

**TELANGANA RESIDENTIAL EDUCATIONAL INSTITUTIONS RECRUITMENT BOARD
(TREI-RB), HYDERABAD.
NOTIFICATION NO. 01 /2018**

**TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES
(GENERAL RECRUITMENT)**

PARA - I:

- 1) Applications are invited Online from qualified candidates through the proforma application to be made available on Board's WEBSITE (www.treirb.telangana.gov.in) to the post of Trained Graduate Teachers in Residential Educational Institutions Societies
 - i. Submission of ONLINE applications starts from Dt:09.07.2018
 - ii. Last date for submission of ONLINE applications Dt: 08.08.2018.
 - iii. Examination schedule would be displayed in the Board Website.
 - iv. Hall Tickets can be downloaded 07 days before commencement of Examination.
 - v. All the question papers (Paper-I, II & III) except Languages will be supplied in English version only (Paper-I is common for all subjects).
- 2) Paper-I, II & III are Objective type. The Board reserves the right to conduct the Examinations in OFFLINE OMR mode.

IMPORTANT NOTE: Candidates are requested to keep the following documents ready while applying online.

- i. Aadhar number
 - ii. Educational Qualifications details i.e., SSC, INTERMEDIATE, DEGREE, POST GRADUATION etc. and their Roll numbers, Year of passing etc.
 - iii. Community/ Caste Certificate obtained from Mee Seva/ E Seva i.e., Enrollment number and date of issue etc.
 - iv. Other relevant certificates.
- 3) The candidates who possess requisite qualifications may apply online by satisfying themselves about the terms and conditions of this recruitment. The details of vacancies are given below:-

Sl. No.	Name of the Post	Name of the Society	No. of Vacancies	Age as on 01/07/2018 Min. Max.	Scale of Pay Rs.
1	Trained Graduate Teacher	Telangana Residential Educational Institutions Society.	27	18-44	28,940-78,910/-
2	Trained Graduate Teacher	Telangana Social Welfare Residential Educational Institutions Society.	597		28,940-78,910/-
3	Trained Graduate Teacher	Telangana Tribal Welfare Residential Educational Institutions Society.	100		29,760-80,930/-
4	Trained Graduate Teacher	Mahatma Jyotiba Phule Telangana Backward Classes Welfare Residential Educational Institutions Society.	Nil		28,940-78,910/-
5	Trained Graduate Teacher	Telangana Minorities Residential Educational Institutions Society.	236		28,940-78,910/-
TOTAL			960		

(The Details of Vacancies Society wise, Community and Gender wise (General / Women) may be seen at Annexure-I.) (Pages 13 to 22)

IMPORTANT NOTE: The number of vacancies are subject to variation as per intimation being received from the concerned appointing authorities.

4) PRESCRIBED 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	Trained Graduate Teachers in Telangana Residential Educational Institutions Society.	<p>Academic Qualifications:</p> <p>i) B.A/B.Sc/B.Com with at least 50% of marks from a University recognized by the UGC.</p> <p>(In case of SC / ST /BC / Differently abled candidates, the minimum marks shall be 45%)</p> <p style="text-align: center;">AND</p> <p>Pass in Bachelor of Education (B.Ed) course with the subject concerned as a methodology subject from any institution recognized by the NCTE.</p> <p style="text-align: center;">OR</p> <p>ii) 4 years B.A.B.Ed / B.Sc.B.Ed, with atleast 50% marks with the subject concerned as a Methodology from any institution recognized by the NCTE.</p> <p>(In case of SC / ST /BC / Differently abled candidates, the minimum marks shall be 45%)</p> <p style="text-align: center;">OR</p> <p>iii) Graduation with Language concerned as one of the Optional subjects (OR) Bachelor of Oriental Language (or its equivalent) (OR) Graduation in Literature (OR) Post Graduation in Language concerned from a University recognized by the UGC with at least 50% AND Language Pandit Training Certificate / B.Ed. with Language concerned as one of the Methodologies from any Institution recognized by NCTE, in respect of Language Teachers.</p> <p>(In case of SC / ST /BC / Differently abled candidates, the minimum marks shall be 45%)</p> <p style="text-align: center;">AND</p> <p>Pass in Paper II of Telangana State Eligibility Test (TSTET) / Andhra Pradesh Teacher Eligibility Test (APTET)/Central Teacher Eligibility Test (CTET)</p> <p>Note: 20% of weightage will be given to TET Paper-II score and 80% weightage to the written test conducted by TREI-RB. In case of APTET, scores obtained before the appointed day i.e, 02-06-2014 shall only be considered.</p>
2	Trained Graduate Teachers in Telangana Social Welfare Residential Educational Institutions Society.	
3	Trained Graduate Teachers in Telangana Tribal Welfare Residential Educational Institutions Society.	
4	Trained Graduate Teachers in Mahatma Jothiba Phule Telangana Backward Classes Welfare Residential Educational Institutions Society.	
5	Trained Graduate Teachers in Telangana Minorities Residential Educational Institutions Societies	

DETAILED QUALIFICATIONS FOR TRAINED GRADUATE TEACHERS

1. Academic degree of Universities recognized by University Grants Commission (UGC).
2. Teacher Education courses recognized by National Council for Teacher Education (NCTE).
3. 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 candidate.
4. Teacher Eligibility Test (TET): The candidates should have passed paper-II of State TET / Paper-II of CTET. Candidates applying with CTET, Paper-II qualification should have opted with Telugu/Urdu/Hindi as one of the languages in CTET.

Sl. No.	Name of the Post	Subjects
(1)	(2)	(3)
1	Trained Graduate Teacher in Telugu	Must Possess a Bachelor's Degree with Telugu as the main Subject (OR) one of the 3 equal optional subjects (OR) a Bachelor's Degree in Oriental language (BOL) in Telugu (OR) a Post Graduate Degree in Telugu AND B.Ed. with Telugu as a methodology (OR) Telugu Pandit Training from an Institution recognized by NCTE.
2	Trained Graduate Teacher in Sanskrit	Must Possess a Bachelor's Degree or its equivalent with Sanskrit as the main Subject from an Institution recognized by UGC (OR) its equivalent (OR) one of the 3 equal optional subjects (OR) a Bachelor's Degree in Oriental language (BOL) in Sanskrit (OR) a Post Graduate Degree in Sanskrit. AND B.Ed. with Sanskrit as a methodology (OR) Sanskrit Pandit Training from an Institution recognized by NCTE.
4	Trained Graduate Teacher in English	Must Possess a Bachelor's Degree with English as the main Subject (OR) one of the 3 equal optional subjects (OR) a Post Graduate Degree in English from a University recognized by UGC. AND B.Ed. with English as a methodology from an Institution recognized by NCTE.
5	Trained Graduate Teacher in Mathematics	Must Possess a Bachelor's Degree with Mathematics/ Applied Mathematics/Statistics as the main Subject (OR) one of the three equal optional subjects from a University recognized by UGC. AND B.Ed. with Mathematics as a Methodology subject from an Institution recognized by NCTE.
6	Trained Graduate Teacher in Physical Science	Must Possess a Bachelor's Degree with at least two of the following subjects as Optional subjects: Physics/ Applied Physics/Engineering Physics and Instrumentation & Chemistry/ Applied Chemistry/Industrial Chemistry/ Pharmaceutical Chemistry/ Medicinal Chemistry/Bio-Chemistry/Geology (OR) either Physics/Its allied subjects

Sl. No.	Name of the Post	Subjects
(1)	(2)	(3)
		or Chemistry/ its allied subjects as one the main subjects and other as subsidiary/ Ancillary subject from a University recognized by UGC AND B.Ed. with Physical Science /Physics / Chemistry/Science as a methodology subject from an institution recognized by NCTE
7	Trained Graduate Teacher in Biological Science	Must Possess a Bachelor's Degree with Botany and Zoology as optional subjects (OR) one of the two as main and other as subsidiary subject (OR) any two of other allied subjects viz. Public Health/Human Genetics/Genetics/Bio Chemistry/ Environmental Sciences/ Micro-Biology/ Biotechnology/Industrial Micro-Biology/ Agriculture/Food Technology/ Fisheries/ Nutrition/ Geology from a University recognized by UGC AND B.Ed. with Biological Science/Natural Sciences/Science/Botany/Zoology as a Methodology subject from an institution recognized by NCTE
8	Trained Graduate Teacher in Science	Candidates with the qualifications mentioned at Sl.No.06 OR Sl.No.07 i.e., TGT (Physical Science) OR TGT (Biological Science) are eligible
9	Trained Graduate Teacher in Social Studies	1) Must Possess a Bachelor's Degree with any two of the following subjects as optional OR one of them as a main and any other one as a subsidiary subject: (i) Economics (ii) History (iii) Political Science (iv) Sociology (v) Public Administration (vi) Geography (vii) Commerce (viii) Politics (ix) Social Anthropology (x) Ancient Indian History Culture and Archaeology (xi) Anthropology (xii) Social Work (xiii) Philosophy (xiv) Psychology OR 2) B.Com from an institution recognized by UGC. AND B.Ed Degree with Social Studies / Social Sciences /Geography / History/ Politics / Political Science / Economics as a Methodology subject from an institution recognized by NCTE

NOTE:- Subject wise vacancy position is available at ANNEXURE-I (Pages13 to 22), and candidates may apply as per the vacancy position in their concerned subject.

5) **AGE:** Minimum 18 years & Maximum 44* years. The age is reckoned as on 01/07/2018 (Rule- 12(1) (a) (v) of State and Subordinate Service Rules).

***As per G.O. Ms. No. 329, GA(Ser.A) Dept., Dt. 27/07/2015 read with G.O. Ms. No. 264, GA(Ser.A) Dept.,Dated: 26-07-2016, and G.O.Ms.No.190, GA (Ser.A) Dept, dt:08.08.2017, the upper age limit is raised up to 10 years.**

N.B.: 1) No person shall be eligible if he/she is less than 18 years of age.

2) No person shall be eligible if he/she crossed 58 years of age (including all the following Age Relaxations) (Superannuation age).

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.	Retrenched temporary employees in the State Census Department with a minimum service of 6 months.	3 Years
2.	Telangana State Government Employees (Employees of TSRTC, Corporations, Municipalities etc. are not eligible).	5 Years based on the length of regular service.
3.	Ex-Service men	3 years & length of service rendered in the armed forces.
4.	N.C.C.(who have worked as Instructor in N.C.C.)	3 Years & length of service rendered in the N.C.C.
5.	SC/ST and BCs	5 Years
6.	Physically Handicapped persons	10 Years

- 6) **(a) FEE:** (Remittance of Fee) Each applicant must 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 and PH have to pay **Rs.600/- (Rupees Six Hundred Only)** each towards application processing fee and examination fee.

Note: BCs, SCs and STs belonging 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 application processing fee and examination fee will entail total rejection of application.

PARA-II: CENTRES FOR THE WRITTEN EXAMINATION:

- 1) The Examinations will be held at **HYDERABAD (including HMDA Jurisdiction) only or all erstwhile District head quarters**. However, the Board reserves the right either to increase or decrease the number of Centres.
- 2) However, the Board reserves the right to abolish / create new centre or centres for administrative reasons. Request for change of the centre will not be entertained.

PARA-III: HOW TO APPLY:

A) HOW TO UPLOAD THE APPLICATION FORM:

- (i) The Applicants have to read the **User Guide** for Online Submission of Applications and then proceed further.

I STEP: The Candidate has to visit the WEBSITE www.treirb.telangana.gov.in and apply online, candidates have to ensure that there are no mistakes in it. The Board bears no responsibility for the mistakes, if any, made by the candidates.

II STEP:-After entering the details in the Portal, the applicant will proceed to payment gateway.

III STEP:-The applicant should 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.

IV STEP:-After payment of fee & after filling the entire application form, 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) Hand written/ Typed/ Photostat copies/ outside printed Application Form will not be accepted and liable for rejection.
- ii) For any Technical problems related to Online submission and downloading of Hall-Tickets please contact 7032619292 (Call Time: 10.30 A.M to 1.00 P.M & 1.30 P.M to 5.30 P.M) or mail to helpline.treirb@gmail.com.
- iii) For any General Queries please contact office of the TREI-RB Phone No.040-23317140 or 040-23317130 (Call Time: 10.30 A.M to 1.00 P.M & 1.30 P.M to 5.30 P.M) or mail to helpdesk-treirb@telangana.gov.in.

NOTE:

1. The Board is not responsible, for any discrepancy in Bio-data particulars while submitting the application form through Online. The applicants are therefore, advised to strictly follow the instructions and User guide in their own interest before submitting the application.
2. The particulars furnished by the applicant in the Application Form will be taken as final, and data is processed, based on these particulars only by Computer. Candidates should, therefore, be very careful in Uploading / Submitting the Application Form Online.
3. Incomplete/incorrect application form will be summarily rejected. The information if any furnished by the candidate subsequently in any form will not be entertained by the Board under any circumstances. Applicants should be careful in filling-up the application form and submission. If any lapse is detected during the scrutiny, the candidature will be rejected even though he/she comes through the final stage of recruitment process or even at a later stage.
4. Before Uploading/Submission of Application Form, the Candidates should carefully ensure his/her eligibility for this examination. No relevant column of the application form should be left blank, otherwise application form will not be accepted.

PARA- IV GENERAL PROVISIONS:

1. Applicant must 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 received online in the prescribed proforma available in the website within 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 J.P.G format.
4. The applicants should not furnish any particulars that are false, tampered, fabricated or suppress any material / information while submitting an application through 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 applicants should be willing to serve anywhere in Telangana State.
8. This Recruitment is entrusted to TREI-RB by the Government of Telangana along with Finance Clearance vide G.O. Ms. No. 49, Finance (HRM.II) Department, Dt:01.05.2018, G.O. Ms. No. 57 Finance (HRM.II) Department, Dt:18.05.2018, G.O. Ms. No.66, Finance (HRM.II) Department, Dt:30.05.2018, G.O.Ms.No.79, Finance (HRM.III) Dept:15.06.2018 and G.O.Ms.No.84, Finance (HRM.II) Dept:25.06.2018.

The following certificates must be kept ready by the candidates for the purpose of verification and also at the time of making online application.

- i). Aadhar card.
- ii). Proof of Educational Qualifications.
- iii). Date of Birth Certificate / S.S.C.
- iv). School Study Certificate.
- v). No Objection Certificate from Employer (if anywhere employed)
- vi). Local Scheduled Area Certificate (ST Candidates hailing from Agency Area) **wherever applicable.**
- vii). Pass certificate in TET Paper-II of TS TET/AP TET (up to 02.06.2014)/CTET.
- viii). Other certificates if any.

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

- i). Community Certificate.
- ii). Non-Creamy Layer Certificate as per Form- VIIB / Creamy Layer Certificate as per Form- VIIC.
- iii). Certificate of Residence / Nativity (where the Candidates not studied in School / Private Study).
- iv). Local Agency area certificate.

The following Certificates (whichever is applicable) should be obtained from Competent Medical authority for the purpose of verification.

- i) a) Medical Certificate for the Blind.
b) Certificate of Hearing Disability and Hearing Assessment.
c) Medical Certificate in respect of Orthopaedically Handicapped Candidates.

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. **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.
3. **Government Orders:-** The TREI-RB is empowered for taking up recruitment for Teaching and 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 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 read 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 friend 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.

4. **Zonal/Local**:- The Zonal and Local Reservations shall be followed as per the Para -8 of A.P. Public Employment (Organization of Local Cadres and Regulation of Direct Recruitment) Order, 1975 (G.O.P. No. 674, G.A. (SPF-A) Dept., Dated: 20/10/1975) read with G.O. Ms. No. 124, General Administration (SPF-A) Department, dated: 07/03/2002 and other orders issued by the Government and within the meaning of Sections 3 and 97 of A.P. State Reorganization Act 06/2014.
5. **Employed**:- 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 the 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.
6. **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.
7. **Caste & Community**: 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 should be submitted at appropriate time in respect of SC & ST Candidates. In respect of candidates belonging to Backward Classes are required to produce Community Certificate (BC-A, BC-B, BC-C, BC-D& BC-E) from Competent Authority i.e., from Tahsildars in the State of Telangana not below the rank of Deputy Tahsildar through E-seva/ Mee-seva (G.O. Ms. No. 16 BCW(OP) Dept., Dt. 11/03/2015) and orders and instructions issued by the Government from time to time. As per General Rules for State and Subordinate Service Rules, **Rule -2(29)** Explanation: No person who professes a religion different from Hinduism, the Sikhism or Buddhism shall be deemed a member of Schedule Caste.
8. **Reservation**:- i)The Reservation and eligibility in terms of General Rule 22 & 22 (A) of State and Subordinate Service Rules are applicable.
 - 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 Disabled persons is subject to their eligibility to any of the above category of posts and shall be subject to Telangana State and Subordinate Service Rules governing the posts. The required extent of deformity and the genuineness of the Medical Certificate and in the case of ambiguity or doubt, the same shall be referred to the Appellate Medical Boards as per the instructions of the Government.
 - iv) he 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:
 - v) 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.

- vi) 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.
9. As per G.O.Ms.No.3 Social Welfare (TW.EDN.II) Dept. Dt.10.01.2000 the appointment of posts of teachers in schools situated in the Scheduled Areas in the State subject to the modification that all the posts of teachers in the schools situated in Scheduled Areas in the State of Telangana shall be filled in by the local S.T candidates only out of whom 33 1/3 % shall be women (**wherever applicable**).

Explanation:- “The Local Scheduled Tribe Candidate” means, the candidate belonging to the Scheduled Tribes notified as such under article 342 of the Constitution of India and the candidates themselves or their parents have been continuously residing in the scheduled areas of the Districts of Telangana State in which they are residents till to date since the 26th January, 1950.

10. **Distance Education:-** The Candidates who have obtained Degrees through Open Universities / Distance Education mode are required to have recognition by the University Grants Commission/ AICTE / Distance Education Council as the case may be. Unless such Degrees had been recognised 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 recognised rests with the Candidate.

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 on the date of notification. The candidates claiming reservation as Local candidates should obtain the required Study certificates (from IV Class to X Class or SSC) (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:-

In terms of Para-(7) of A.P. Public Employment (Organization of Local Cadres and Regulation of Direct Recruitment) Order, 1975 (G.O.P. No. 674, G.A. (SPF-A) Dept., Dated: 20/10/1975). "LOCAL CANDIDATE" means a candidate for direct recruitment to any post in relation to those Local area where he/she has studied in Educational Institution(s) for not less than four consecutive academic years prior to and including the year in which he/she appeared for S.S.C or its equivalent examination. If however, he/she has not studied in any educational institution and obtained SSC or its equivalent qualification from Open School or Private Study basis, he/she has to produce residential certificate issued by the Tahsildar.

- i) In case any Candidate who does not fall within the scope of above then, if he/she has studied for a period of not less than seven years prior to and inclusive of the year in which he/she has studied SSC or its equivalent qualification, he/she will be regarded as local candidate on the basis of the maximum period out of the said period of seven years and where the period of his/her study in two or more local areas or equal such local area where he/she has studied last in such equal periods will be taken for determining the local candidature. Similarly, if he/she has not studied during the above said period in any Educational Institution(s) and obtained private study the place of residence during the above period will be taken into consideration and local candidature will be determined with reference to the maximum period of residence or in the case of equal period where he/she has resided last in such equal periods.
- ii) If the claim for local candidature is based on study, the candidate is required to produce a certificate from the Educational Institution(s) where he/she has studied during the said 4/7-year period. If, however, it is based on residence, a certificate should be obtained from an officer of the Revenue Department not below the rank of Tahsildar or Deputy Tahsildar in independent charge of Mandal.

- iii) If, however, a candidate has resided in more than one Mandal during the relevant four/seven years period but within the same District or Zone as the case may be separate certificates from the Tahsildar exercising jurisdiction have to be obtained in respect of different areas.

NOTE:

- (A) Residence Certificate will not be accepted, if a candidate has studied in any educational institution upto S.S.C. or equivalent examination, such candidates have to produce study certificates invariably. The candidates, who acquired Degree from Open Universities without studying SSC / Matriculation or equivalent in Educational Institutions, have to submit Residence Certificate only. Educational institutions means a recognized institution by the Government / University / Competent Authority.
- (B) Each of the following Zones comprises the Districts mentioned against each Zone.

The following are the Present Zones in the Telangana State:

- V. Erstwhile districts of Adilabad, Karimnagar, Warangal and Khammam. (ADB, KRMN, WGL, KMM).
- VI. Erstwhile districts of Hyderabad, Ranga Reddy, Nizamabad, Mahaboobnagar, Medak and Nalgonda. (HYD, RRD, NZB, MBNR, MDK, NLG).

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

PARA-VIII: 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.

1. The applicants will be subjected to written examination of Paper-I, Paper-II & Paper-III of Objective Type and the final selection will be made based on the total marks secured in all the (03) papers in the respective categories duly following the Rule of reservation.
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 (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 will be counted for preparation of 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 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 as per rules is compulsory. Absence in any paper/ papers 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 appointment of selected 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-IX: 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 would 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) **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.

PARA-X:- Please read the following Annexures appended to the Notification before filling the application form.

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

PARA XI: SPECIAL INSTRUCTIONS TO CANDIDATES:

Candidates are directed to follow the TREI-RB's Website (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-IV.

PARA-XII: 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 arising during the course of this process, or as deemed necessary by the Board at any stage.

HYDERABAD
DATE: 30.06.2018.

Sd/- R.S.Praveen Kumar, I.P.S.
Chairman - TREI-RB, Hyd.

ANNEXURE - I (Pages 13 to 22)

(GENERAL RECRUITMENT)

BREAK UP OF VACANCY POSITION FOR THE POST OF TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES**GENERAL (BOYS) INSTITUTIONS**

Society	Subject	Zone	OC		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH-VH		HH		OH		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)	
TREIS	English	Zone (V)	1							1																		1	1	2
		Zone (VI)																												
	Mathematics	Zone (V)		1																								0	1	1
		Zone (VI)		1																								0	1	1
	Science	Zone (V)		1		1																						0	2	2
		Zone (VI)	2			1					1																	2	2	4
	Social Studies	Zone (V)																												
		Zone (VI)	1			1																						1	1	2
Total			4	3		3				2																	4	8	12	

**ANNEXURE - I
(GENERAL RECRUITMENT)**

BREAK UP OF VACANCY POSITION FOR THE POST OF TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES (WOMEN)

GIRLS INSTITUTIONS

Society	Subject	Zone	OC(W)	SC(W)	ST(W)	BC-A(W)	BC-B(W)	BC-C(W)	BC-D(W)	BC-E(W)	VH(W)	HH(W)	OH(W)	Ex. Ser(W)	Total	
TREIS	Sanskrit	Zone (V)														
		Zone (VI)	2	1	1						1				5	
	English	Zone (V)										1				1
		Zone (VI)														
	Mathematics	Zone (V)	1													1
		Zone (VI)														
	Science	Zone (V)														
		Zone (VI)	2	1												3
	Social studies	Zone (V)	2	1												3
		Zone (VI)	1	1												2
	Total			8	4	1						2				15

ANNEXURE - I
(GENERAL RECRUITMENT)
BREAK UP OF VACANCY POSITION FOR THE POST OF TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES
GENERAL (BOYS) INSTITUTIONS

Society	Subject	Zone	OC		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH-VH		HH		OH		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	Telugu	Zone (V)	1	1		1	1				1																3	2	5	
		Zone (VI)														1											1	0	1	
	English	Zone (V)	13	7	4	2	1	1	2	1	2	1			3	1	2				1		1			1	29	14	43	
		Zone (VI)	16	9	6	2	2	1	3		4	3			3	1	2						1				37	16	53	
	Mathematics	Zone (V)	11	6	3	1	2	1	2	1	2	1			2		1					1		1		1	25	11	36	
		Zone (VI)	21	12	7	3	3	1	3	1	5	3			5	1	3						1			1	48	22	70	
	Physical Science	Zone (V)		1		1																					0	2	2	
		Zone (VI)													1												1	0	1	
	Biological Science	Zone (V)	5	3	1		1		1		1				2							1				1	12	4	16	
		Zone (VI)	4	3	1			1	1		1	1												1			8	5	13	
	Social Studies	Zone (V)	6	4	2		2		1		2				2		1					1				1	17	5	22	
		Zone (VI)	7	3	2	1			1	1		1			2		1							1			14	6	20	
	Total			84	49	26	11	12	5	14	4	18	10	0	0	20	3	11	0	0	0	4	0	6	0	0	5	195	87	282

**ANNEXURE - I
(GENERAL RECRUITMENT)**

BREAK UP OF VACANCY POSITION FOR THE POST OF TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES (WOMEN)

GIRLS INSTITUTIONS

Society	Subject	Zone	OC(W)	SC(W)	ST(W)	BC-A(W)	BC-B(W)	BC-C(W)	BC-D(W)	BC-E(W)	VH(W)	HH(W)	OH(W)	Ex. Ser(W)	Total	
TSWREIS	Telugu	Zone (V)	1			1									2	
		Zone (VI)	1	1											2	
	English	Zone (V)	22	7	3	3	6	1	3	2	1			1	49	
		Zone (VI)	27	10	4	4	7	1	3	2	1	1		1	61	
	Mathematics	Zone (V)	18	7	3	2	6		2	1	1				40	
		Zone (VI)	39	13	4	6	8	1	7	4	1	1	1	2	87	
	Physical Science	Zone (V)													0	
		Zone (VI)	1												1	
	Biological Science	Zone (V)	8	2	1	1	1		2					1	16	
		Zone (VI)	8	3	2	1	2		1						17	
	Social studies	Zone (V)	8	2	1	2	1							1	15	
		Zone (VI)	11	4	2	2	3		2	1					25	
	Total			144	49	20	22	34	3	20	10	4	2	3	4	315

ANNEXURE - I
(GENERAL RECRUITMENT)
BREAK UP OF VACANCY POSITION FOR THE POST OF TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES
NON-AGENCY GENERAL (BOYS) INSTITUTIONS

Society	Subject	Zone	OC		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH-VH		HH		OH		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)	
TGT - TTWREIS (Non-Agency-General)	English	Zone (V)		1	1										1													1	2	3
		Zone (VI)	4	3	1		2		1		2								1									11	3	14
	Social Studies	Zone (V)							1						1		1											1	2	3
		Zone (VI)	4	3	1		2		1		2								1									11	3	14
Total			8	7	3		4		3		4				2		1				2						24	10	34	

**ANNEXURE - I
(GENERAL RECRUITMENT)**

BREAK UP OF VACANCY POSITION FOR THE POST OF TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES (WOMEN)

NON-AGENCY (GIRLS) INSTITUTIONS

Society	Subject	Zone	OC(W)	SC(W)	ST(W)	BC-A(W)	BC-B(W)	BC-C(W)	BC-D(W)	BC-E(W)	VH(W)	HH(W)	OH(W)	Ex. Ser(W)	Total	
TGT - TTWREIS (Non-Agency-Women)	English	Zone (V)	6	3	1	1	1		1	1					14	
		Zone (VI)	8	1	2	1	2					1		1	16	
	Social studies	Zone (V)	5	3	1	2	1			1	1					14
		Zone (VI)	8	1	2	1	2						1		1	16
Total			27	8	6	5	6		2	2		2		2	60	

ANNEXURE - I
(GENERAL RECRUITMENT)
BREAK UP OF VACANCY POSITION FOR THE POST OF TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES
AGENCY GENERAL (BOYS) INSTITUTIONS

Society	Subject	Zone	OC		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH-VH		HH		OH		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	
TGT - TTWREIS (Agency-General)	English	Zone (V)					1																				1	0	1
		Zone (VI)																											
	Social Studies	Zone (V)					1 (Ex.Ser)																				1	0	1
		Zone (VI)																											
Total							2																			2	0	2	

ANNEXURE - I
(GENERAL RECRUITMENT)
BREAK UP OF VACANCY POSITION FOR THE POST OF TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES
GENERAL (BOYS) INSTITUTIONS

Society	Subject	Zone	OC		SC		ST		BC-A		BC-B		BC-C		BC-D		BC-E		PH-VH		HH		OH		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		
TMREIS	Mathe matics	Zone (V)	7	3	1	1	1			1	1	1			2		1									1	13	7	20	
		Zone (VI)	11	6	4	2	2			2	1	3	2			2		1		1								26	11	37
	Social	Zone (V)	5	4	2	1	2			2		1				1		1			1							13	7	20
		Zone (VI)	11	6	3	2		1	2	1	2	1				3	1	2						1		1	24	13	37	
	Total		34	19	10	6	5	1	6	3	7	4	0	0	7	2	4	1	1	0	1	0	1	0	0	2	76	38	114	

**ANNEXURE - I
(GENERAL RECRUITMENT)**

BREAK UP OF VACANCY POSITION FOR THE POST OF TRAINED GRADUATE TEACHERS IN RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETIES (WOMEN)
GIRLS INSTITUTIONS

Society	Subject	Zone	OC(W)	SC(W)	ST(W)	BC-A(W)	BC-B(W)	BC-C(W)	BC-D(W)	BC-E(W)	VH(W)	HH(W)	OH(W)	Ex. Ser (W)	Total
TMREIS	Mathematics	Zone (V)	8	2	1	1	2		2	1				1	18
		Zone (VI)	19	7	3	3	6		2	2	1				43
	Social	Zone (V)	7	3	1	2	1	1	1	1				1	18
		Zone (VI)	20	6	3	3	4		3	1		1	1	1	43
Total			54	18	8	9	13	1	8	5	1	1	1	3	122

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 Trained Graduate Teacher in
Residential Educational Institutions Societies as per
G.O.Ms.No.31 SCD (RS) Dept, dt:08.06.2018.**

Scheme of Examination

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	Subject Discipline Knowledge/ Concerned Subject	100	120	100
		Total		300

Written Examination Syllabus for the post of Trained Graduate Teacher 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.

Syllabus for the post of Trained Graduate Teacher 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, పూహాలు (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 - పూహాలు, 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 చట్టాలు (పాఠశాల స్థాయి).

Paper -III: తెలుగు భాషా సాహిత్యాలు
(Telugu Language & Literature)

విషయ ప్రణాళిక

1. కవులు, రచయితలు, రచనలు: బిరుదులు - పురస్కారాలు: ఇతివృత్తాలు, సందర్భ నేపథ్యాలు - పాత్రలు, విశేషాంశాలు
2. సాహిత్య ప్రక్రియలు - నిర్వచనాలు - లక్షణాలు
A. పద్య ప్రక్రియలు :- ఇతివోసం - పురాణం - ప్రబంధం, కావ్యం (ఖండకావ్యం) శతకం - గేయం - ఆశువు (అవధానం) మొదలైనవి
B. రూపక ప్రక్రియలు- నాటకం /నాటిక, యక్షగానం, బుర్రకథ %--% సంభాషణ, మొదలైనవి
3. సాహిత్య ప్రక్రియలు - నిర్వచనాలు - లక్షణాలు, వచన (గద్య) ప్రక్రియలు -కథ /కథానిక/ గల్పిక, నవల /నవలిక, లేఖ, వ్యాసం, జీవితచరిత్ర, ఆత్మకథ (స్వీయచరిత్ర), యాత్రాచరిత్ర,పీఠిక - విమర్శ - సమీక్ష- వచన కవిత - నిబద్ధ కవిత (ఉదా:నానీలు, గజకృష్ణ - రుణాయిలు)అనిబద్ధ వచన కవిత సంపాదకీయం, వార్త, వ్యాఖ్య, మొదలైనవి.
4. ఆధునిక సాహిత్యం - ధోరణులు - ఉద్యమాలు: భావ కవిత్వం, అభ్యుదయ కవిత్వం, విప్లవ కవిత్వం, దిగంబర కవిత్వం, స్త్రీవాద కవిత్వం, మైనారిటీ వాద కవిత్వం అనుభూతివాద కవిత్వం, జాతీయోద్యమ కవిత్వం, ఆంధ్రోద్యమ కవిత్వం, తెలంగాణ ఉద్యమ కవిత్వం.
5. తెలుగు భాషా సాహిత్యాలపై ఇతర భాషల ప్రభావం
అ). సంస్కృతం, ఆంగ్లం - ఉర్దూ - పారశీకం మొదలైనవి
ఆ). భాషా శాస్త్రం ఆవిర్భావ వికాసాలు మౌఖిక భావనలు
6. భాషా రూపాలు :
శాసన భాష, గ్రాంథికభాష, వ్యవహారిక భాష, మాండలిక భాష, ప్రామాణిక భాష, ప్రసారమాధ్యమాల భాష, వైయక్తిక భాష , ఇంటి (కుటుంబ) భాష, పరిసరాల భాష, భాషా వినియోగ సందర్భాలు, భాషా ప్రాధాన్యత, తెలుగు భాషా ప్రాచీనత, భాషా పరి రక్షణ, అభివృద్ధి చర్యలు, భాషా పరి రక్షణ , అభివృద్ధి సంస్థలు.
7. భాషాంశాలు భాషోచ్చారణ, ధ్వని, ధ్వన్యత్పత్తి స్థానాలు, అక్షరం, లిపి, లిపిపరిణామం: పదం, ప్రాతిపదిక, ప్రత్యయం: అర్థం - అర్థ విపరిణామం, తత్పమం, తద్భవం, దేశ్యం, గ్రామ్యం -అన్యదేశ్యం నానార్థాలు, పర్యాయ పదాలు, వ్యుత్పత్త్యర్థాలు, ప్రకృతి, వికృతులు, వాక్యం వాక్యభేదాలు- తెలుగు వాక్యం ప్రత్యేకతలు, సంధులు, సమాసాలు, ఛందస్సు అలంకారాలు, వ్యాకరణ పరిభాష.
8. జానపద సాహిత్యం
9. పఠానాపగాహనం (గద్యం)
10. పఠానాపగాహనం (పద్యం)

Syllabus for the post of Trained Graduate Teacher 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.

Paper -III: English Language & Literature

Part-A

I. Reading Comprehension of unseen passage.

II. Grammar and Vocabulary.

1) Parts of Speech; 2) Subject and predicate; 3) Types of sentences - Transformations; 4) Conjunctions (Linkers; connectors; cohesive devices) ; 5) Verbs (Regular and Irregular) and modals; 6) Tense and Time; 7) Prepositions; 8) Adverbs - types and their order in sentences; 9) Adjectives including Degrees of Comparison and also Quantifiers; 10) Articles - Determiners. 11) Clauses; (Noun Clauses - Adjective clauses; adverbial clauses); 12) Voice; 13) Direct and Indirect Speech; 14) Infinitives; gerunds; participles ; 15) Phrasal verbs ; Idioms ; prepositional phrases ; (Noun phrases; verb phrases; adverbial phrases); 16) Forming Questions and Question Tags.; 17) Correction of Sentences.; 18) Figures of Speech; 19) Antonyms; 20) Synonyms; 21) Homophones; 22) Homonyms ; 23) Affixation; 24) Spelling; 25) Vocabulary in context; 26) Proverbs ; 27) One word substitutes; 28) Composition: Paragraph, essay, expansion, précis, Letter writing, message, notice, article and report writing.

III. Aspects of pronunciation:

1. Vowel and consonant Sounds and phonemes
2. Stress: word and sentence stress.
3. Intonation: Four basic patterns of intonation.

IV. Punctuation.

PART-B

Literature:

I) Comprehension of

- 1) Literary prose passage and
- 2) A poem

II) Study of Literary forms:

- 1) Poetry: Sonnet, ode, elegy, Ballad, Lyric, Dramatic Monologue
- 2) Prose:
 - a) Drama (Structure, Characters, dialogues, Soliloquy, tragedy, comedy, Tragi-comedy)
 - b) Fiction: - (point of view, setting atmosphere; style; Technique of Narration.)
 - c) Essay Detailed study of English Literature from 1798 to 1900 with special reference to Wordsworth, S.T. Coleridge, John Keats, Shelly, Lord Byron, Charles Lamb, Charles Dickens, William Hazlitt, Alfred Lord Tennyson, Robert Browning, Mathew Arnold, George Eliot, Thomas Carlyle and John Ruskin.

III. Poetry

Name of the Poet	Title
Sarojini Naidu	In The Bazaars of Hyderabad
Rw Emerson	A Nation's Strength
RL.Stevenson	My Shadow
Alfred Tennyson	Home They Brought Her Warrior Dead
Elizabeth Barrett Browning	The Cry of Children
Rabindranath Tagore	My Mother; Freedom.
C A Bowels	The River
Gabriel Okara	Once Upon A Time
Medora Chevalier	Or Will The Dreamer Awake?

Name of the Poet	Title
Dr. SurayaNasim	Abandoned
Khalil Gibran	On Friendship
Shiv K.Kumar	Mother's Day
William Wordsworth	Anecdote For Fathers
Edwar Lear	The Duck And The Kangaroo
Harry Behn	Trees
Lily Usher	Grabbing Everything On The Land
HarindranathChatopadhyaya	The Earthen Goblet
Don Marquis	A Spider And A Fly

Prose

Name of the Essayist/ Writer/Novelist	Title
APJ Kalam	Wings Of Fire
RK.Narayan	Swami And Friends
Charles Dickens	Oliver Twist
Jonathan Swift	Gulliver Travels
Sudha Murthy	1. Gender Bias 2. How I Taught My Grandmother ToRead And Other Stories
Isaac Asimov	Robots And People
O.Henry	After Twenty Years
R.K. Laxman	The Gold Frame
E.V.Lucas	The Face On The Wall
Oscar Wilde	The Nightingale And The Rose
Satyajit Ray	BepinChoudhury's Lapse of Memory
A.G. Gardiner	On Umbrella Morals
Stephen Leacock	How To Live To Be 200
George Orwell	Animal Farm

Drama / Play

Name of the Writer	Title
J.B. Priestley	Mother's Day
William Stanley Houghton	The Dear Departed
Cedric Mount	The Never Never Nest
Fritz Karinthy	The Refund
G.B.Shaw	Saint Joan
Shakespeare	Julius Caesar

The Candidates are expected to have a thorough knowledge of the above mentioned poets, essayists, novelists and dramatists and their respective works mentioned at the level that is expected of a student of literature.

**Paper -II: संस्कृतम् – भाषाबोधनशास्त्रम्
(Pedagogy of Sanskrit Language)**

1. संस्कृतभाषायाः स्वरूपस्वभावाः—ऐतिहासिकविकासः- संस्कृते वैदिक-लौकिकभाषयोः भेदः - मातृभाषा-माध्यमभाषा-प्रथमभाषा-द्वितीयभाषा-तृतीयभाषात्वेन गृहभाषा-राज्यभाषा-राष्ट्रभाषात्वेन च संस्कृतम् , संविधाने संस्कृतभाषायाः प्राधान्यम् , शिक्षाक्षेत्रात् भिन्नक्षेत्रेषु संस्कृतम्, पाठशाला-पाठ्यक्रमे भाषाणां प्राधान्यम्-संस्कृतस्य पाठ्यम्, गर्जनात्मक-कवीनां संस्कृतं प्रति योगदानम्
2. संस्कृतभाषायाः बोधनस्य अभ्यसनस्य च उद्देश्यानि लक्ष्यानि मौल्यानि भाषा-कौशलानि च
3. संस्कृतभाषायाः बोधन-अभ्यसनयोः मनोवैज्ञानिकता - बालानां प्रगतिः - भाषामम्पादने सिद्धान्ताः भाषायां चिन्तनम् - गर्जनशीलता च
4. भाषा-विद्या-योजना(प्रणालिका)- निर्माणम् -निर्वहणम् - विकासः
5. भाषानैपुण्यानि बोधनानैपुण्यानि--भाषा-कक्ष्यायां प्रभावयुतबोधनाय अभ्यसन-पद्धतीनां विभिन्नयोजनाः-निर्वहणम् , अभ्यसनानुभवानां रचना च
6. पाठशालास्तरे पद्य-गद्य-कथा-रूपक(नाटक)-काव्यादीनां प्रक्रियाणां पाठने भाषाबोधनपद्धतयः
7. संस्कृतभाषायाः बोधनाभ्यसनयोः संसाधनानि, बोधनासामाग्री-निर्माणम् , भाषाप्रयोगशाला, पाठ्योपकरणानि , भाषाध्ययने संसाधनत्वेन पाठ्यपुस्तकानि , भाषायाः बोधना-अभ्यसनयोः सङ्गणक-तन्त्रज्ञानविनियोगः च
8. भाषायाः प्रमाणानि (मौल्यमापनम्) मूल्याङ्कनम् च , निरन्तर-समग्र-मूल्याङ्कनम् , मूल्याङ्कनस्य साधनानि व्याह्राः(कौशलानि) च , लक्ष्यसाधना-सोपनिर्धारणनिकायाः
9. भाषाभ्यासे क्लेशाः - अभ्यसने विभिन्नकारणैः(वैकल्यादि)अममर्थच्छात्राणां भाषाभ्यासकरणस्य प्रक्रियाणाम् अध्ययनम्
10. नित्यजीवने संस्कृतभाषायाः उपयोगः - संस्कृतभाषाविकासे समस्याः - विविधभाषाविधानानि (त्रिभाषामूत्रम्...) - संस्कृतसंवर्धनाय विविध-आयोगाः(कमिपन्स) - पाठशालास्तरे संस्कृतस्य विक्रामाय राज्यस्तरीय रष्ट्रिय विद्यायोजना चट्टाणि

Paper-III: Sanskrit

1. वैदिक साहित्यस्य परिचयः – संहिताः – ब्राह्मणानि- आरण्यकानि – उपनिषदः – वेदाङ्गाः च ।
2. रामायणमहाभारतयोः रचनाकालः –साहित्यिक शासकीय परिस्थितयः – आन्तरिक-संस्कृतसाहित्ये तयोः प्रभावः
3. भास-कालिदास-भारवि-श्रीहर्ष-भवभूति-हर्षवर्धन-विशाखदत्त-भट्टनारायण-दाण्डि-बाणभद्र-शूद्रकादीनां कवीनां तेषां काव्यानां च परिचयः
4. संस्कृतसाहित्येतिहासः-महाकाव्य-लघुकाव्य-चारिभ्रमककाव्य-गीतकाव्य-चम्पूकाव्य-गद्य-रूपक-कथाकाव्यादीनाम् उत्पत्तिः विकासः परिचयः
5. अलङ्काराणां लक्षणानि –उदाहरणानि च । रूपक-उत्प्रेक्ष-अतिशयोक्ति-सन्देह-भ्रान्तिमान् –समासोक्ति-अप्रस्तुतप्रशंसा-दीपक-तुल्ययोगिता-अर्थान्तरन्यास-दृष्टान्त-काव्यलिङ्ग-अनन्तय-स्वभावोक्ति-अलङ्काराः
6. व्याकरणम् –
 - अ) शब्दाः-अजन्त-हलन्त-सर्वनामशब्दाः त्रिषुलिङ्गेषु
 - आ) धातवः(लकाराः)-लट्-लिट्-लृट्-लोट्-लङ्-विधिलिङ् (परस्मैपदि-आत्मनेपदिषु)
 - इ) पदानां प्रातिपदिकम्-लिङ्गज्ञानं-अर्थः-व्युत्पत्तिः-विवरणम्-तिरुद्धपदानि-समानार्थकपदानि-पर्यायपदानि-नानार्थाः
 - ई) वाक्यानां निर्माणम् – क्रमलेखनम् –पदानाम् आधारेण स्वीयवाक्यलेखनम् – वाक्यशुद्धीकरणम् – वाक्यानुवादः – वाक्यपरिवर्तनम् – कालपरिवर्तनम् – वचनपरिवर्तनम् – विशेषणविशेष्यौ च ।
 - उ) उपसर्गाः – धातूनां प्रकृति प्रत्यय चिन्तनम्
 - ऊ) कारकाणि तेषां नियमाः
 - ऋ) प्रत्ययाः
 - ॠ) प्रयोगपरिवर्तनम् (वाच्यपरिवर्तनम्)
 - ॡ) अपरिचित-पद्य-गद्ययोः अन्वयसामर्थ्यम्
7. सन्धिः – अच् सन्धयः, हल् सन्धयः, विसर्गसन्धिः
8. समासाः – अव्ययीभाव-तत्पुरुष-द्वन्द्व-बहुव्रीहि-समासाः (अन्तर्गतप्रभेदैः सह)
9. छन्दः – वृत्तानि –वंशस्थम् – इन्द्रवज्रा – उपेन्द्रवज्रा – भुजङ्गप्रयातम् – मन्दाक्रान्ता –शिखरिणी-शार्दूलविक्रीडिताम् – सन्धस – वसन्ततिलकम् – अनुष्टुप् ।
10. भाषाशास्त्रम् – भाषायाः उत्पत्तिः -धन्युत्पत्तिः -एतन्व्युत्पातिस्थानम्- भाषाणां वर्गीकरणं – इण्डोयूरोपियन् वर्गः –सतम् काण्टम् वर्गो –एतन्नितिपरिणामः-अर्थतिपरिणामः-तेषां कारणानि

Syllabus for the post of Trained Graduate Teacher 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.

Paper-III: Mathematics

1. Number System-I: Counting of Numbers; Fundamental Operations; Types of Numbers; Real Numbers; Mathematical Units and Conversions; Utility of Euclid division lemma, Problems on surds; Divisibility rules their possible remainders, Pythagorean triplets; Using alphabet in place of digit in divisibility rules, missing numbers; Prime and composite, even and odd numbers, need and applications of fundamental theorem of arithmetic, difference between factors and multiples and prime factors-LCM and HCF; Characteristics and importance in finding solutions to daily life situations (e.g.p).
2. Number System-II: Patterns of numbers; Progressions- A.P. and G.P- relating to daily life situations; Building the relation between numbers and graphical representations; Squares - Square root, Cube-Cube root; Ratio, Golden Ratio, Compound Ratio, Inverse Ratio, Addition and Subtraction of equal Ratios; Proportion - Direct and inverse; Fractions (Numerator and denominator); Applications on the above.
3. Percentages in daily life situations and SETS :Profit and loss, Discount ; Simple interest and Compound interest, VAT and their applications ; Sets-Concept in building a set and rationale; types of sets; Operations on sets Venn Diagrams and related daily life problems.
Sets- Compliment, properties on operations and cardinalitySeries; Complex numbers and its fundamental operations; Conjugates;Fundamental principle of counting (Linear and Circular) Combinations and related to daily life problems.Modulus of a Real Number and absolute value.Types of statements and proofs, quantifiers; Tautology and contradictions.
4. Fundamentals of Algebra; Linear expressions and equations in one & two variables Pairs linear equations in two variables; Basic Operations on Algebraic expressions -Laws and properties of exponents; Factorization; Special products; Operations on Polynomials and Factorization; Quadratic expressions and equations. Logarithms and their use.
Graphical Representations /Mathematical Induction/ Quadratic Expressions/ Linear Programming / Determinants/ Matrices :Relation between two variables and there graphical representation, basic ideas related to function and respective theorems, types of functions ; Mathematical induction, problems on divisibility using principle of Mathematical Induction; Quadratic expressions - change in sign, maxima and minima values; Basis concepts of linear programming problems; Binomial theorem and approximations. Order of Matrix; Properties of Determinants of Matrices and solving of equations.
5. Geometry: Fundamental concepts; Contextual situations, basic ideas like point , line, ray, lines segment, angle, plane , curve, circle etc., and related terminology; Relations between lines and angles; Lines of a plane and their properties; Axioms , postulates, Euclid axioms, historical back ground, non-Euclidean geometry; Types and Properties of Geometrical figures; Types and Properties of triangle, quadrilateral, Polygon etc.,; Properties of Circle and Parts of Circles; Comparison of Geometrical figures - Congruency, Similarity etc.,; BPT, Pythagoras, Theorems applications; Relations between Circles and Lines; Areas of Geometrical Figures - Related theorems; Practical Geometry; Basic constructions, Constructions of Triangles, Quadrilaterals, Circles, Similar triangles, Tangents to Circles and related problems.

6. Co-ordinate Geometry: Basic concepts, dividing a line segment in the given ratio and its usage in different situations, slope of a line, distance between two points, area of triangles, Quadrilaterals and Collinearity of points.
7. Concept of locus; Straight line - different forms of straight line and conversions; Angle between two lines; Length of perpendicular from a point to a line; Distance between two parallel lines; Circle Equation - standard form, center and radius; Position of a point in plane of circle; Relative positions of two circles -Transformation of Axes- 3-D Geometry- DR's and DC's and Cartesian equation of a plane. Conic Section.
8. Mensuration: Plane figures; Need and importance of Area and Perimeter of different triangles, quadrilaterals, polygons, circles, ring etc., in daily life; Solid figures; Need and importance of CSA, TSA and volume of prism, cube, cuboids, pyramid, cylinder, cone, sphere, hemisphere; Conversions from one solid to another; Problems with combination of solids (not more than three) in daily life; Conversions- 3-D figures and 2-D figures.
9. Statistics and Probability :Data handling : Types and representation of data; Measure of central tendency of ungrouped and grouped data specific usages; Presentation of data - different graphs and related problems ; Probability Basic concepts, outcomes and chances; Events - mutually exclusive, possible and impossible, complementary; Applications of probability Measures of dispersions - Range, Q.D, M.D, S.D. ; Coefficient of variation; Probability- Random experiments and events (Independent and Dependent); Addition and multiplication theorems of probability; Random variables. Axiomatic approach.
10. Trigonometry :Basic concepts; Trigonometric ratios; Trigonometric values for specific angles; Complementary angles; Trigonometric Identities; Conversions of Trigonometric ratios - Trigonometric transformations - Heights and distances; Trigonometric ratios of compound angles; Properties of triangles - relation between sides and angles of a triangles - Inverse trigonometric functions. Multiples and submultiples -Trigonometric expansions.

Syllabus for the post of Trained Graduate Teacher in Residential Educational Institutions Societies

Paper-II: Pedagogy of Physical Sciences

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.

Paper-III: Physical Sciences

I. Measurements, Units and Dimensions:

Need of measurement in daily life. systems of units. Units and dimensions, Significance of accuracy in measurement. Measuring instruments; Types of errors in measurements - mean absolute relative percentage errors; Fundamental and derived physical quantities. Rules for writing units in SI, derived units SI, Multiples and submultiples of SI units; Dimensional formulae and dimensional equations, dimensionless quantities; principle of homogeneity of dimensions. Application of dimensional analysis.

II. Natural Resources - Air and Water:

Composition of air, atmospheric pressure, the consequences of air pollution, ways to reduce air pollution. Winds, cyclones, natural calamities and management of their bad consequences, Composition of water, water cycle, change of phase, Latent Heat. Forms of water in atmosphere, boiling, melting, water pollution and hardness of water. How to handle the shortage of drinking water? Methods of increasing ground water levels.

III. Our Universe:

Need to develop the Habit of Night sky observation, How to differentiate constellations with zodiac signs, study of solar system, different laws pertaining to the motion of celestial bodies and ways of measuring the distances in space. Principles of launching of satellites and their applications in day to day life.

IV Natural Phenomenon:

i. Light: Nature of light, Theories of light, Fermat principle, Reflection - its laws. Image formation in plane and spherical mirrors. Rules for Ray diagrams and Formula for spherical mirrors - focal length and sign convention. Application of mirrors. Properties of Light and Laws; Electro Magnetic spectra,

ii. Heat: Heat as energy- sources of heat, Transmission of heat, Expansion of solids, liquids and gases. Temperature (based on thermal equilibrium), Different Scales of Temperature- measurement Different type of Thermometers and their construction. Calorimetry, Applications of Specific heat, Latent heat. Anomalous expansion of water and its significance in nature. Combustion, Calorific value, specific heat of gases.

iii. Sound: Sources of sound. Noise and music. Musical instruments. Propagation of sound. Velocity of sound in different media / substances. Characteristics of sound. Structure of human ear - in Auditory aspect. Reflection of sound, echo, Resonance, Sonar and Doppler effect. Simple Harmonic Motion.

V. Mechanics:

Application of Simple Machines in daily life situations. Scalars and Vectors. Free Body Diagram. All types of motion. Different types of Forces. Different types of frictions and effects of friction. Newton's laws of motion. Momentum. Equations of motion (under gravity and freely falling), projectile. Range. Laws of Floatation. Different laws of fluids. Different types of Energies. Conservation of energy, Work and Power. Work energy theorem. Center of mass. Centre of gravity for regular and irregular objects. Stability and Equilibrium. Universal law of Gravitation. Relation between 'g' and 'G'. Circular motion, Frame of reference, Kepler's Laws. Elasticity and Hooke's Law

VI. Magnetism:

Types of Magnets, Identification of Magnetic and Non-magnetic substances, magnetic field, Uniform and non uniform magnetic fields. Magnetic induction. Magnetic lines of force. Terrestrial magnetism-Terrestrial magnetic field. Geo magnetism. Uses of Magnetism; Dip, Declination Magnetic pole strength, Magnetic moment. Inverse square law of magnetism. Magnetic properties of materials and their classification. Domine theory.

VII. Electricity & Electro Magnetism:

Electric charge, field, electric intensity, electric potential, potential difference. Simple Electric Circuits and precautionary measures. House hold circuits. Conductors, Non conductors / Insulators, Coulomb's inverse square law. Primary and secondary Cells. Ohm's

Law - its limitations. Resistances in series and parallel, Emf of a circuit; Specific resistance. Kirchhoff's laws. Relation between electric potential and Electric energy, electric Power (wattage), House hold and Industrial power saving. Heating effect of electric current, and Joule's law. Lighting and Working of lightning conductor, Prevention and control of damage due to lightning. Earthing in electrical appliances. Magnetic field due to currents carrying wire, Ampere's law, circular loop and Solenoid. Magnetic force on moving charged particle and long straight conductors. Fleming's left hand rule, Electric motor. Electromagnetic induction - Faraday's law Electromagnetic flux. Lenz law, Generators and Alternating Currents. Inductance - self, mutual inductance and principles of transformer.

VIII. Modern Physics:

Discharge of Electricity through gases, Discharge tube phenomena, Cathode rays, Properties of Cathode rays, Anode rays and their properties; X-rays; Atomic models: JJ Thomson, Rutherford and Bohr's models. Atomic nucleus and its structure. Atomic models: Mass defect; Radio Activity- Discovery, properties of alpha, beta, and gamma radiations. Applications of alpha, beta, and gamma radiations, Radioactive transformations, alpha, beta decays, Half life period, Isotopes, Isobars, and Isotones.

Radioactive transmutation-artificial radioactivity; radio isotopes and their uses in different fields; radioactive series; Chain and controlled nuclear reactions; Fission and fusion of nuclei - atomic bomb and hydrogen bomb.

IX. Electronics and Communications:

Semi conductors - intrinsic and extrinsic; band theory; diode, p-n junction characteristics. Transistor - pnp & npn characteristics and uses. Zener Diode characteristics. Simple electronic circuits, Logic gates - applications. Importance of ICT Block diagram of computer and its parts Input devices, process and output devices, applications of computers Communication: components of Communication. Basic terminology used in electronic communication system. Band width of transmission medium, propagation, modulation and demodulation.

X. Matter:

States of matter. Elements, Compounds and Mixtures. Methods of separation of mixtures. Chromatography. Behavior of gases; measurable properties of gases; gas laws. Mole concept. Dalton, Avogadro, Berzelius laws.

XI. Chemical Reactions:

Physical and chemical changes. Types of Chemical reactions; daily applications. Laboratory preparation of different gases. Physical and Chemical properties various compounds. Chemical calculations. Sources of common salt. Common salt - as a raw material for other chemicals (NaOH, Bleaching powder, baking soda, washing soda, and their uses, Plaster of Paris)

XII. Acids and Bases, Salts:

Preparation, properties, Strength and uses of Acids & Bases. Neutralization. Preparation, properties, nature and uses of different Salts. Water of crystallization. Complex, Neutral and double salts. Oxidation and Reduction, Rancidity. Identification of Acids, Bases-Indicators: Natural, Chemical. pH Scale - Role of PH in daily life-agriculture, medicine. Classification of salts based on affinity to water Examples of Acidic, Basic, Mixed, Complex, Neutral and double salts. Solutions - Types of solutions; solubility, ionization, Concentration; Oxidation number concept. Balancing of Redox reactions, Calculation of Concentrations. Titration and volumetric analysis. Stoichiometry.

XIII. Atomic Structure:

Electromagnetic spectrum, Atomic spectrum, Characteristics of electron, proton and neutron, Rutherford's model of an atom, nature of electromagnetic radiation, Plank's quantum mechanics, explanation of photo electric effect, features of atomic spectra, characteristics of hydrogen spectrum, Bohr's theory of structure of atom, Bohr's explanation of spectral lines, failure of Bohr's theory, wave particle nature of electrons, de Broglie's hypothesis, Heisenberg's uncertainty principle, important features of the Quantum mechanical model of an atom, Quantum numbers, concept of orbitals, define an atomic orbital in terms of quantum numbers-shapes of s, p and d orbitals, n l x rule, Energies of electronic energy levels (n+l) rule state Aufbau principle, Pauli's exclusive principle and Hund's rule of maximum

multiplicity, electronic configuration of atom, explanation of stability of half filled and completely filled orbital.

XIV. Periodic Classification of Elements:

Need for arrangement of elements in an organized manner. Historical background of classification of elements Doberiner's Triads, Newland's law of Octaves. Mendeleev's Periodic Table (Achievements & Limitations). Mosley periodic table - based on electronic configuration. Characteristics of elements in groups and periods. The concept of grouping elements in accordance to their properties; the periodic law the signification of atomic number and electronic configuration as the basis per periodic classification. Classification of elements into s-block, p-block, d-block, f-block. and their main characteristics. Periodic trends in physical and chemical properties of elements. Study of different Groups of periodic table.

XV. Chemical Bonding:

Why do atoms combine? Electronic theory of Valence by Lewis and Kossel Octet Rule, Ionic and Covalent bonds: examples with Lewis Dot formulae Introduction of chemical bonding. Electronic Configuration of Noble gases. sigma, pi bond with examples. Shapes of molecules bond lengths and bond angles in molecules. Hybridization and explanation of H₂O, BF₃, CH₄, NH₃ etc. molecules. Hydrogen bonding and types of H-bonds.

XVI. Carbon and its Compounds:

Need to study of carbon compounds separately. Classification of Organic compounds Hydrocarbons - Alkanes, alkenes, alkynes aromatic and aliphatic compounds with examples. Bonding in Carbon including Hybridization. Allotropes of Carbon. Versatile nature of carbon. Tetravalency, Chains, branches and rings. Catenation, Multiple bonding, Isomerism. Saturated and Unsaturated carbon compounds. Bonding of carbon with other elements. Functional groups in carbon compounds. Homologous series. Chemical properties of carbon compounds Combustion and Oxidation. Addition reactions. Substitution reaction. Important carbon compounds. Nomenclature organic compounds. Carbohydrates and their classification. Proteins-examples, Oils and fats examples Polythene - Nylon, PVC, Polyvinyl alcohol; Rubber - uses in daily life. Polymers, and other important organic compounds.

XVII. Environmental Chemistry and Metallurgy

Different types of pollutions, acid rains, green chemistry, strategies to control environmental pollution. Occurrence of Metals. Minerals, Ores - Examples. Metallurgy - Processes involved in metallurgy. Extractions of metals - activity series and related metallurgy, flow chart of steps involved in the extraction of metals from ore. Refining metals, Electrolytic refining, Corrosion - Prevention of Corrosion. Alloys and their uses.

Syllabus for the post of Trained Graduate Teacher in Residential Educational Institutions Societies

Paper-II: Pedagogy of Biological Sciences

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
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.

Paper-III: Biological Sciences

1. Biological Sciences: Its importance and human welfare, Branches of Biology, Biologists, Reputed Biological Institutions in India.
2. Living World: Life and its Characteristics, Classification of Living Organisms Microbial World : Virus, Bacteria, Algae, Fungi and Protozoan, Useful and Harmful Micro-organisms.
3. Cell & Tissues: Cell - Structural and Functional unit of life. Prokaryotic and Eukaryotic Cell, Structure of Eukaryotic Cell, Cell Organelles, Biomolecules, Differences between Plant Cell and Animal Cell, Cell Division - Mitosis and Meiosis, Tissues - Structure, Functions and Types of Plant and Animal tissues.
4. Plant World: Morphology of a Typical Plant - Root, Stem, Leaf, Flower, Inflorescence, Fruit - their Structure, Types and Functions, Parts of a Flower, Modifications of Root, Stem and Leaf, Photosynthesis, Transpiration, Transportation (Ascent of Sap), Respiration, Excretion and Reproduction in Plants, Plant Hormones, Economic importance of Plants, Wild and Cultivated Plants, Agricultural Operations, Crop diseases and Control measures, Improvement in Crop yield, Storage, Preservation and Protection of Food and Plant Products.
5. Animal World: Organs and Organ Systems including man - Their Structure and Functions Digestive, Respiratory, Circulatory, Excretory, Nervous, Control and Co-ordination, Sensory perception and Reproduction, Need for reproductive health and prevention of STD, birth control- Need and methods of contraception and MTP, Amniocentesis, infertility and assisted reproductive technologies - IVF -ET - ZIFT, GIFT.
6. Sense Organs: Structure and Functions of Eye, Ear, Nose, Tongue and Skin. Nutrition in man - Digestion and absorption - Breathing and Respiration in humans - Nutrients and their functions, Balanced Diet, Deficiency diseases, Tropical diseases, Skin diseases, Blindness in man: Causes, Prevention and Control, Health agencies, First Aid - Bites: Insect, Scorpion and Snakes. Wild and Domesticated Animals.
7. Our Environment: Abiotic and Biotic factors and Ecosystems, Natural Resources - Classification, Judicial use of Renewable, Non-renewable and Alternative Resources, Forests, Wild Life - Conservation, Sanctuaries, National Parks in India, Bio-Geochemical Cycles, Pollution - Air, Water, Soil and Sound, Global Environmental issues - Global Warming (Green House Effect), Acid Rains, Depletion of Ozone layer and scarcity of water.
8. Heredity and Genetics:- Mendel's laws of inheritance, Pleiotropy, Multiple alleles: Inheritance of blood groups and Rh-factor, dominance (Blood groups as example), Elementary idea of polygenic inheritance; Skin colour in humans (refer Sinnott, Dunn and Dobzhansky); Sex determination - in humans - Sex linked inheritance - Haemophilia, Color blindness; Mendelian disorders in humans: Thalassaemia, Haemophilia, Sick cell anemia, cystic fibrosis PKU, Alkaptonuria; Chromosomal disorders - Down's syndrome, Turner's syndrome and Klinefelter syndrome; Genome, Human Genome Project and DNA Finger Printing. Gene Bank, Gene flow and genetic drift; Variations (mutations and genetic recombination).
9. Evolution: Origin of Life, Biological evolution and Evidences for biological evolution (paleontological, comparative anatomical, embryological and molecular evidences); Theories of evolution: Lamarckism, Darwin's theory of Evolution - Natural Selection, Mutation Theory of Hugo De Vries; Modern synthetic theory of Evolution - Hardy-Weinberg Law; Types of Natural Selection; Adaptive radiation - Human evolution; Speciation - Allopatric, sympatric; Reproductive isolation.
10. Applied Biology: Animal Husbandry: Apiculture, Pisciculture, Poultry management, Dairy management; Animal breeding; Bio-medical Technology: Diagnostic Imaging (X-ray, CT scan, MRI), ECG, EEG; Biotechnology - its importance for human welfare - Human insulin and vaccine production; Gene Therapy; Transgenic animals; ELISA: vaccines, MABs, Cancer biology, Stem Cells.

PAPER-II : Pedagogy of Science

- I. The Nature of Science and its Historical Development including the contributions of important Scientists given in the school textbooks. Importance of Sciences in School Curriculum; NCF-2005.
- II. Values, Aims and Objectives of Teaching Science
- III. Child Development; Psychology of Teaching and Learning Science
- IV. Science Curriculum : Construction ,Organization and Development
- V. Approaches, Methods and Techniques of Teaching Sciences with special reference to the topics given in the school textbooks
- VI. Planning for Effective Instruction in Sciences: Different Plans and Designing Learning Experiences.
- VII. Learning Resources and Designing Instructional Material in Sciences; Science Labs; Teaching Aids ; Textbooks; ICT in Sciences
- VIII. Measurement and Evaluation in Sciences : Continuous and Comprehensive Evaluation (CCE) ; Tools and Techniques of Evaluation; Achievement and Diagnostic Tests.
- IX. Learning Disabilities/Difficulties and Education of Exceptional/ Disabled Children in Sciences
- X. Sciences and Everyday Life; Non-formal Sciences Education.

Paper-III - Disciplinary Knowledge in Science

- I. **Measurements, Units and Dimensions:** Need of measurement in daily life. Systems of units. Units and dimensions, Significance of accuracy in measurement.
 - II. **Natural Resources - Air and Water:** Composition of air, atmospheric pressure, the consequences of air pollution, ways to reduce air pollution. Winds, cyclones, natural calamities and management of their bad consequences, Composition of water, water cycle, change of phase, Latent Heat. Forms of water in atmosphere, boiling, melting, water pollution and hardness of water. How to handle the shortage of drinking water? Methods of increasing ground water levels.
 - III. **Our Universe :**Need to develop the Habit of Night sky observation, How to differentiate constellations with zodiac signs, study of solar system, different laws pertaining to the motion of celestial bodies and ways of measuring the distances in space.
- IV. Natural Phenomenon:**
- i. **Light:** Nature of light, Theories of light, Fermat principle, Reflection - its laws. Image formation in plane and spherical mirrors. Rules for Ray diagrams and Formula for spherical mirrors - focal length and sign convention. Application of mirrors. Refraction and its laws, Refraction at curved surface and prism. Rules for Ray diagram. Images formed by the lenses. Refractive index. Total internal reflection and its applications. Formula for thin lenses and lens maker formula. Defects of vision and remedies. Dispersion, Scattering of light. Electro Magnetic spectra (elementary treatment)
 - ii. **Heat:** Heat as energy- sources of heat, Transmission of heat, Expansion of solids, liquids and gases. Temperature (based on thermal equilibrium), Different Scales of Temperature-measurement Different type of Thermometers and their construction. Calorimetry, Applications of Specific heat, Latent heat. Anomalous expansion of water and its significance in nature. Combustion, Calorific value, iii. **Sound:** Sources of sound. Noise and music. Musical instruments. Propagation of sound. Velocity of sound in different media / substances. Characteristics of sound. Structure of human ear - in Auditory aspect. Reflection of sound, echo, Resonance, Sonar and Doppler Effect.
- V. Mechanics:** Application of Simple Machines in daily life situations. Scalars and Vectors. Free Body Diagram. All types of motion. Different types of Forces. Different types of frictions and effects of friction. Newton's laws of motion. Momentum. Equations of motion (under gravity and freely falling), projectile. Laws of Floatation. Different laws of fluids. Different types of Energies. Conservation of energy, Work and Power. Center of mass. Centre of gravity for regular and irregular objects. Stability and Equilibrium. Universal law of Gravitation. Relation between 'g' and 'G'. Circular motion.
- VI. Magnetism:** Types of Magnets, Identification of Magnetic and Non-magnetic substances, magnetic field, Uniform and non uniform magnetic fields. Magnetic induction. Magnetic lines of force. Terrestrial magnetism-Terrestrial magnetic field. Geo magnetism. Uses of Magnetism; Dip, Declination Magnetic pole strength.
- VII. Electricity & Electro Magnetism:** Electric charge, field, electric intensity, electric potential, potential difference. Simple Electric Circuits and precautionary measures. House hold circuits. Conductors, Non conductors / Insulators, Coulomb's inverse square law. Primary and secondary Cells. Ohm's Law - its limitations. Resistances in series and parallel, Emf of a circuit; Specific resistance. Kirchhoff's laws. Relation between electric potential and Electric energy, electric Power (wattage), House hold and Industrial power saving. Heating effect of electric current, and Joule's law. Lighting and Working of lightning conductor, Prevention and control of damage due to lightning. Earthing in electrical appliances. Magnetic field due to currents carrying wire, Ampere's law, circular loop and Solenoid. Magnetic force on moving charged particle and long straight conductors. Fleming's left hand rule, Electric motor. Electromagnetic induction - Faraday's law Electromagnetic flux. Lenz law, Generators and Alternating Currents. Inductance - self, mutual inductance and principles of transformer.
- VIII. Modern Physics:** Discharge of Electricity through gases, Discharge tube phenomena, Cathode rays, Properties of Cathode rays, Anode rays and their properties; X-rays; Atomic

models: JJ Thomson, Rutherford and Bohr's models. Atomic nucleus and its structure. Atomic models: Mass defect; Radio Activity- Discovery, properties of alpha, beta, and gamma radiations. Applications of alpha, beta, and gamma radiations, Radioactive transformations, alpha, beta decays, Half life period, Isotopes, Isobars, and Isotones.

- IX. Matter:** States of matter. Elements, Compounds and Mixtures. Methods of separation of mixtures. Chromatography. Behavior of gases; measurable properties of gases; gas laws. Mole concept. Dalton, Avogadro, Berzelius laws.
- X. Chemical Reactions:** Physical and chemical changes. Types of Chemical reactions; daily applications. Laboratory preparation of different gases. Physical and Chemical properties various compounds. Chemical calculations. Sources of common salt. Common salt - as a raw material for other chemicals (NaOH, Bleaching powder, baking soda, washing soda, and their uses, Plaster of Paris)
- XI. Acids and Bases, Salts:** Preparation, properties, Strength and uses of Acids & Bases. Neutralization. Preparation, properties, nature and uses of different Salts. Water of crystallization. Complex, Neutral and double salts. Oxidation and Reduction, Rancidity. Identification of Acids, Bases-Indicators: Natural, Chemical. PH Scale - Role of PH in daily life-agriculture, medicine. Classification of salts based on affinity to water Solutions - Types of solutions; solubility, ionization, Concentration; Oxidation number concept.
- XII. Atomic Structure:** Electromagnetic spectrum, Atomic spectrum, Characteristics of electron, proton and neutron, Rutherford's model of an atom, nature of electromagnetic radiation, Plank's quantum mechanics, explanation of photo electric effect, features of atomic spectra, characteristics of hydrogen spectrum, Bohr's theory of structure of atom, Bohr's explanation of spectral lines, failure of Bohr's theory, wave particle nature of electrons, de Broglie's hypothesis, Heisenberg's uncertainty principle, important features of the Quantum mechanical model of an atom, Quantum numbers, concept of orbitals, define an atomic orbital in terms of quantum numbers-shapes of s, p and d orbitals, $n + l$ rule, Energies of electronic energy levels ($n+l$) rule state Aufbau principle, Pauli's exclusive principle and Hund's rule of maximum multiplicity, electronic configuration of atom, explanation of stability of half filled and completely filled orbital.
- XIII. Periodic Classification of Elements:** Need for arrangement of elements in an organized manner. Historical background of classification of elements Doberiner's Triads, Newland's law of Octaves. Mendeleev's Periodic Table (Achievements & Limitations). Mosley periodic table - based on electronic configuration.Characteristics of elements in groups and periods. The concept of grouping elements in accordance to their properties; the periodic law the signification of atomic number and electronic configuration as the basis per periodic classification. Classification of elements into s-block, p-block, d-block, f-block. and their main characteristics. Periodic trends in physical and chemical properties of elements.
- XIV. Chemical Bonding:** Why do atoms combine? Electronic theory of Valence by Lewis and Kossel Octet Rule, Ionic and Covalent bonds: examples with Lewis Dot formulae Introduction of chemical bonding. Electronic Configuration of Noble gases. sigma, pi bond with examples. Shapes of molecules. bond lengths and bond angles in molecules. Hybridization and explanation of H₂O, BF₃, CH₄, NH₃ etc. molecules.
- XV. Carbon and its compounds:** Need to study of carbon compounds separately. Classification of Organic compounds Hydro carbons - Alkanes, alkenes, alkynes aromatic and aliphatic compounds with examples. Bonding in Carbon including Hybridization. Allotropes of Carbon. Versatile nature of carbon. Tetravalency, Chains, branches and rings. Catenation, Multiple bonding, Isomerism. Saturated and Unsaturated carbon compounds. Bonding of carbon with other elements. Functional groups in carbon compounds. Homologous series. Chemical properties of carbon compounds Combustion and Oxidation. Addition reactions. Substitution reaction. Important carbon compounds. Nomenclature organic compounds. Carbohydrates and their classification. Proteins-examples, Esterification reaction, Soaps Saponification, Micelles.
- XVI. Metallurgy:** Occurrence of Metals. Minerals, Ores - Examples. Metallurgy - Processes involved in metallurgy. Occurrence and extraction of various metals . Extractions of metals - activity series and related metallurgy, flow chart of steps involved in the

extraction of metals from ore. Refining metals, Electrolytic refining, Corrosion - Prevention of Corrosion. Alloys and their uses.

XVII. Biological Sciences: Its importance and human welfare, Branches of Biology, Biologists, Reputed Biological Institutions in India.

XVIII. Living World: Life and its Characteristics, Classification of Living Organisms

Microbial World : Virus, Bacteria, Algae, Fungi and Protozoan, Useful and Harmful Micro-organisms.

XIX. Cell & Tissues: Cell - Structural and Functional unit of life. Prokaryotic and Eukaryotic Cell, Structure of Eukaryotic Cell, Cell Organelles, Biomolecules, Differences between Plant Cell and Animal Cell, Cell Division - Mitosis and Meiosis, Tissues - Structure, Functions and Types of Plant and Animal tissues.

XX. Plant World: Morphology of a Typical Plant - Root, Stem, Leaf, Flower, Inflorescence, Fruit - their Structure, Types and Functions, Parts of a Flower, Modifications of Root, Stem and Leaf, Photosynthesis, Transpiration, Transportation (Ascent of Sap), Respiration, Excretion and Reproduction in Plants, Plant Hormones, Economic importance of Plants, Wild and Cultivated Plants, Agricultural Operations, Crop diseases and Control measures, Improvement in Crop yield, Storage, Preservation and Protection of Food and Plant Products.

XXI. Animal World: Organs and Organ Systems including man - Their Structure and Functions Digestive, Respiratory, Circulatory, Excretory, Nervous, Control and Co-ordination, Sensory perception and Reproduction, Need for reproductive health and prevention of STD, birth control- Need and methods of contraception and MTP, Amniocentesis, infertility and assisted reproductive technologies - IVF - ET - ZIFT, GIFT.

XXII. Sense Organs: Structure and Functions of Eye, Ear, Nose, Tongue and Skin. Nutrition in man - Digestion and absorption - Breathing and Respiration in humans - Nutrients and their functions, Balanced Diet, Deficiency diseases, Tropical diseases, Skin diseases, Blindness in man: Causes, Prevention and Control, Health agencies, First Aid - Bites: Insect, Scorpion and Snakes. Wild and Domesticated Animals.

XXIII. Our Environment: Abiotic and Biotic factors and Ecosystems, Natural Resources - Classification, Judicial use of Renewable, Non-renewable and Alternative Resources, Forests, Wild Life - Conservation, Sanctuaries, National Parks in India, Bio-Geochemical Cycles, Pollution - Air, Water, Soil and Sound, Global Environmental issues - Global Warming (Green House Effect), Acid Rains, Depletion of Ozone layer and scarcity of water.

XXIV. Heredity and Genetics:- Mendel's laws of inheritance, Pleiotropy, Multiple alleles: Inheritance of blood groups and Rh-factor, dominance (Blood groups as example), Elementary idea of polygenic inheritance; Skin colour in humans (refer Sinnott, Dunn and Dobzhansky); Sex determination - in humans - Sex linked inheritance - Haemophilia, Color blindness; Mendelian disorders in humans: Thalassemia, Haemophilia, Sickle celled anemia, cystiefibrosis PKU, Alkaptonuria; Chromosomal disorders - Down's syndrome, Turner's syndrome and Kilnefelter syndrome; Genome, Human Genome Project and DNA Finger Printing. Gene Bank, Gene flow and genetic drift; Variations (mutations and genetic recombination).

XXV. Evolution: Origin of Life, Biological evolution and Evidences for biological evolution (paleontological, comparative anatomical, embryological and molecular evidences); Theories of evolution: Lamarckism, Darwin's theory of Evolution - Natural Selection, Mutation Theory of Hugo De Vries; Modern synthetic theory of Evolution - Hardy-Weinberg Law; Types of Natural Selection; Adaptive radiation - Human evolution; Speciation - Allopatric, sympatric; Reproductive isolation.

Syllabus for the post of Trained Graduate Teacher in Residential Educational Institutions Societies

Paper-II: Pedagogy of Social Studies

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.

Paper-III: Social Studies

- I. **Diversity of the Earth-** Lands, Climates, Environment, Rivers & Settlements, Agriculture and Forests. Irrigation, Power, Minerals and Energy resources with special reference to Telangana.
- II. **Economic features of India and Telangana:** Agricultural economy, Handicrafts and Handlooms, Industrial Economy. Credit and the Financial System, Money & Banking - Income and Debts, Expenditure. Inflation and poverty, Impact of Globalization and Technologies on Livelihood.
- III. **Empires and World wars:** The Kakatiyas, Vijayanagaras, Delhi sultanate & Mughals - British and the Nizams Rule in Telangana. Indian National Movement - Telangana Movement and State Formation-Nationalist, Democratic Social and Religious Reforms - and movements. Making of Laws at the Central and State levels.
- IV. **Service and welfare programmes in India and Telangana.** Programmes for Disaster Management. Public Health Programs. The People: Settlement & Migration - Traffic education; Film and Print Media- Fine Arts, Folklore, Traditions and Festivals with reference to Telangana. Telangana Heritage, Monuments and historical sites.
- V. **The Indian constitution - Democracy and Secularism.** Post Independent India Caste Discrimination and Struggle for Equalities, Understanding the Indian Political System - Self Governments.

ANNEXURE - III

INSTRUCTIONS TO CANDIDATES:**A) GENERAL INSTRUCTIONS TO CANDIDATES**

- 1) Candidates are directed to follow the Board's Website (www.treirb.telangana.gov.in) regularly to know the latest developments regarding the Recruitment, dates of Examination, calling of candidates for verification of Certificates/ Interviews/ Results etc.
- 2) 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 interview/ verification, may lead to disqualification. Hence the candidates are advised not to change their appearance till the recruitment process is complete.
- 3) **The candidates are not allowed to bring any Electronic devices such as mobile / cellphones, 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.
- 4) The candidates are expected to behave in orderly and disciplined manner while writing the examination. If any candidate takes away Answer Sheet of OMR based examination, the candidature will be rejected and in case of impersonation/ disorder/ rowdy behavior during Examination, necessary F.I.R. for this incident will be lodged with concerned Police Station, apart from disqualifying his / her candidature.
- 5) Candidates trying to use unfair means shall be disqualified from the selection. No correspondence whatsoever will be entertained from the candidates.
- 6) 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 Examination.

B) INSTRUCTIONS REGARDING OFFLINE OMR BASED EXAMINATION FOR CANDIDATES

- 1) The candidates have to report 30 minutes before to the examination venue to record their thumb impression on Biometric system.
- 2) The candidates should go through the instructions given on the cover page of test booklet and carefully write his/her Register Number, Subject / Subject Code, Booklet Series, Name of the Examination Centre etc., in the Answer Sheet, which will be provided to him/her in the examination hall.
- 3) Since the answer sheets are to be scanned (valued) with Optical Mark Scanner system, the candidates have to **USE BALL POINT PEN (BLUE/BLACK) ONLY FOR MARKING THE ANSWERS.** The candidates will be supplied OMR Sheet consists of two copies i.e., the Original Copy (Top Sheet) and Duplicate Copy (Bottom Sheet). The candidate is required to use Ball Point Pen (Blue or Black) for filling the relevant blocks in the OMR Sheet including bubbling the answers. **After writing the examination the candidate has to handover the original OMR sheet (Top Sheet) to the invigilator in the examination hall, if any candidate takes away the original OMR Sheet (Top Sheet) his/her candidature will be rejected. However the candidate is permitted to take away the duplicate (Bottom Sheet) OMR Sheet for his/her record.** The candidates should bring Ball Point Pen (Blue/Black and smooth writing pad) to fill up relevant columns on the Answer Sheet. The candidate must ensure encoding the Register Number, Subject/Subject Code, Booklet Series, Name of the Examination Centre, Signature of the Candidate and Invigilator, etc., on the O.M.R. Answer sheet correctly, failing which the Answer sheet will be rejected and will not be valued. **Use of whitener on OMR Sheet will lead to disqualification.**
- 4) The OMR Sheet is to bubble only by Ball Point Pen (Blue/Black). Bubbling by Pencil / Ink Pen / Gel Pen is not permitted in this examination.
- 5) The candidates should satisfy the Invigilator of his identity with reference to the signature and photographs available on the Nominal Rolls and Hall Ticket.
- 6) No candidate should leave the examination hall till expiry of fulltime.

- 7) 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 reserves the right to cancel his/ her candidature and to invalidate the Answer Sheet.
- 8)
 - (i) Wherever Written Examination is held, only those candidates who are totally blind are allowed to write the examination with the help of scribe and 10 minutes extra time is permitted to them per hour.
 - (ii) An extra time of 20 minutes per hour is also permitted for the candidates with locomotor disability and CEREBRAL PALSY where dominant (writing) extremity is affected for the extent slowing the performance of function (Minimum of 40% impairment). No scribe is allowed to such candidates.
 - (iii) Scribe will be provided to those candidates who do not have both the upper limbs for Orthopedically Handicapped. However, no extra time will be granted to them.
 - (a) 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.
 - (b) The candidate as well as the scribe will have to give a suitable undertaking confirming the rules applicable
- 9) If the candidate noticed any discrepancy printed on Hall ticket as to community, date of birth etc., they may immediately bring to the notice of Board's officials/Chief Superintendent in the examination centre and necessary corrections be made in the Nominal Roll, in the Examination Hall against his/her Hall Ticket Number for being verified by the Board's Office.

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

**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, Vadabalija, Bestha, Jalari, Gangavar, Gangaputra, Goondla, Vanyakulakshatriya (Vannekapu, Vannereddi, 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.

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 (Khatari)
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
(Harijan Converts)

1 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. Sistikaranam
45. Lakkamarikapu
46. Veerashaiva Lingayat / Lingabalija
47. Kurmi

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,
 - a. 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 Fhakhiru, Turaka Budbudki, Darvesh, Fakeer
5. Garadi Muslim, Garadi Saibulu, Pamulavally, Kani-Kattuvally, Garadollu, Garadiga
6. Gosangi Muslim, Phakeer Sayebulu
7. Guddi Eluguvally, Elugu Bantuvally, Musalman Keelu Gurrallavally

8. Hajam, Nai, Nai Muslim, Navid
9. Labbi, Labbai, Labbon, Labba
10. Pakeerla, Borewale, Deera Phakirlu, 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

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

Note:

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.