns in various geometries, Factors affecting CFT. Calculation of CFSE - Jahn Teller effect - Isomerism in complexes. Spectral and magnetic properties of Coordination complexes - Russell-Saunders coupling - term symbols - charge transfer spectra of complexes.
6. Stability of metal complexes - Stepwise and overall stability constants - Factors affecting the stability of metal complexes - Chelate effect. Pearson's theory of hard and soft acids and bases (HSAB).
7. Reaction mechanism of metal complexes - Inert and labile complexes - Ligand substitution reaction 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.
8. Metal carbonyls, Nitrosyls and Metallocenes - Structure and bonding.
9. Bio-inorganic chemistry - Metal complexes as oxygen carriers - Hemoglobin and myoglobin - Oxygen transport - Non heme proteins - Hemerythrin and hemocyanin.
10. Analytical chemistry - Chromatography - General principles involved in separations by Paper, Thin layer, Column Chromatography, GC and HPLC.

**Physical Chemistry:**

11. Solutions and colligative properties: Types of solutions, Expressing concentration of solutions mass percentage, volume percentage, mass by volume percentage, parts per million, mole fraction, molarity and molality, Solubility: Solubility of a solid in a liquid, solubility of a gas in a liquid, Henry's law, Vapour pressure of liquid solutions: vapour pressure of liquid-liquid solutions. Raoult's law as a special case of Henry's law - vapour pressure of solutions of solids in liquids, Ideal and non-ideal solutions, Colligative properties and determination of molar mass - Relative lowering of vapour pressure, elevation of boiling point, Depression of freezing point, Osmosis and osmotic pressure - reverse osmosis and water purification. Abnormal molar masses - van't Hoff factor. Phase equilibria - Phase rule and its application to one component and two component systems.
12. Acids and bases: Acids, bases and salts - Arrhenius, Bronsted-Lowry and Lewis concepts of acids and bases. Ionisation of Acids and Bases - Ionisation constant of

water and its ionic product- pH scale ionisation constant of weak acids and weak bases-relation between  $K_a$  and  $K_b$ . Di and poly basic acids and di and poly acidic Bases-Factors affecting acid strength-Common ion effect in the ionization of acids and bases- Hydrolysis of salts and pH of their solutions. Buffer solutions.

13. 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 criteria for equilibrium and spontaneity. Physical significance of A and G. Driving force for chemical reactions- relative signs of  $\Delta H$  and  $\Delta S$ . 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 equilibrium. Clapeyron equation and Clausius-Clapeyron equation. Conditions for equilibrium in a closed system. Chemical potential of ideal gases. Ideal-gas reaction equilibrium-derivation of equilibrium constant. Temperature dependence of equilibrium constant - The Van't Hoff equation.
14. Electrochemistry: Conductance and its applications, Derivation of Nernst equation. Chemical and concentration cells (with and without transference). Liquid junction potential - derivation of the expression for  $L J P$  - 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 over potential. Concept of activity and activity coefficients in electrolytic solutions. The mean ionic activity coefficient. Debye-Huckel theory of electrolytic solutions. Debye-Huckel limiting law. 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.
15. Quantum chemistry: Black body radiation-Planck's concept of quantization-Planck's equation, average energy of an oscillator. Wave particle duality and uncertainty principle - significance for microscopic entities. Emergence of quantum mechanics. Wave mechanics and Schrödinger wave equation. Operators - operator algebra: Commutation of operators, linear operators, Complex functions, Hermitian operators. Eigen functions and Eigen values. Degeneracy. Linear combination of Eigen functions 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.
16. Chemical kinetics: Theories of reaction rates - Collision theory, Transition state theory, Reaction coordinate, activated complex and the transition state. Thermodynamic formulation of transition state theory. Unimolecular reactions and Lindeman's theory.
17. 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. Actinometry - ferrioxalate and uranyl oxalate actinometers. Derivation of fluorescence and phosphorescence quantum yields. E-type delayed fluorescence- evaluation of triplet energy splitting ( $\Delta E_{ST}$ ). Laws of photo

chemistry, Photo physical processes, photo physical kinetics of unimolecular reactions. Calculation of rate constants of various photo physical processes, State diagrams, photochemical primary processes. Types of photochemical reactions- electron transfer, photo dissociation, addition, abstraction, oxidation and isomerisation 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- Principles of flash photolysis.

18. Solid state chemistry: General characteristics of solid state. Classification of crystalline solids based on different binding forces, probing the structure of solids: X-ray crystallography, Crystal lattices and unit cells. Bravais lattices- primitive and centred unit cells, Number of atoms in a unit cell (primitive, body centred and face centred cubic unit cell), Close packed structures: Close packing in one dimension, in two dimensions and in three dimensions- tetrahedral and octahedral voids- formula of a compound and number of voids filled- locating tetrahedral and octahedral voids, Packing efficiency in simple cubic, bcc and in hcp, ccp lattice. Calculations involving unit cell dimensions density of the unit cell. Imperfections in solids- types of point defects- stoichiometric and non-stoichiometric defects. Magnetic properties of solids- classification of magnetic materials, Magnetic susceptibility, Langevin diamagnetism, Weiss theory of para magnetism. 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.

#### Organic Chemistry:

19. IUPAC nomenclature of organic molecules. Isomerism - classification of isomers.
20. Classification, preparations and properties of alkane, alkenes, alkynes, cyclo alkanes, aromatic hydrocarbons, halogen compounds, hydroxy compounds, carbonyl compounds, carboxylic acids and its derivatives.
21. Stereo chemistry: Molecular representations (Wedge, Fisher, Newman and Saw-horse projection formula) their description and interconversions. Stereoisomers - classification- configuration- R,S- Nomenclature, criteria for chirality, Axial chirality of allenes, spiranes, alkylidenes, Cycloalkanes, chiral biaryls - Atropisomerism. Planar chirality of ansa compounds and trans- cyclooctene. Helical chiral compounds.  
Determination of absolute configuration by chemical correlation methods. Determination of configuration in E,Z- nomenclature. Spectral and chemical methods for determination of E, Z configuration, including aldoxime and ketoximes.
22. Introduction to conformational isomerism, Klyne - Prelog terminology for conformers and torsion angles, dihedral angle, Steric strain and the concept of dynamic stereoisomerism. Study of conformations of acyclic compounds like ethane, butane, dihalobutanes, halohydrin, ethylene glycol, butane-2, 3-diol, amino alcohols and 1,1,2,2-tetrahalobutanes.
23. Nature of bonding in organic molecules and aromaticity, delocalized chemical bonding, conjugation, cross conjugation, resonance, hyperconjugation, tautomerism, Huckel's Rule and the concept of aromaticity-Aromaticity, non-aromaticity and antiaromaticity.
24. Reactive intermediate: Generation, detection, structure, stability and reactivity of carbocation, carbanion, free radical, carbene and nitrene. 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 catalysed rearrangements: Benzylic acid, Favorski, Tran annular, Sommelet-Hauser and Smiles rearrangement.
25. Organic reaction mechanism: Mechanism, stereochemistry and energy profile diagram of Addition reactions to polar and non polar double bonds. Substitution reactions: Mechanism, rate law, stereochemistry and factors affecting on aliphatic and aromatic reactions. Elimination reactions- mechanism, rate law, stereochemistry, orientation and factors affecting on E1, E2, E1cB, pyrolytic syn elimination and anti-elimination, elimination vs substitution. Detection of reaction mechanism by product isolation, isotopic labelling, chemical trapping and crossover experiments.
  26. Oxidation- Swern, Cr (VI) oxidants, Oxidative cleavage of 1,2-diols - Periodic acid and Lead tetra acetate. Reductions - Wilkinson's catalytic hydrogenation, LiAlH<sub>4</sub>, NaBH<sub>4</sub>, BH<sub>3</sub>, AlH<sub>3</sub> and DIBAL.
  27. Heterocyclic chemistry: importance as drugs, nomenclature, classification based on size of the ring, number and nature of hetero atoms. Synthesis and reactivity of Pyrrole, furan, Thiophene, pyridine, Indole, Benzothiophene, Quinoline, Isoquinolines.
  28. Alkaloids and Terpenoids- importance 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, special isoprene rule, structure determination of a-Terpenoid and camphor.
  29. Organic photochemistry: photochemical energy, Frank-Condon principle, Jablonski diagram, Electronic transitions, photosensitization, quenching, quantum efficiency, quantum yield, photochemistry of carbonyl compounds n $\pi$ \* and  $\pi$  $\pi$ \* transitions. Norrish type-I and Norrish type-II cleavages. Paterno-Buchi reactions, Photoreduction, photochemistry of enones- hydrogen abstraction, rearrangements of  $\alpha,\beta$ -unsaturated ketones and cyclohexadienones, photochemistry of pbenzoquinones, Dienes - photochemistry of 1,3-butadiene, (2+2) additions, Di-p-methane rearrangement, photochemistry of aromatic compounds, excited states of benzene and its 1,2-, 1,4- additions.
  30. Pericyclic reactions: Classification, Stereochemistry of pericyclic reactions, Molecular Orbitals and Symmetry of ethylene, 1,3-butadiene, 1,3,5-hexatriene, allylic, 1,3-pentadienyl and 1,3,5-heptatrienyl p- systems. Analysis of pericyclic reactions by PMO, FMO and orbital correlation methods.
  31. Basic principles, concepts of UV, IR, <sup>1</sup>H NMR, <sup>13</sup>C NMR and Mass spectroscopic methods - structure determination of organic compounds by UV, IR, <sup>1</sup>H NMR, <sup>13</sup>C NMR and Mass spectroscopic methods.
  32. Green chemistry: Principles of Green chemistry, and its approaches.

## Written Examination Syllabus for the post of Junior Lecturer in Residential Educational Institutions Societies

### Paper-II: Pedagogy of Botany

1. The Nature of Biological Sciences and its Historical Development including the contributions of important Biologists given in the school textbooks. Importance of Biological Sciences in School Curriculum.
2. Values, Aims and Objectives of Teaching Biological Sciences.
3. Child Development; Psychology of Teaching and Learning Biological Sciences.
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5. Approaches, Methods and Techniques of Teaching Biological Sciences with special reference to Living World; Cell & Tissues; Plant World; Animal World; Our Environment; Heredity & Genetics; Evolution and Applied Biology.
6. Planning for Effective Instruction in Biological Sciences: Different Plans and Designing Learning Experiences.
7. Learning Resources and Designing Instructional Material in Biological Sciences; Biological Science Labs; Teaching Aids; Textbooks; ICT in Biological Sciences.
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### Paper - III: Botany

#### I Phycology, Mycology, Bacteria and Viruses

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 and toxic algae, algal biofertilizers ; algae as food and feed and role of algae in industry.

Mycology : General characters of fungi ; substrate relationship in fungi ; cell ultrastructure ; unicellular and multicellular organization ; cell wall composition ; nutrition (saprobic, biotrophic, 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.

Bacteria- ultrastructure and biochemistry of cell wall, nutritional types, reproduction, Plasmids.

Viruses- Characters and ultrastructure of virions and symptomatology and transmission of plant viruses. Mollicuties general characters of spiroplasmas and phytoplasmas Importance of micro organisms: Microbes in medicine, agriculture and environment.

#### II Bryophyta, Pteridophyta and Gymnosperms

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

Pteridophyta : Morphology, anatomy and reproduction ; classification of Psilopsida, Lycopsidea, Sphenopsida and Pteropsida; evolution of stele ; heterospory and origin of seed habit; general account of fossil pteridophyts.

Gymnosperms- Introduction and classification, Structure and reproduction of Cycadales, Ginkgoales, Coniferales, Ephedrales, Welwitschiales and Gnetales.

#### III Taxonomy of Angiosperms

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.

Study of the following families- Magnoliaceae, Malvaceae, Rutaceae, Apocynaceae, Asclepiadaceae, Lamiaceae, Amaranthaceae and Poaceae.

#### IV Plant Anatomy and Embryology

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); vascular tissue differentiation; homeotic mutants in Arabidopsis and Antirrhinum,

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.

## V Plant Resource Utilisation and Conservation

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 - Scope and objectives of 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.

Role of plants in Medicine- morphology, active principles and medicinal value of the following plants-Andrographis, Asparagus, Phyllanthus, Gymnema..

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.

## VI Plant Ecology

Climate, soil and vegetation patterns of the world: Life zones; major biomes and major vegetation and soil types of the world. Vegetation organization: Concepts of community; analytical and synthetic characters of community.

Population characters, interactions of species- positive and negative interactions of species. Ecological succession: types, changes involved in succession, concept of climax Biotic and abiotic interactions, habitat and niche, allopatric and sympatric speciation. Ecosystem organization: Structure and functions; primary production methods of measurement of primary production, ; energy dynamics (trophic organization, energy flow Pathways, ecological efficiencies); food chains, food web and ecological pyramids, global biogeochemical cycles of C,N, in terrestrial and aquatic ecosystems.

Biological diversity: Concept and levels; speciation and extinction; IUCN categories of threat; distribution and global patterns, hot spots; endemism, inventory.

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

Climate change: Green house gases (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, CFCs: sources, trends and role); ozone layer and ozone depletion ; consequences of climate change (CO<sub>2</sub> fertilization, global warming, sea level rise, UV radiation).

Biogeographical zones of India, Flora of Telangana - vegetational types.

## VII Cell Biology

Ultrastructure and functions of cell organelles. Cell wall, Plasma membrane Plasmodesmata, Chloroplast, Mitochondria, Plant Vacuoles, Nucleus, Ribosomes,

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. Mitosis and meiosis its significance

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

## VIII 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.

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.

## IX Plant Physiology

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.

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 C4 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, polyamines, jasmonic acid and salicylic acid.

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

X Biotechnology and Genetic Engineering

Plant Biotechnology - Principles, scope and applications.

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

Organogenesis and adventitious 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 - mediated and microprojectile, chloroplast transformation, intellectual property rights, ecological risks and ethical concerns.

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3. Child Development; Psychology of Teaching and Learning Biological Sciences.
4. Biological Sciences Curriculum: Construction, Organization and Development.
5. Approaches, Methods and Techniques of Teaching Biological Sciences with special reference to Living World; Cell & Tissues; Plant World; Animal World; Our Environment; Heredity & Genetics; Evolution and Applied Biology.
6. Planning for Effective Instruction in Biological Sciences: Different Plans and Designing Learning Experiences.
7. Learning Resources and Designing Instructional Material in Biological Sciences; Biological Science Labs; Teaching Aids; Textbooks; ICT in Biological Sciences.
8. Measurement and Evaluation in Biological Sciences: Continuous and Comprehensive Evaluation (CCE); Tools and Techniques of Evaluation; Achievement and Diagnostic Tests.
9. Learning Disabilities/Difficulties and Education of Exceptional/ Disabled Children in Biological Sciences.
10. Biological Sciences and Everyday Life; Non-formal Biological Sciences Education.

**Written Examination Syllabus for the post of Junior Lecturers in  
Residential Educational Institutions Societies  
Paper - III: Zoology**

**I**     **General Concepts:**

1. Levels of structural organization: Unicellular, Multi cellular and Colonial forms, Prokaryotic and Eukaryotic cells, Levels of organization of Tissues, Organs & Systems.
2. Acoelomata, Pseudocoelomata, Coelomata, Proterostomia and Deuterostomia.
3. Concepts of species and Hierarchical taxa, Biological nomenclature, Classical methods of taxonomy of animals.

**II**     **Non-Chordata:**

1. General characters and classification of invertebrates up to class level.
2. Protozoa - Locomotion, Nutrition and Reproduction in Protozoa, Protozoan diseases of man - Amoebiasis, Malaria, Trypanosomiasis.
3. Porifera - Canal system in Porifera, Skeleton in Porifera, Reproduction in sponges.
4. Coelenterata - Polymorphism, Metagenesis, Coral formation, Obelia.
5. Helminthes - Common Helminthic parasites of Man - Fasciola hepatica, Schistosoma, Taenia solium, Echinococcus granulosus, Ascaris, Ancylostoma, Trichinella - their life cycles, Pathogenesis and clinical significance. Parasitic adaptations in Helminths.
6. Annelida - Excretory system in Annelida, Coelom formation. Coelom and coelomoducts, Metamerism.
7. Arthropoda - Mouthparts of insects, Ommatidium, Useful and harmful insects, Metamorphosis in insects, Apiculture and Sericulture in India, Crustacean larvae, Peripatus.
8. Mollusca - Torsion and Detorsion, Pearl formation.
9. Echinodermata - Echinoderm larvae, Water vascular system.

**III**     **Chordata:**

1. General characters and classification of chordates up to class level, Origin of chordates, Phylogeny and Affinities of Hemichordata, Retrogressive metamorphosis.
2. Vertebrate integument and its derivatives, Comparative account of Digestive, Respiratory, Circulatory, Excretory and Reproductive systems of vertebrates.
3. Pisciculture in India, Common edible fishes.
4. Origin and evolution of Amphibia, Neoteny or Paedogenesis.
5. Important snakes of India, Identification of Poisonous and non- Poisonous Snakes, Poisonous Apparatus, Dinosaurs.
6. Flight adaptations and Migration in birds. Archeopteryx, Poultry.
7. Adaptive radiation in Mammals, Dentition in Mammals.

**IV**     **Cell Biology:**

1. Prokaryotic and Eukaryotic cell, Plasma membrane-Ultra structure & function.
2. Structure and function of intracellular organelles- Mitochondria, Golgi bodies, Lysosomes, Endoplasmic reticulum, Peroxisomes, Vacuoles, Nucleus.
3. Chromosomes structure & function; Heterochromatin, Euchromatin.
4. Cell division - Mitosis and meiosis, Cell cycle & its regulation.

5. Recombinant DNA technology, Transgenesis & Cloning.
6. Protein synthesis - Genetic code, Initiation, Elongation and Termination.
7. Regulation of gene expression - Lac operon.

#### V Genetics:

1. Mendel's law of inheritance.
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).
4. Mutations - Types (Spontaneous and Induced), Causes and detection.
5. Chromosomal aberrations (Deletion, Duplication, Inversion and Translocation, Ploidy and their genetic implications); Autosomal abnormalities (Down's syndrome, Trisomy- 13, 18); Sex anomalies (Turner's syndrome, Klinefelter's syndrome, Hermaphroditism).
6. Human genetics - Human karyotyping, Genetic disorders due to mutant genes (Huntington's chorea), Sickle-cell anaemia (SCA), Inborn errors of metabolism- Phenylketonuria, Alkaptonuria .

#### VI System and Cell physiology:

1. Blood and circulation - Blood corpuscles, Haemopoiesis, Plasma function, Blood groups, Haemoglobin, Haemostasis.
2. Cardiovascular system - Neurogenic, Myogenic heart, Cardiac cycle.
3. Respiratory system - Transport of gases, Exchange of gases.
4. Nervous system - Neuron, Conduction of nerve impulse, Synaptic transmission, Neurotransmitters.
5. Muscle - Ultra structure of skeletal muscle, Mechanism of muscle contraction.
6. Sense organs - Eye and Ear.
7. Excretory system - Structure & function of mammalian Kidney and Nephron, Micturition.
8. Osmoregulation - Osmoregulation in Aquatic & Terrestrial animals.
9. Digestive system - Digestion, absorption, assimilation and egestion.
10. Endocrinology and Reproduction - Endocrine glands, Types of hormones & Mechanism of hormonal action, Hormonal regulation of reproduction in mammals.
11. Outline classification of organic compounds (Carbohydrates, Proteins and Lipids).
12. Glycolysis (EMP), Krebs' cycle (TCA CYCLE), Electron transport system (Oxidative phosphorylation), Pentose phosphate pathway, Gluconeogenesis.

#### VII Evolution:

1. Origin of life - Theories and Evidences of organic evolution, The modern synthetic theory.
2. Population genetics - (Gene pool, Gene frequency), Hardy weinberg's law.
3. Isolation and speciation.
4. Evolution of Man.
5. Zoogeographical realms of the world.

#### VIII Developmental Biology:

1. Spermatogenesis and Oogenesis.
2. Fertilization, Cleavage, Gastrulation, Formation of germ layers, Parthenogenesis.
3. Formation and Function of Foetal membranes.
4. Types of placenta.

5. Development of Frog and Chick.

**IX** Histology:

1. Histology of mammalian tissues and organs - Epithelial, connective, blood, bone, cartilage, skin, stomach, intestine, liver, pancreas, kidney, testis and ovary.

**X** Ecology:

1. Concepts 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 Tropic levels.
4. Animal Associations (Neutralism, Mutualism, Symbiosis, Commensalism, Parasitism, Predation and Competition).
5. Ecological succession.
6. Environmental pollution- Air, water, land, noise, radioactive, thermal, Effects of pollution on ecosystem, Prevention of pollution.
7. Wildlife in India- Conservation, Chipco movement.
8. Biodiversity- Economic significance, Conservation, Hot spots of India.

**XI** Immunology:

1. Cells of the immune system- Lymphoid cells, Mono nuclear 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. Humoral immunity - Immunoglobulin (Fine structure of immunoglobulin and Immunoglobulin classes).
5. Innate (Non-specific immunity) - Anatomical barriers, Phagocytosis, Natural killer cells (NK cells), Interferons.
6. Cell mediated immunity - Mechanism of cell mediated immunity.



## Written Examination Syllabus for the post of Junior Lecturer in Residential Educational Institutions Societies

### Paper-II: Pedagogy of History

1. The Nature of Social Sciences and its Historical Development including the contributions of important Social Scientists and thinkers given in the school textbooks. Importance of Social Sciences in School Curriculum.
2. Values, Aims and Objectives of Teaching Social Sciences.
3. Psychology of Teaching and Learning Social Sciences.
4. Social Sciences Curriculum: Construction, Organization and Development.
5. Approaches, Methods and Techniques of Teaching Social Sciences with special reference to the topics in the School Curriculum.
6. Planning for Effective Instruction in Social Sciences: Different Plans and Designing Learning Experiences.
7. Learning Resources and Designing Instructional Material in Social Sciences; Social Sciences Labs; Teaching Aids; Textbooks; ICT in Social Sciences.
8. Measurement and Evaluation in Social Sciences: Continuous and Comprehensive Evaluation (CCE); Tools and Techniques of Evaluation; Achievement and Diagnostic Tests.
9. Learning Disabilities/Difficulties and Education of Exceptional/ Disabled Children in Social Sciences.
10. Social Sciences and Everyday Life; Non-formal Social Sciences Education.

**Written Examination Syllabus for the post of Junior Lecturers in  
Residential Educational Institutions Societies  
Paper - III: History**

**I Ancient  
India:**

1. Definition of History, Scope, Nature, Sources.
2. Pre and Proto History - Stone ages and Chalcolithic Cultures.
3. Harappan Civilization - Characteristic features, Major cities - Socio-Economic conditions, Harappan Script, Religious practices -Decline.
4. Iron Age -Aryan Migrations - Second Urbanization.
5. India in 6th Century BC; Early States, Sixteen Mahajanapadas, Rise and Growth ofMagadha - Society, Economy - Jainism, Buddhism, Ajivikas and Lokayatas.
6. Mouryan Age: Chandragupta Mourya and Ashoka, Mouryan Polity, Administration, Dhamma, Socio-Economic conditions - Decline.
7. Satavahana Age; Political History, Administration, Society, Economy and Culture.
8. Gupta Age: Political History, Administration, Socio-Economic conditions, Growth ofCulture, Arts and Architecture, Literature - Decline.
9. India in the Seventh Century A.D.; Pushyabhutis (Harsha), Pallavas, Chalukyas andRashtrakutas - Political History, Society, Economy and Culture.

**II Medieval India:**

10. India between 650 A.D. to 1200 A.D.- Rajputs, Arab and Turkish Invasions - LaterPallavas, Chalukyas
11. Age of Delhi Sultanate 1206 A.D. -1526 A.D. - Political History, Administration,Changes in Society and Economy- Bhakti and Sufi Movements.
12. Age of Vijayanagara - Origin, Political History, Krishnadevaraya, Socio-EconomicConditions, Culture, Art, Architecture, Decline - Bahamanis.
13. Moghul Age (1526-1707) - Political History, Shershah, Akbar, Administration,Society, Economy, Culture- Decline - Marathas, Shivaji.

**III. Modern India**

14. Establishment of British Power in India -Early Resistance - Hyder Ali, Tippu Sultan.
15. British paramountcy in India-Policies of Governor Generals, Impact of British Policyon Indian Agriculture and Economy.
16. Socio - Religious Reforms Movements -Brahmo Samaj -Arya Samaj, SatyashodhakSamaj and others.
17. 1857 Revolt; causes, results and significance.
18. Rise and Growth of Indian National Movement -Nationalist Movement I Phase from1885 A.D. -1905 A.D. - Indian National Congress; Moderates, Extremists and Early Revolutionaries II phase at 1905-1920 - Vande Mataram Movement Home Rule - Role of Tilak and Anie Beasant- Later phase of Revolutionary Movement. III Phase 1920-1947 - Non Co-operation Movement, Emergence of Gandhi, Civil Disobedience, Salt Satyagraha, Quit India Movement- Subhash Chandra Bose - Constitutional Reforms- Dr.B.R.Ambedkar - Declaration of Independence - Role of Women in Indian National Movement.

**IV Modern World:**

19. Industrial Revolution- Significance and Results.
20. American War of Independence - Causes, Results, Significance.

21. French Revolution - Causes, 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 - League of Nations.
24. The Russian Revolution of 1917 - Causes, Results and Significance.
25. The world between the Two World Wars - Nazism in Germany, Fascism in Italy, Turkey under Mustafa Kemal Pasha.
26. Developments in China 1911-1949 - Nationalist Revolution of 1911 - Communist Revolution of 1948.
27. World War-II - Causes and Effects - United Nations Organisation.

## V History of Telangana

28. Pre History
29. Pre-Satavahana, Satavahana, Post-Satavahana - Ikshvakus, Vakatakas, Abirata and Vishnukundis.
30. Telangana from 7th Century to 11th Century- Chalukyas of Badami, Vemulavada, Mudigonda and Kalyana.
31. Age of Kakatiya's; Origin, Political History, Administration, Socio Economic, Religious conditions, Art and Architecture and Literature and their Subordinates.
32. Padma Nayaka's and Musunoori.
33. Qutubshahis - Administration, Religion, Art, Architecture and Literature.
34. Asafjahis - Administration, Economy, Culture and Society, British Paramountcy on Hyderabad State. Freedom Movement in Telangana, Telangana Armed Struggle.

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**Written Examination Syllabus for the post of Junior Lecturers in  
Residential Educational Institutions Societies**

**Paper - III: Economics**

**I. Micro Economics**

**1. Demand Analysis**

Definitions, Nature and Scope of Economics - Micro and Macro Economic Analyses - Concepts of Demand and Law of Demand - Determinants and Types of Demand - Demand Function - Concepts of Supply and Law of Supply - Market Equilibrium - Elasticity of Demand : Concept and Types -Measurement Methods of Price Elasticity of Demand

**2. Utility Analysis**

Cardinal and Ordinal Utility Approaches - Law of Diminishing Marginal Utility - Law of Equi-Marginal Utility - Consumer Surplus - Indifference Curve Analysis: Consumer's Equilibrium - Derivation of Demand Curve with the help of Indifference Curves - Price, Income and Substitution Effects - Revealed Preference Theory

**3. Production Analysis**

Production, Production Function and Factors of Production - Law of Variable Proportions - Isoquant, Isocost Curves and Producer's Equilibrium - Laws of Returns to Scale - Economies of Scale - Cost Analysis: Cost Curves in Short Run and Long Run - Revenue Analysis - Relationship among Average Revenue, Marginal Revenue and Elasticity of Demand

**4. Market Structure Analysis**

Concepts of Firm, Industry and Market - Classification of Markets - Objectives of the Firm - Equilibrium of a Firm - Shut-Down Point - Perfect Competition: Concept, Characteristics, Equilibrium of Firm and Industry - Optimum Firm - Monopoly: Concept, Types, Characteristics and Equilibrium of the Firm - Price Discrimination - Monopolistic Competition: Concept, Characteristics and Equilibrium of the Firm

**5. Oligopoly, Duopoly and Factor Pricing Analysis**

Oligopoly: Concept, Characteristics and Price Rigidity - Kinky Demand Curve - Duopoly: Concept and Characteristics - Cournot Model - Marginal Productivity Theory of Distribution

- Distribution Theories of Rent, Wages, Profit and Interest

**II. Macro Economics**

**1. National Income Analysis**

Concept, Nature & Scope and Importance of Macro Economics - Concept of Circular Flow of Incomes - National Income Analysis: Concepts and Components - Methods of Measurement of National Income - Importance of and Difficulties in the Estimation of National Income - Limitations of National Income as a Measure of Welfare

**2. Theories of Income and Employment**

Classical Theory of Employment: Say's Law of Markets and Pigou's Wage Cut Policy - Keynesian Theory of Income and Employment: Effective Demand, Aggregate Demand Function and Aggregate Supply Function - Consumption Function - Factors Determining Consumption Function - Savings Function - Concepts of Multiplier, Accelerator and Super-Multiplier

**3. Theories of Investment and Interest Rate**

Capital and Investment - Types and Determinants of Investment - Marginal Efficiency of Capital - Classical, Neo-Classical and Keynesian Theories of Interest - Simultaneous Determination of Interest and Real Income through IS-LM Framework

#### 4. Supply of Money and Demand for Money

Meaning, Functions and Classification of Money - Meaning and Measures of Money Supply -

Demand for Money - Classical Theories of Money: Fisher's and Cambridge Versions of Quantity Theory of Money - Keynesian and Milton Friedman Approaches to Demand for Money

#### 5. Inflation and Trade Cycles

Inflation: Concept, Types, Causes and Measurements - Effects of Inflation - Measures to Control Inflation - Phillips Curve, Deflation and Stagflation - Trade Cycles: Concept, Nature and Causes - Phases and Remedial Measures of Trade Cycles

### III. Public Finance

#### 1. Introduction to Public Finance

Role of State in Economic Activities, Planning and Development - Nature, Scope and Evolution of Public Finance - Public, Private and Merit Goods - Multiple Theory of Public Household - Principle of Maximum Social Advantage

#### 2. Public Revenue and Taxation

Public Revenue: Sources and Classification - Direct and Indirect Taxes - Progressive, Proportional and Regressive Taxes - Canons of Taxation - Characteristics of a Good Tax System - Impact and Incidence of Taxation - Effects of Taxation

#### 3. Public Expenditure and Public Debt

Public Expenditure: Classification and Principles - Determinants of Public Expenditure - Theories of Public Expenditure: Wagner and Peacock-Wiseman - Effects of Public Expenditure - Public Debt: Nature, Sources and Classification - Effects and Redemption of Public Debt - Debt Trap

#### 4. Fiscal Policy and Federal Finance

Fiscal Policy: Concept, Objectives and Tools - Fiscal Policy and Monetary Policy - Federal Finance: Concept and Features - Centre-State Financial Relations - Transfer of Resources from Centre to State and Local Bodies - Functions of Finance Commission - Current Finance Commission's Recommendations

#### 5. Budget

Budget: Concepts, Classification and Types - Revenue Account and Capital Account - Budget Deficits: Concepts, Types and Implications - Fiscal Responsibility and Budget Management (FRBM) - Budgeting in India

### IV. International Economics

#### 1. Theories of International Trade

International Trade, Inter-Regional Trade and Inter-Industry Trade - Gains from Trade - Trade as an Engine of Economic Growth - Role of International Trade in Economic Development - Classical and Neo-Classical Theories of International Trade - Heckscher- Ohlin Theory of International Trade

#### 2. Terms of Trade and Barriers to Trade

Concepts of Terms of Trade - Factors Affecting Terms of Trade - Uses and Limitations of Terms of Trade - Secular Deterioration Hypothesis of Terms of Trade: Singer and Prebisch - Tariffs, Quotas and Subsidies: Their Effects - Impact of Tariffs on Partial and General Equilibrium Analyses - Political Economy of Non-Tariff Barriers and Their Implications

#### 3. Balance of Payments

Concepts of Balance of Trade and Balance of Payments - Factors Affecting Balance of Trade - Differences Between Balance of Trade and Balance of Payments -

Components of Balance of Payments -Equilibrium and Disequilibrium in Balance of Payments - Types of Disequilibrium - Causes and Consequences of Disequilibrium in Balance of Payments - Remedial Measures for Correcting Disequilibrium in Balance of Payments - Recent Trends in India's Balance of Payments

#### 4. Exchange Rates

Foreign Exchange Market - Exchange Rates: Concept and Types - Relative Merits and Demerits of Fixed and Flexible Exchange Rates - Theories of Exchange Rates Determination: Mint Parity and Purchasing Power Parity (PPP) - An Overview of Different Methods of Exchange Rate Determination in India

#### 5. International Monetary System and International Finance

Lending Operations of International Financial Institutions: IMF, World Bank (IBRD), IDA, IFC, ADB and BRICS - Euro-Dollar and Euro-Currency Markets - International Trade Institutions: GATT and WTO - Impact of WTO on Indian Economy

### V. Economics of Development and Growth

#### 1. Socio-Economic and Institutional Aspects of Economic Development

Concepts of Economic Growth, Development and Underdevelopment - Distinction Between Growth and Development - Objectives of Economic Development - Sustainable Development and Inclusive Growth - Indicators of Economic Development

#### 2. Factors of Economic Development

Factors Hindering Economic Development - Factors Promoting Economic Development - Population and Economic Development - Population Explosion - Theories of Demographic Transition - Malthusian Population Theory - Optimum Theory of Population - Natural Resources and Economic Development

#### 3. Theories of Growth and Development

Classical Theories of Economic Growth: Adam Smith, Ricardo and J. S. Mill - Karl Marx Theory of Economic Development - Schumpeter's Theory of Economic Development - Rostow's Theory of Economic Growth

#### 4. Strategies of Economic Development and Growth

Big Push Theory - Balanced Growth Strategies of Rodan, Nurkse and Lewis - Unbalanced Growth Strategy of Hirschman - Critical Minimum Effort Thesis - Low Level Equilibrium Trap - Theories of Social and Technological Dualism

#### 5. Growth Models Harrod-Domar Growth Model - Kaldor's Growth Model - Joan Robinson's Growth Model - Gunnar Myrdal's Model - Choice of Techniques: AK Sen - Technical Progress: Hick and Harrod

### VI. Indian Economy

#### 1. Basic Structure and Demographic Features of Indian Economy

Basic Features of Indian Economy: Growth, Trends and Structural Changes in Indian Economy - Demographic Features of Indian Population - Size, Growth and Composition of Population and Their Implications on Indian Economy -Sectoral and Occupational Distribution of Population in India - Population Policy of India - Human Resource Development: Education and Health - Human Development Index

#### 2. National Income, Income Inequalities, Poverty and Unemployment

Estimation of National Income in India - Trends and Composition of National Income in India - Income Inequalities in India: Magnitude, Causes, Consequences and Remedial Measures - Poverty in India: Concept, Types, Trends, Causes and Consequences - Unemployment in India: Concept, Types, Trends, Causes and Consequences - Poverty Alleviation and Employment Generation Programmes in India

### 3. Planning and Public Policy

Concept, Types and Importance of Planning - Major Objectives of Five Year Plans in India

Review of Five Year Plans : Achievements and Failures - Current Five Year Plan - NITI Aayog - Economic Reforms: Liberalisation, Privatisation and Globalisation - A Critical Evaluation of Economic Reforms Regional Imbalances - Rural-Urban Disparities: Migration

### 4. Agricultural Sector

Nature and Importance of Agriculture in Indian Economic Development - Trends in Agricultural Production and Productivity - Agricultural System in India and Land Reforms - Green Revolution - Cropping Pattern - Agricultural Finance and Rural Indebtedness - Agricultural Marketing - Agricultural Pricing - Food Security in India

### 5. Industrial and Service Sectors

Structure, Growth, Trends and Importance of Indian Industry - Problems of Indian Industry

- Medium, Small Scale and Micro Enterprises (MSME) : Growth, Role and Problems (Including Sickness Problem) - Industrial Policies of 1948 and 1991 - FEMA and Competition Commission of India - Disinvestment Policy - Foreign Direct Investment - Concept and Components of Service Sector - Infrastructural Development: Transport, Energy, Communication and Information and Technology

## VII. Telangana Economy

### 1. Telangana Economy: Human Resources

Economic History of Telangana - Economic Features of Telangana - Demographic Features of Telangana - Occupational Distribution of Population in Telangana - Sectoral Distribution of Population - Human Resource Development: Education and Health

### 2. Gross State Domestic Product, Poverty and Unemployment

Growth and Trends in Gross State Domestic Product and Per Capita Income in Telangana: District wise Analysis - Sectoral Contribution to Gross State Domestic Product - Inequalities in the Distribution of Income and Wealth - Poverty in Telangana: Trends, Causes and Consequences - Unemployment in Telangana: Trends, Causes and Consequences - Poverty Alleviation and Employment Generation Programmes in Telangana - Other Welfare Programmes in Telangana State

### 3. Agricultural Sector

Growth of Agriculture in Telangana Economy - Trends in Agricultural Production and Productivity - Determinants of Agricultural Productivity - Cropping Pattern - Agrarian Structure and Land Reforms - Irrigation: Sources and Trends - Mission Kakatiya - Agricultural Credit and Rural Indebtedness -Agricultural Marketing

### 4. Industrial Sector

Structure of Telangana Industry - Growth and Pattern of Industrial Development in Telangana - Industrial Policy of Telangana State - Special Economic Zones (SEZ) - Role of Small Scale Industries in Telangana Economy - Problems & Remedial Measures of Small Scale Industries: Issue of Sickness - Industrial Finance in Telangana

### 5. Service and Infrastructural Sectors

Growth and Trends in Tertiary Sector in Telangana - Growth and Pattern of Development of Service Sector in Telangana - Infrastructural Development in Telangana: Transport, Energy, Communications, Information Technology and Tourism

## VIII. Quantitative Methods for Economic Analysis

### 1. Mathematical Foundations of Economic Analysis



Need and Importance of Quantitative Methods in Economics - Meaning and Basic Concepts of Mathematics: Constants and Variables - Functions: Linear, Non-Linear Functions - Equations and Graphs of Linear, Quadratic and Cubic Functions - Concept of Derivative -- Rules of Differentiation with respect to Cost, Revenue, Price and Demand Functions - Application of Maxima and Minima in Economic Analysis

## 2. Introduction to Statistics

Meaning, Basic Concepts and Uses of Statistics - Population and Sample - Frequency Distribution, Cumulative Frequency - Graphic and Diagrammatic Representation of Data - Types of Data: Primary and Secondary Data - Methods of Data Collection: Census and Sampling Methods (Random and Non-Random Sampling Methods)

## 3. Measures of Central Tendency and Dispersion

Measures of Central Tendency: Mean, Median, Mode, Geometric Mean and Harmonic Mean

- Properties of Good Average - Comparison of Different Averages - Measures of Dispersion
- Absolute and Relative Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of Variation and Variance

## 4. Correlation and Regression

Correlation: Meaning and Types - Karl Pearson's Correlation Co-efficient - Spearman's Rank Correlation - Regression: Meaning and Uses of Regression - Estimation and Interpretation of Regression Line

## 5. Index Numbers and Time Series Analysis

Index Numbers: Meaning and Uses - Types of Index Numbers - Methods of Index Numbers: Laspayer, Paasche and Fisher - Analysis of Time-Series: Meaning and Uses - Components of Time Series Analysis: Secular, Seasonal, Cyclical and Irregular Variations - Methods of Measurement of Secular Trends: Graphic, Semi-Averages, Moving Averages and Least Squares Methods

## IX. Banking and Economics of Infrastructure

### 1. Commercial and Central Banking

Commercial Banks: Concept and Types - Functions and Principles of Commercial Banks - Balance Sheet of Commercial Banks - Process of Credit Creation - Social Responsibility, Importance and Growth of Commercial Banks in India - Central Banking - Functions of Reserve Bank of India - Concept and Objectives of the Monetary Policy - Instruments of Monetary Policy - Financial Sector Reforms in India

### 2. Financial and Investment Banking

Concept, Types, Functions and Growth of Non-Banking Financial Intermediaries - Their Impact on Indian Economy - Measures Taken to Control Their Operations - Development Bank: Concept, Functions and Importance - Functioning of Different Development Banks - Investment Banking - Merchant Banking

### 3. Money Market and Capital Market (Financial Markets)

Money Market: Concept and Characteristics - Components and Sub-Markets of Money Market - Functions of Money Market - Recent Trends and Importance of Money Market in India - Capital Market: Concept, Functions and Importance - Components of Capital Market: Primary and Secondary Markets - Stock Exchange: Concept and Functions - SEBI and Its Functions

### 4. Infrastructure and Economic Development

Concept of Infrastructure - Infrastructure as a Public Good - Special Characteristics of Public Utilities - Importance of Infrastructure in Economic Development - Trends in the Growth of Infrastructure in India - Classification of Infrastructure: Social and Physical Infrastructure - Social Infrastructure: Education, Health and Hygiene -

Human Resource Development: Concept, Scope and Importance - Education in India: Planning, Policies and Financing - Trends in the Growth of Education in India - Health in India: Planning, Programmes and Importance

## 5. Physical Infrastructure

Types of Physical Infrastructure - Concept of Energy - Sources of Energy: Renewable & Non-Renewable and Conventional & Non-Conventional Energy - Sources of Commercial Energy: Coal, Oil & Gas and Electric Power - Transport - Modes / Categories of Transport: Roadways, Railways, Airways and Waterways - Role of Transportation in Economic Development - Information and Communication Technology (ICT): Concept, Growth, Trends and Importance

## X. Economics of Environment

### 1. Introduction to Environmental Economics

Concepts of Ecology and Environment - Interaction Among Ecology, Environment and Economy - Micro Economic Theory of Environment - The Pricing of the Environmental Variables - Pareto Optimality and Market Failure in the Presence of Externalities - Bio-Diversity: Meaning, Uses, Effects and Conservation

### 2. Resource Allocation

Natural Resources: Meaning, Features, Classification and Importance - Economics of Exhaustible, Non-Exhaustible Resources - Problems of Resource Allocation - Natural Resources Depletion: Optimal Rate of Depletion - Common Property Resources: Problems - Conservation of Resources - Implications of Ecological Imbalances

### 3. Environmental Valuation

Valuation of Non-Market Goods and Services: Measurement Methods - Environmental Degradation: Concept and Causes - Valuation of Environmental Degradation - Direct and Indirect Methods - Degradation of Land (Soil), Forest and Natural Resources: Causes and Effects - Cost-Benefit Analysis of Environmental Policies and Regulations

### 4. Sustainable Development

Impact of Environment on GNP - Limits to Growth - Sustainable Development: Concept and Rules - Modern and Neo-Classical Views on Sustainable Development - Peoples Movement for Sustainable Development - Development vs Sustainable Development

### 5. Environmental Pollution and Policies

Environment and Economy Interaction - Industrial and Agricultural Technology: Its Impact on Environment - Different Types of Pollution: Their Causes and Effects - Environmental Policy and Conservation and Protection of Eco-System - Implementation of Environmental Policies in India - Global Environmental Issues.

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Paper - III: Civics

I. Public Policy

- a) Introduction to Public Policy : Nature, Scope and Importance of Public Policy, Public Policy as a Policy Science
- b) Theories: Systems, Structural-Functional, Incremental, Elite, Group Theory
- c) Public Policy Making: Role of Legislature, Executive, Judiciary, Bureaucracy, Political Parties, Pressure Groups, Mass Media
- d) Policy Impact and Policy Evaluation: Land Reforms, Irrigation, Education, Health, Food Security and Social Security Policies

II. Research Methodology

- a) Social Science Research : Importance and Objectivity in Social Science Research -
- b) Scientific Method
- c) Research Methods - Historical, Analytical, Descriptive, Exploratory, Case Study Method
- d) Research Design : Selection of Research Problem and Hypotheses
- e) Data Collection : Primary and Secondary Sources
- f) Data Analysis, Interpretation and Report Writing

III. Public Administration

- a) Introduction : Meaning, Nature, Scope and Importance of Public Administration
- b) Evolution of Public Administration : Classical, Human Relations, Behavioural, Ecological
- c) , Socio-Psychological Approach, New Public Management
- d) Principles of Organisation - Hierarchy, Span of Control, Unity of Command, Centralisation Decentralisation - Bases of Departmental Organisation - Line Agencies and Staff Agencies, Leadership
- e) Union Government : Parliament, President, Prime Minister, Council of Ministers, Cabinet, Cabinet Secretariat, Prime Minister's Office (PMO)
- f) State Government : State Legislature, Governor, Chief Minister and Council of Ministers, Secretariat and Directorates
- g) District Administration : District Collector, Special Agencies - District Rural Development Agency, Integrated Tribal Development Agency
- h) Local Government: Rural - Panchayati Raj Institutions - Gram Panchayat, Mandal Parishad, Zilla Parishad. Urban - Municipal Corporation, Municipalities, Urban Development Authorities, District Planning Committee
- i) Constitutional Bodies : Comptroller & Auditor General, Finance Commission, Election Commission, Commissions for SC, ST, BCs, Women and Minorities

IV. Political Science

- (a) Introduction : Definition, Meaning, Nature, Scope and Importance of Political Science
- (b) State : Essential Elements - Sovereignty and Theories of Sovereignty : Monistic and Pluralistic Theories of Sovereignty - Theories of Origins of State : Divine Origin, Social Contract, Historical and Evolutionary - Sphere of State Activity : Laissez Faire, Anarchist, Fascist, Socialist, Marxist, Welfare State
- (c) Basic concepts : Law, Liberty, Equality, Rights and Justice
- (d) Governments : Classification of Governments - Traditional and Modern - Forms Governments : Unitary, Federal, Presidential and Parliamentary
- (e) Democracy: Direct Democracy and Indirect Democracy - Direct Democratic Devices
- (f) Theory of Separation of Powers - Legislature, Executive and Judiciary and their functions
- (g) Social and Political Movements : Separate Telangana Statehood Movement - Dalit and

Tribal Movements, Women's Movement and Environmental Struggles

V. India's Foreign Policy: Determinants and Features, Non-Alignment and U.N.O.

Written Examination Syllabus for the post of Junior Lecturer in Residential Educational Institutions Societies

**Paper-II: Pedagogy of Commerce**

31. The Nature of Social Sciences and its Historical Development including the contributions of important Social Scientists and thinkers given in the school textbooks. Importance of Social Sciences in School Curriculum.
32. Values, Aims and Objectives of Teaching Social Sciences.
33. Psychology of Teaching and Learning Social Sciences.
34. Social Sciences Curriculum: Construction, Organization and Development.
35. Approaches, Methods and Techniques of Teaching Social Sciences with special reference to the topics in the School Curriculum.
36. Planning for Effective Instruction in Social Sciences: Different Plans and Designing Learning Experiences.
37. Learning Resources and Designing Instructional Material in Social Sciences; Social Sciences Labs; Teaching Aids; Textbooks; ICT in Social Sciences.
38. Measurement and Evaluation in Social Sciences: Continuous and Comprehensive Evaluation (CCE); Tools and Techniques of Evaluation; Achievement and Diagnostic Tests.
39. Learning Disabilities/Difficulties and Education of Exceptional/ Disabled Children in Social Sciences.
40. Social Sciences and Everyday Life; Non-formal Social Sciences Education.

Written Examination Syllabus for the post of Junior Lecturer in Residential Educational Institutions Societies

**Paper- III: Commerce**

- I. 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.

- II. Financial and Management Accounting: Accounting concepts and conventions - GAAP - Indian Accounting Standards - Accounting process- Final Accounts (Sole Trade, Partnership and Company) - Depreciation Accounting - Accounts from Incomplete Records - Accounts of Non-Trading Organisations - Analysis of Financial Statements - Techniques: Comparative and Common Size statements, Trend analysis, Ratio analysis, Funds Flow and Cash Flow analysis - Marginal Costing and Decision Making.
- III. Cost Accounting and Control: Cost concepts and Classification - Installation of costing system - Elements of Cost: Material, Labour and Overheads - Methods of Costing - Techniques of costing: CVP, Standard Costing and Budgetary control - Uniform costing, Inter-firm comparisons and Activity Based costing - Cost Control, Cost Reduction and Cost Audit.
- IV. Managerial Economics: Meaning, Nature and Scope of Managerial Economics - Demand Analysis, Production and Cost Analysis- Market Structure: Perfect and Imperfect Markets.
- V. Organisation Theory and Behaviour: Organisation concept and theories - Individual vs. Group Behaviour - Motivation and Morale - Communication: Types and Barriers - Leadership: Styles and Theories.
- VI. Marketing Management: Meaning, Concepts, Nature and Scope - Marketing Environment
  - Consumer Behaviour and Market Segmentation - Product, Price, Promotion and Channel management.
- VII. Quantitative Techniques: Measures of Central Tendency - Measurers of Variation - Measurers of Skewness - Correlation and Regression Analysis - Time Series Analysis - Index Numbers - Sampling and Sampling methods.

**Written Examination Syllabus for the post of Physical Director (Junior College)  
in Residential Educational Institutions Societies**

**14. Paper-II: Physical Education**

I. Meaning & Definitions of Physical Education, - Aims and objectives- Foundations of Physical Education - Biological, Philosophical, psychological and Sociological aspects; need and importance of physical education; philosophy of physical education; socialization process - sports as cultural heritage of mankind - sports for all health for all; Physical education in ancient Greece & Athens,- physical education in India; Olympic movement - Historical development of Ancient and modern Olympic games.

II. Essential of Physical Education; concepts and principles of class management- Qualities and qualifications of physical educational personnel - duties & responsibilities; Organisation and administration of physical educational programme in educational; Institutions tournaments; Management of infrastructure, equipments, finance and personnel, Registers & Records methods of teaching; Principles of planning physical educational lessons- pupil- teacher relationship; Construction of physical education time-table. Principles of curriculum planning, curriculum designs, techniques of supervision; Techniques of Sports Management, Demonstration, Conference, Projects, Workshops, Bulletin and Public Relations and Administrations.

III. Research in Physical Education: Introduction to Research - Meaning - Definition - Nature and Scope - Characteristics - Need and importance of research in Physical Education.; Locating and selection of a Research problem, hypothesis formulation- types of testing; Collection of data, tools, sampling techniques Methods of Research - Historical research - Experimental research - Survey method & Case study method; Descriptive and Inferential Statistical Techniques for data analysis and interpretation.

IV. Anatomy and Physiology: Joints and their movements - Planes and axes - Classifications, Posture - Common deformities. Classification of Muscles; Structure and functions of Muscles, Tendons and types of Muscle fibres. Muscular Contraction - Role of Actin, Myosin, Sarcoplasm; Nervous system - co-ordination of muscular activity - Neuromuscular function; Motor and plate - Motor units - Neuromuscular transmission; Cardiovascular and Cardio-Respiratory system, Endocrine system, Hormones - Pituitary, Thyroid, Adrenal - Glands and their location - Parathyroid, Pancreas; Effect of exercise on body organs and systems ; Doping - Ergogenic Aids - Doping - National Anti-Doping Agency (NADA) - Effect of Exercise on Muscular, Cardio-respiratory and Endocrinal systems; Types of Sports injuries - Skin - abrasion, laceration, contusion, blisters, Haematoma - Bone injuries - Fracture and dislocations, Muscle injuries - sprain, Strains and cramps,

V. Kinetic & Kinematic Principles: Kinetic & Kinematic Principles, Meaning of equilibrium, Motion and force, Limitations upon the application of mechanical principles of fundamentals of sports. Factors which determine the degree of stability - Relationship of centre of gravity to equilibrium - Significance of equilibrium in sports; Motion - Newton's Laws of Motion - Laws of Gravitation and freely falling bodies, path of projectiles, special application of principles of projectiles to short put and long jump - of Rotary Motion and Linear Motion; Force - Definition and Meaning of the term Force -Factors of Force (Magnitude, direction and application) to sports - Centrifugal and centripetal forces and their application to sports;Friction; Work, power and Energy -Work done and Energy expended, Kinetic Energy, Potential Energy; Analysis of Activities - Mechanical and scientific analysis of techniques of different sports styles - Walking, running, jumping and throwing.

VI. Test, measurement and Evaluation: Need and use of Measurement and Evaluation in Physical Education; Criteria of a Good Test; Establishing procedure of validity, Reliability, objectivity and Norms; Tests for fitness - Physical Fitness Tests - Speedtest, Rogers Strength tests, Cardiovascular fitness tests (coopers tests, Tuttle pulse ratio test, hard ward step tests), AAHPERD Youth fitness

tests Muscular endurance tests (Bent - knee situps) ; Motor ability - General motor ability ( Barrow and Scot) - Cozen Athletic ability - Motor educability - Indiana motor fitness test - Cozens motor ability tests.; Anthropometric measurements - General Body Measurements Height, weight, Circumferences length, leg length - Girth measurement - Body composition - Fat - Body mass - BMI, BMR Skin fold callipers; Game Skill Tests - Schmithals - French Field Hockey Test, Football Skill Test : Mc Donald Volleying Soccer Test, Volleyball Skill Test : Brady Volleyball ; Test, Russell - Lounge Volleyball Test, Basketball Skill Test : Badminton Test, Johnson Basketball Test.

VII. Sports Psychology : Meaning, concept, nature Definitions of Sports Psychology. Need and importance; Personality and types of Personality- well built sports personality; Emotions- positive, and negative emotions Motivation - Intrinsic and Extrinsic motivation; Role of motivation in sports; The principles of learning - theories of learning, laws of learning. Theory of use and disuse; Emotional Aspects of Sports Anxiety - reasons of anxiety - Measures to control anxiety; Anxiety and coaching intervention -

(i) Pre-competition Preparation (ii) Psychological intervention during competition (iii) Post Competition Evaluation - Arousal - Activation performance and emotion; Aggression and Hostility - Models of aggression - Aggression as an instinct - Frustration - Assessment of aggression - Reason for aggression in sports - factors to control aggression; Arousal and activation - Role of activation in sports - drive theory - sports performance

VIII. Sports training : Meaning, objectives and principles of sports training and talent identification; Various Training Methods - Strength, Speed and Flexibility Development - Strength Training. Speed Training. Endurance Training; isotonic - Isometric Interval Training Planning, and periodisation of Training Process load over load principle Aerobic training; Anaerobic training, Weight training, Fartlek Training, Interval training, Plyometric training, Resistance training, Pressure training; High Altitude training, Functional training, Repetition method of training, and Transfer of training effects; Specific training programme for development of various motor qualities.

IX. Nutrition, Therapy and Yoga: Food - Components / Ingredients Nutrients, Balanced diet, Diet before, During and after the activity. Diet and performance; First Aid and Physiotherapy - First-Aid - Guiding principles of First-Aid; Physiotherapy - Physiotherapy - Meaning definition and principles of physiotherapy, importance of physiotherapy in sports; Yoga -Yoga and its relevance to Physical Education; Yoga Asanas, Pranayama, Mudras and Kriyas - Yoga Vignana - A general survey of the preventive, promotive and curative aspects of Yoga techniques, Like Bronchial Asthma, Hypertensions, Arthritis and Diabetes; Meditations and Concentration - Meaning of Meditation, Concentration and their experiences - types of Meditation - Role of Meditation in relaxations; Effect of Yogic Practices on Different systems.

X. Officiating and Coaching : Meaning, Concept and Definitions - Qualifications and Qualities of good official and Coach - Duties and responsibilities an official and coach

XI. Rules, Regulations, Dimensions and officiating of the Following Games: a) Ball-Badminton, b) Cricket, c) Football, d) Hockey, e) Kabaddi, f) Kho-Kho, g) Tennis, h) Track and Field, i) Basketball, j) Badminton, k) Handball, l) Volleyball, m) Table - Tennis  
n) Gymnastics, o) Swimming, p) Archery, q) Fencing r) Rifle / Pistol Shooting.



**Written Examination Syllabus for the post of Librarian (Junior College)  
in Residential Educational Institutions Societies**

**15. Paper-II : Library & Information Science**

**Unit-1: Foundations of Library and Information Science**

Five Laws of library Science; Types of Libraries and their functions; Library Movement in Telangana, Important libraries in Telangana; Library legislation in India; Library Extension Services; Library Association in India, UK and USA - ILA, IASLIC, SIS, LA and ALA; National & International organizations promoting Library Development- RRRLF, NASSDOC, NISCAIR, DESIDOC, IFLA and UNESCO

**Unit-2: Information, Communication and Society**

Data, Information and Knowledge; Information as a Resource / Commodity; Role of Information in Socio-Economic Development; Information Society, Knowledge Society; Knowledge Management; Information Generation, Collection, Storage and Dissemination; Communication -Channels, Barriers; National Knowledge Commission; Intellectual Property Rights; Copyright; Right to Information Act

**Unit-3: Information Sources**

Source of information-Primary , Secondary and Tertiary; Documentary and Non-documentary; Reference Sources- Dictionaries; Encyclopaedias; Geographical Sources; Biographical Sources; Year Books / Almanacs, Directories and Handbooks; Statistical sources; Bibliographies, Union Catalogues, Indexing and Abstracting Periodicals; Serial Publications; E-Documents - e-Books; E-Journals; Databases- Bibliographic; Numeric; and Full text

**Unit-4: Information Services**

Information services- Bibliographic services, Indexing and Abstracting services, CAS, SDI, Document Delivery Services, Referral services; Online Services; User Education and User Studies; Information Seeking Behaviour and Information Needs; Information Literacy.

**Unit-5: Information Processing (Classification and Cataloguing)**

Organization of knowledge/information; Modes of formation of subjects; Library classification-Canons, Laws and Principles; Notation & Mnemonics; Fundamental categories; Call Number; Common isolates; Library classification Schemes-DDC, UDC, and CC; Library Cataloguing-Canons, Laws and Principles; Library cataloguing codes- CCC and AACR-II; Bibliographic standards: ISBD, MARC and CCF; Indexing-Pre- Coordinate , Post-Coordinate; Vocabulary control - Thesaurus, Lists of Subjects Headings; Information Storage & Retrieval (ISAR): Search Strategies; Boolean Operators; Evaluation of ISAR

**Unit-6: Library Management**

Management-Principles, Functions, Schools of Thought; Organizational Structure; Planning ; Decision making; System study-Analysis, evaluation and design; Collection Development (Books Serials, nonbook, Material)- Principles of book selection;

acquisition procedures; ISBN, ISSN; Maintenance; Preservation & Conservation; Human Resources Management; Financial Management-Resources generation, Budgeting, Cost and Cost-Benefit analysis; PERT, CPM; Library Buildings, equipment & furniture; Marketing information products and services; Total Quality Management (TQM)

#### Unit-7: Fundamentals of Information Technology

Information Technology -Software and Hardware; storage devices; Software - Operating Systems ; Application Software; Client-Server Technology; Different types of Servers.; Communication Technology - Telecommunications; Modem; Router; Wi Fi; Transmission Media; Networking Concepts - Topologies- LAN, MAN, WAN; Communication Tools and Techniques - Fax, E-mail, Tele Conferencing, Video Conferencing, Voice Mail. Hyper Text and Hyper Media. List Serve / Electronic groups.; Standards; Protocols and Formats; Interoperability. ; Internet Basics - WWW; Web Browsers; Search Engines; Internet Connectivity; Data Security- Computer Viruses.

#### Unit-8: Library Automation And Networks

Library Automation -Areas of Automation; Hardware and Software selection; OPAC; Resource Sharing and Library Networks-ERNET, NICNET, DELNET, INFLIBNET; OCLC; Library Consortia; Information systems- INIS, AGRIS, PUBMED, INSPEC; Software for Library Automation.

#### Unit-9: Digital Libraries

Digital Library Initiatives; Digitization - Software & hardware; Standards; File formats; Metadata; Digital Collection Management - e-books; e-journals; Databases; Electronic Thesis & Dissertations; Resource Discovery - Search engines; search tools & techniques; Digital Rights Management, copyright & plagiarism

#### Unit-10: Research Methodology

Types of Research; Scientific Method; Hypothesis , Data Collection; Sampling techniques; Methods of Research-Historical , Case Study, Survey, experimental method etc.; Data Analysis & Interpretation; Report Writing; Bibliometrics, Scientometrics and Webometrics.

## ANNEXURE - III

## INSTRUCTIONS TO CANDIDATES:

A) GENERAL INSTRUCTIONS TO CANDIDATES

- 1) Candidates are directed to follow the Board Website ([www.treirb.telangana.gov.in](http://www.treirb.telangana.gov.in)) regularly to know the latest developments regarding the Recruitment, dates of Examination, calling of candidates for verification of Certificates/ Medical Boards, Results etc.
- 2) The Hall Ticket must be presented for entry into the examination hall along with one original valid Photo identification card issued by Government i.e., Passport, Pan Card, Voter ID, Aadhaar Card, Government Employee ID or Driving License etc., without fail.
- 3) Candidates are strictly not allowed inside the Examination centre after closing the gate.
- 4) EDIT OPTION TO THE CANDIDATES: The applicants should follow the TREIRB website regularly to utilize the edit option to rectify the mistakes viz., Biodata particulars/Data corrections / Omissions etc., in the application, if the facility is given by the Board. If the edit option facility is not utilized by the candidates, the TREIRB is not responsible and the data already available is treated as final. After the due date, Data corrections through Online/Paper representations or Corrections on the Nominal Rolls in the examination hall will not be accepted under any circumstances. No correspondence will be entertained in this matter.
- 5) There will be a common examination for Paper-I i.e., General Studies as decided by the Board, whenever required.
- 6) 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 Board or that the entries made by the candidate in his/her application have been accepted by the Board 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 verification, may lead to disqualification.
- 7) The candidates are not allowed to bring any Electronic devices such as Smart / Mobile phones, Calculators, tablets, iPad, Bluetooth, pagers, watches to examination centre. 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.
- 8) The candidates are expected to behave in an orderly and disciplined manner while writing the examination. If any candidate takes away Answer Sheet of OMR based examination, the candidature will be rejected. In case of impersonation/ disorder/ rowdy behaviour during Examination, cases shall be booked in the Police Station concerned, apart from disqualifying his /her candidature.
- 9) Candidates trying to use unfair means shall be disqualified from the selection. No correspondence whatsoever will be entertained from the candidates.
- 10) The Board is also empowered to invoke the penal provisions of the T.S. Public Examinations (Prevention of Malpractices and Unfair means) Act, 1997 (Act No.25/1997) for matters connected therewith.
- 11) (i) The candidates who are totally blind are allowed to write the examination with the help of scribe provided by TREIRB and 20 minutes extra time is permitted to them per hour.  
(ii) Scribe will be provided by TREIRB to those candidates who do not have both the upper limbs for Orthopedically Handicapped. However, no extra time will be granted to them.  
(iii) Scribe will be provided to the above category of candidates who applied for scribe facility in the online application only.

- (iv) 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). Scribe is allowed to such candidates also.
- (v) The scribe should be from an academic discipline other than that of the candidate and the academic qualification of the scribe should be one grade lower than the stipulated eligibility criteria.
- (vi) The candidate as well as the scribe will have to give a suitable undertaking confirming the rules applicable.

**B) INSTRUCTIONS TO CANDIDATES REGARDING OMR BASED EXAMINATION**

- 1) The candidates have to report to the examination venue at least 30 minutes before the commencement of examination, to record their Photo Image/thumb impression on Biometric system.
- 2) The candidate should satisfy the Invigilator of his identity with reference to the Signature and Photograph available on the Nominal Roll and Hall Ticket.
- 3) The candidates should go through the instructions given on the cover page of test booklet and OMR Answer Sheet which will be provided to him/her in the examination hall and carefully write his/her Hall Ticket Number, Subject / Paper Code, Question Booklet Number, Name of the Examination Centre etc., on the OMR Answer Sheet. The candidates have to USE BALL POINT PEN (BLUE/BLACK) ONLY to fill up relevant columns on the Answer Sheet including MARKING OF THE ANSWERS. Bubbling by Pencil / Ink Pen /Gel Pen is not permitted in the examination.
- 4) The candidate must write all the relevant columns in the Answer sheet and also encode (bubble) correctly such as Hall Ticket Number, Question Booklet Series and Paper Code on the OMR Answer Sheet carefully and to Sign in the space provided for on Side-1 of the Answer Sheet and ensure the Signature of the Invigilator, etc., on it, failing which the Answer sheet will be rejected. Use of whitener / eraser / chalk-powder etc., is strictly prohibited on the OMR Answer sheet/ Question Paper.
- 5) Candidate should encode the Hall-Ticket Number and Paper Code first carefully on OMR Answer Sheet. After receiving the Question Paper only, candidate should verify and encode Question Booklet Number on the OMR Answer Sheet.
- 6) OMR Answer sheets cannot be replaced under any circumstances in case of wrong bubbling.
- 7) If there is any defect in the Test Booklet or OMR Answer Sheet, please ask the invigilator for replacement immediately.
- 8) The OMR Answer sheets are to be scanned (valued) with Optical Mark Reader. The Digital copy of OMR Answer Sheets will be made available on the Board's website immediately after completion of the image scanning.
- 9) No candidate should leave the examination hall till expiry of fulltime. After writing the examination the candidate has to handover the OMR Answer sheet to the invigilator in the examination hall. If any candidate takes away the OMR Answer sheet, his/her candidature will be rejected.
- 10) The Board would be analyzing the responses of a candidate with other appeared candidates to detect patterns of similarity. If it is suspected that the responses have been shared and the scores obtained are not genuine/ valid, the Board will invalidate the OMR Answer Sheet and cancel his/ her candidature.

**ANNEXURE-IV****LIST OF SCHEDULED CASTES AND SCHEDULED TRIBES**

(G.O. MS. NO. 5 Scheduled Castes Development (POA.A2) Dept., Dt. 08/08/2015 read with G.O. Ms. No.

11, Scheduled Castes Development (POA.A2) Dept., Dt. 17/09/2014 and G.O. Ms. No. 2 Scheduled Castes Development (POA.A2) Dept., Dt. 22.01.2015)

**LIST OF SCHEDULED CASTES**

1. Adi Andhra
2. Adi Dravida
3. Anamuk
4. Aray Mala
5. Arundhatiya
6. Arwa Mala
7. Bariki
8. Bavuri
9. Beda (Budga) Jangam
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. Ellamalawar, Yellammalawandlu
22. Ghasi, Haddi, Relli, Chanchandi
23. Godari
24. Gosangi
25. Holey
26. Holey Dasari
27. Jaggali
28. Jambuvulu
29. Kolupulvandlu, Pambada, Pambanda, Pambala
30. Madasi Kuruva, Madari Kuruva
31. Madiga
32. Madiga Dasu, Mashteen
33. Mahar
34. Mala, Mala Ayawaru
35. Mala Dasari
36. Mala Dasu
37. Mala Hannai
38. Malajangam
39. Mala Masti
40. Mala Sale, Nethani
41. Mala Sanyasi
42. Mang
43. Mang Garodi
44. Manne
45. Mashti
46. Matangi
47. Mehtar
48. Mitha Ayyalvar
49. Mundala
50. Paky, Moti, Thoti
51. Pamidi
52. Panchama, Pariah
53. Relli
54. Samagara
55. Samban
56. Sapru
57. Sindhollu, Chindollu
58. Yatala
59. Valluvan

LIST OF SCHEDULED TRIBES

1. Andh, Sadhu Andh
2. Bagata
3. Bhil
4. Chenchu
5. Gadabas, Bodo 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. Kondareddis
16. Kondhs, Kodi, Kodhu, Desaya Kondhs, Dongria Kondhs, Kuttiya Kondhs, Tikiria Kondhs, Yenity Kondhs, Kuvinga
17. Kotia, Benthoriya, Bartika, Dulia, Holya, Sanrona, Sidhopaiko
18. Koya, Doli Koya, Gutta Koya, Kammara Koya, Musara Koya, Oddi Koya, Pattidi Koya, Rajah, Rasha Koya, Lingadhari Koya (ordinary), Kottu Koya, Bhine Koya, Rajkoya
19. Kulia
20. Manna Dhora
21. Mukha Dhora, Nooka Dhora
22. Nayaks (in the Agency tracts)
23. Pardhan
24. Porja, Parangiperja
25. Reddi Dhoras
26. Rona, Rena
27. Savaras, Kapu Savaras, Maliya Savaras, Khutto Savaras
28. Sugalis, Lambadis, Banjara
29. Thoti (in Adilabad, Hyderabad, Karimnagar, Khammam, Mahbubnagar, Medak, Nalgonda, Nizamabad and Warangal districts)
30. Yenadis, Chella Yenadi, Kappala Yenadi, Manchi Yenadi, Reddi Yenadi
31. Yerukulas, Koracha, Dabba Yerukula, Kunchapuri Yerukula, Uppu Yerukula
32. Nakkala, Kurvikaran.

## LIST OF SOCIALLY AND EDUCATIONALLY BACKWARD CLASSES

As per G.O. Ms. No. 16 Backward Classes Welfare (OP) Department, Dated:11.03.2015 and read with G.O.MS.No. 34, Backward Classes Welfare (OP) Department, Dated: 08/10/2015, G.O. Ms. No. 4 Backward Classes Welfare (OP) Department, Dated: 30/01/2016, G.O.Ms.No. 3Backward Classes Welfare (B) Department, Dated: 09-09-2020

## STATE LIST OF BCs

(List of Backward Classes of Telangana State)GROUP-A

(Aboriginal Tribes, Vimuktha Jathis, Nomadic and Semi-Nomadic Tribes etc.)

1. Agnikulakshatriya, Palli, Vadabaliya, Bestha, Jalari, Gangavar, Gangaputra, Goondla, Vanyakulakshatriya (Vannekapu, Vannerreddi, Pallikapu, Pallireddi) Neyyala, Pattapu.
2. Balasanthu, Bahurupi
3. \*[Bandara]
4. Budabukkala
5. Rajaka (Chakali, Vannar)
6. Dasari (formerly engaged in Bikshatana i.e., Beggary)
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 ST list vide. G.O.Ms.No.149, SW, Dt.03.05.1978)
14. Medari or Mahendra
15. Mondivaru, Mondibanda, Banda.

16. Nayi-Brahmin/Nayee-Brahmin (Mangali), Mangala and Bhajantri
17. Nakkala (deleted vide. G.O.Ms.No.21, BCW (C2) Dept., Dt.20.06.2011, since it is included in the list of Scheduled Tribes at Sl.No.34 vide. Scheduled Castes and Scheduled Tribes Order (Amendment) Act, 2002 (Central Act No.10 of 2003)
18. Vamsha Raj / Pitchiguntla
19. Pamula
20. Pardhi (Nirshikari)
21. Pambala
22. Peddammavandlu, Devaravandlu, Yellammavandlu, Mutyalammavandlu, Dammali / Dammala / Dammula / Damala
23. Veeramushti (Nettikotala), Veerabhadreeya
24. Valmiki Boya (Boya, Bedar, Kirataka, Nishadi, Yellapi, Pedda Boya), Talayari, Chunduvallu (Yellapi and Yellapu are one and the same as clarified vide. G.O.Ms.No.61, BCW (M1) Dept., Dt.05.12.1996)
25. Yerukalas in Telangana area (deleted and included at Sl.No.31 in the list of STs)
26. Gudala
27. Kanjara - Bhatta
28. \*[Kalinga]
29. Kepmare or Reddika
30. Mondepatta
31. Nokkar
32. Pariki Muggula
33. Yata
34. Chopemari
35. Kaikadi
36. Joshinandiwalas
37. Odde (Oddilu, Vaddi, Vaddelu), Vaddera, Vaddabhovi, Vadiyaraj, Waddera
38. Mandula
39. Mehtar (Muslim)
40. Kunapuli
41. Patra
42. \*[Kurakula]
43. \*[Pondara]
44. \*[Samanthula /Samantha/ Sountia / Sauntia]
45. Pala-Ekari, Ekila, Vyakula, Ekiri, Nayanivaru, Palegaru, Tolagari, Kavali (area confined to Hyderabad and Rangareddy Districts only)
46. Rajannala, Rajannalu (area confined to Karimnagar, Warangal, Nizamabad and Adilabad Districts only)
47. Bukka Ayyavars
48. Gotrala
49. Kasikapadi / Kasikapudi (area confined to Hyderabad, Rangareddy, Nizamabad, Mahaboobnagar and Adilabad Districts only)
50. Siddula
51. Sikligar/ Saikalgar
52. Poosala (included vide. G.O.Ms.No.16, BCW(C2) Dept., Dt.19.02.2009 by deleting from Sl.No.24 under Group-D)
53. \*[Aasadula / Asadula]
54. \*[Keuta / Kevuto / Keviti]
55. Orphan and Destitute Children who have lost their parents before reaching the age of ten and are destitute; and who have nobody else to take care of them either by law or custom; and also who are admitted into any of the schools or orphanages run by the Government or recognised by the Government.
56. Addapuvuru
57. Bagothula/ Bhagavathula
58. Bail Kammara/ Ghisadi/ Gadiya Lohar
59. Enooti/ Yenativallu
60. Ganjikuti/ Ganjikutivaru
61. Gouda Jeti
62. Kakipadagala
63. Patamvaru/ Masaiahlu
64. Odd/ Od/ Oad
65. Sonnyala/ Sannayila/ Sannayollu
66. Sri Kshatriya Ramajogi/ Ramajogi/ Ramajogula
67. Theracheerala/ Telsoori/ Baikani
68. Tholubommalatavaru/ Boppala

GROUP-B  
(Vocational Groups)

1. \*[Achukatlavandlu]
2. Aryakshatriya, Chittari, Giniyar, Chitrakara, Nakhas
3. Devanga
4. Goud [Ediga, Gouda (Gamalla), Kalalee, Gounda, [\*Settibalija of Visakhapatnam, East Godavari, West Godavari and Krishna districts] and Srisayana (Segidi)]
5. Dudekula, Laddaf, Pinjari or Noorbash
6. Gandla, Telikula, Devathilakula
7. Jandra
8. Kummara or Kulala, Salivahana
9. Karikalabhakthulu, Kaikolan or Kaikala (Sengundam or Sengunther)
10. Karnabhakthulu
11. Kuruba or Kuruma
12. \*[Nagavaddilu]
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perika Balija, Puragiri kshatriya)
16. Nessi or Kurni
17. Padmasali (Sali, Salivan, Pattusali, Senapathulu, Thogata Sali)
18. Srisayana (Segidi) (deleted vide. G.O.Ms.No.63, BCW (M1) Dept., Dt.11.12.1996 and added to Sl.No.4 of Group-B)
19. Swakulasali
20. Thogata, Thogati or Thogataveerakshatriya
21. Viswabrahmin (Ausula, Kamsali, Kammari, Kanchari, Vadla or Vadra or Vadrangi and Silpis), Viswakarma
22. \*[Kunchiti / Vakkaliga / Vakkaligara / Kunchitiga]
23. Lodh/ Lodhi/ Lodha (area confined to Hyderabad, Rangareddy, Khammam and Adilabad Districts only)
24. Bondili
25. Are Marathi, Maratha (Non-Brahmins), Arakalies and Surabhi Natakavallu
26. Neeli (included vide. G.O.Ms.No. 43, BCW (C2) Dept., Dt.07.08.2008 by deleting from Group D at Sl.No.22)
27. Budubunjala / Bhunjwa / Bhadbhunja (area confined to Hyderabad and Rangareddy Districts only)
28. \*[Gudia / Gudiya]

GROUP-C

Scheduled Castes converts to Christianity and their progeny

GROUP-D  
(Other Classes)

1. \*[Agaru]
2. Arekatika, Katika, Are-Suryavamshi
3. \*[Atagara]
4. Bhatraju
5. Chippolu (Mera)
6. \*[Gavara]
7. \*[Godaba]
8. Hatkar
9. \*[Jakkala]
10. Jingar
11. \*[Kandra]
12. Koshti
13. Kachi
14. Surya Balija (Kalavanthula), Ganika
15. Krishnabalija (Dasari, Bukka)
16. \*[Koppulavelamas]
17. Mathura
18. Mali (Bare, Barai, Marar and Tamboli)
19. Mudiraj, Mutrasi, Tenugollu
20. Munnurukapu
21. \*[Nagavasam (Nagavamsa)]
22. Nelli (deleted vide. G.O.Ms.No.43, BCW(C2) Dept., Dt.07.08.2008 and added at Sl.No.26 in Group 'B')



23. \*[Polinati Velamas of Srikakulam and Visakhapatnam districts]
24. Poosala caste (deleted vide. G.O.Ms.No.16, BCW(C2) Dept., Dt.19.02.2009 and included at S.No.52 under Group-A)
25. Passi
26. Rangarez or Bhavasara Kshatriya
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
30. \*[Turupukapus or Gajulakapus]
31. Uppara or Sagara
32. Vanjara (Vanjari)
33. Yadava (Golla)
34. Are, Arevally and Arollu
35. \*[Sadara / Sadaru]
36. \*[Arava]
37. Ayyaraka (area confined to Khammam and Warangal Districts only)
38. Nagaralu (area confined to Hyderabad and Rangareddy Districts only)
39. Aghamudian, Aghamudiar, Agamudivellalar and Agamudimudaliar (including Thuluva Vellalas) (area confined to Hyderabad and Rangareddy Districts only)
40. \*[Beri Vysya / Beri Chetty]
41. \*[Atirasa]
42. Sondi / Sundi
43. Varala
44. Sistakaranam
45. Lakkamarikapu
46. Veerashaiva Lingayat / Lingabalija
47. Kurmi
48. Aheer / Aheer Yadav
49. Govili / Govlii / Gouli / Gavli
50. Kulla Kadagi / Kulle Kadigi / Chittepu
51. Sarollu / Soma Vamsha Kshatriya

#### GROUP-E

(Socially and Educationally Backward Classes of Muslims)  
(Subject to outcome of Civil Appeal No(s).2628-2637/2010 etc., pending before the Hon'ble Supreme Court of India)

- 1 Achchukattalavandlu, Singali, Singamvally, Achchupanivally, Achchukattuvaru, Achukatlavandlu
- 2 Attar Saibulu, Attarollu
- 3 Dhobi Muslim / Muslim Dhobi / Dhobi Musalman, Turka Chakla or Turka Sakala, Turaka Chakali, Tulukka Vannan, Tsakalas, Sakalas or Chakalas, Muslim Rajakas
- 4 Faqir, Fhakhir Budbudki, Ghanti Fhakhir, Ghanta Fhakhir, Turaka Budbudki, Darvesh, Fakeer
- 5 Garadi Muslim, Garadi Saibulu, Pamulavally, Kani-Kattuvally, Garadollu, Garadig
- 6 Gosangi Muslim, Phakeer Sayebulu
- 7 Guddi Eluguvally, Elugu Bantuvally, Musalman Keelu Gurravally
- 8 Hajam, Nai, Nai Muslim, Navid
- 9 Labbi, Labbai, Labbon, Labba
- 10 Pakeerla, Borewale, Deera Phakhir, Bonthala
- 11 Qureshi, 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, Thirugatigantla, Rollaku Kakku Kottevaru, Pattar Phodulu, Chakketakare, Thuraka Kasha

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\* omitted vide G.O Ms.No.3, BCW(OP) Dept., Dated:14.08.2014

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 Board shall be final in all such cases.

**ANNEXURE - V**

List of recognized sports disciplines for Two Percent (2%) reservation in Direct Recruitment in Government Departments / Govt. Institutions as per G.O. Ms. No. 74, Youth Advancement, Tourism & Culture (Sports) Department Dated:09-08-2012

- (1) FOOTBALL
- (2) HOCKEY
- (3) VOLLEYBALL
- (4) HANDBALL
- (5) BASKET BALL
- (6) TENNIS
- (7) TABLE TENNIS
- (8) SHUTTLE BADMINTON
- (9) KABBADI
- (10) ATHLETICS
- (11) SWIMMING
- (12) GYMNASTICS
- (13) WEIGHTLIFTING
- (14) WRESTLING
- (15) BOXING
- (16) CYCLING
- (17) ROWING
- (18) SHOOTING
- (19) FENCING
- (20) ROLLER SKATING
- (21) SAILING / YATCHING
- (22) ARCHERY
- (23) CRICKET
- (24) CHESS
- (25) KHO-KHO
- (26) JUDO
- (27) TEAKWANDO
- (28) SOFTBALL
- (29) BODY BUILDING (Uniform Services like Police, Excise etc).

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