

TELANGANA STATE PUBLIC SERVICE COMMISSION: HYDERABAD

NOTIFICATION NO. 17/2022, DATED: 29/11/2022

**VARIOUS GAZETTED CATEGORIES OF POSTS IN GROUND WATER DEPARTMENT
(GENERAL RECRUITMENT)**

PARA – I:

1) Applications are invited Online from qualified applicants through the proforma Application to be made available on Commission's website (<https://www.tspsc.gov.in>) to the post of **Various Gazetted Categories of Posts in Ground Water Department in the State of Telangana.**

i) Submission of ONLINE applications starts from **Dt. 06/12/2022.**

ii) Last date and time for submission of ONLINE applications is upto 5.00 PM on **27/12/2022.**
The payment of Fee will be accepted upto 5:00 P.M of last date for submission.

2) The details of vacancies are given below: -

PC. No.	Name of the Post	No. of Vacancies	Age as on 01/07/2022 Min. Max.	Scale of Pay Rs.
01	Assistant Hydrometeorologist	01 (Solitary Post)	18-44	45,960– 1,24,150/-
02	Assistant Chemist	04		
03	Assistant Geophysicist	06		
04	Assistant Hydrogeologist	16		54,220– 1,33,630/-
05	Assistant Hydrologist	05		

(The Details of Vacancies i.e., Community-wise, PH-wise, EWS, Sports Category, State / Multi Zone and Gender-wise (General/Women) may be seen at Annexure-I.)

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

3) (i) **The Examination (Objective Type) is likely to be held in the Month of March/April2023 and the Commission reserves the right to conduct the Examination either through COMPUTER BASED RECRUITMENT TEST (CBRT) OR OFFLINE OMR BASED EXAMINATION OF OBJECTIVE TYPE.**

(ii) **Exact date for the above examination will be announced later.**

(iii) **Hall Tickets can be downloaded from 7 days prior to the examination.**

(iv) **Candidates are instructed to read the instructions at Annexure-IV of this Notification and Instructions printed on the Hall Ticket carefully, without fail.**

4) Before applying for the posts, candidates shall register themselves on the One Time Registration (OTR) through the Official Website of TSPSC (<https://www.tspsc.gov.in>). Those who have registered in OTR already shall apply by login to their profile using their TSPSC ID and Date of Birth as provided in OTR. (In case if the candidate has forgotten the TSPSC ID, the candidate has to visit the TSPSC website and click on the link "Know Your TSPSC_ID" and enter the Aadhar Number and Date of Birth and get the TSPSC-ID). If the candidate did not register Aadhar Number in OTR, candidate has to enter either his/her registered mobile number or Name and Date of Birth to get the TSPSC ID).

Note:- i) One Time Registration is not considered as an application for any post under any circumstances.

ii) The applicants are advised to retain their Mobile Number and email id registered in OTR for receiving OTP/SMS for further communication.

IMPORTANT NOTE: Applicants are requested to keep the soft copy of the following documents ready while uploading their Applications and updating the OTRs.

- i. Aadhar Card /Voter ID / Pass Port / Driving License / Service ID Cards with (Photograph issued by Central/State/PSU/Public Limited Companies) / Passbook with (photograph by Bank / Post Office) / PAN Card.
- ii. Educational Qualifications i.e., SSC, Intermediate, Degree, Post Graduation etc.,
- iii. Study (Bonafide) / Residence Certificate (1st to 7th Class period).
- iv. Community Certificate (SC/ST/BC), Non-Creamy Layer Certificate in case of BCs issued by the competent authority of Telangana Government.
- v. Income certificate for the Financial Year prior to the year of application issued by the competent authority of Telangana Government for claiming EWS reservation.
- vi. Certificates claiming Sports & PH reservation, and age relaxation for Ex-Servicemen.

5) The applicants who possess requisite qualification may apply online by satisfying themselves about the terms and conditions of this recruitment.

6) **EDUCATIONAL QUALIFICATIONS:** Applicants must possess the requisite qualifications as detailed below, specified in the relevant Service Rules, indented by the Department, **as on the Date of Notification.**

PC. No.	Name of the Post	Educational Qualifications as specified in the Service Rules of the department
01	Assistant Hydrometeorologist	Master Degree in Meteorology or Physics or Mathematics or Applied Physics. Note: Any reference in these Rules to a Master's Degree or Degree shall mean the Master Degree or Degree of a University in India established or incorporated by or under a Central Act, Provincial Act or State Act or any other equivalent recognized qualification.
02	Assistant Chemist	Must hold M.Sc., Degree in Chemistry or Applied Chemistry or a Degree in Chemical Engineering or Chemical Technology. Note:- Any reference in these Rules to a Master's Degree or Degree shall mean the Master Degree or Degree of a University in India established or incorporated by or under a Central Act, Provincial Act or a State Act or any other equivalent recognized qualification.
03	Assistant Geophysicist	Must possess a Master's Degree in Geophysics. Note:- Any reference in these Rules to a Master's Degree or Degree shall mean the Master Degree or Degree of a University in India established or incorporated by or under a Central Act, Provincial Act or a State Act or any other equivalent recognized qualification.
04	Assistant Hydrogeologist	Must possess M.Sc or M.Sc(Tech) or M.Tech in Geology, or applied Geology or Hydrogeology or Diploma of Associate Ship in Applied Geology of the Indian Institute of Technology, Dhanbad. Note:- 1) Any reference in these Rules to a Master's Degree or Degree shall mean the Master Degree or Degree of a University in India established or incorporated by or under a Central Act, Provincial Act or a State Act or any other equivalent recognized qualification. 2) Any reference in these Rules to a Diploma shall mean the Diploma of a University or a Board in India established or incorporated by or under a Central Act, Provincial Act or a State Act or any other equivalent recognized qualification.

05	Assistant Hydrologist	<p>Must hold a Degree in Civil Engineering with Geology as one of the subjects or must have passed section A&B of the A.M.I.E.(India) Examination conducted by Institution of Engineers (India).</p> <p style="text-align: center;">OR</p> <p>M.Sc., [Hydrology], two years course.</p> <p>Note:- Any reference in these Rules to a Master's Degree or Degree shall mean the Master Degree or Degree of a University in India established or incorporated by or under a Central Act, Provincial Act or a State Act or any other equivalent recognized qualification</p>
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- N.B:- i) Distance Education:-** The Applicants who have obtained requisite Degrees through Open Universities / Distance Education mode are required to have recognition by the University Grants Commission / AICTE / Distance Education Bureau as the case may be. Unless such Degrees have been recognised by the relevant Statutory Authority, they will not be accepted for purpose of Educational Qualification vide its Public Notice No. F.27-1/2012 (CPP-II), Dt. 27/06/2013. (A university established or incorporated by or under a State act shall operate only within the territorial jurisdiction allotted to it under its Act and in no case beyond the territory of the State of its location). The onus of proof of recognition by the relevant Statutory Authority that their Degrees / Universities have been recognised rests with the candidate.
- ii) Equivalent Qualification:** At the time of verification of certificates, if it is noticed that any applicant possessing other than prescribed qualification and claims it as equivalent to the prescribed qualifications, then an Expert Committee will be constituted including the Unit Officer by the Commission and the Commission will take a decision based on the report of the Expert Committee.
- 7) **AGE:** The candidates should possess Minimum 18 years & Maximum 44 years. The age is reckoned as on 01/07/2022 (Rule-12(1)(a)(v) of State and Subordinate Service Rules).

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

Minimum Age (18 years): An Applicant should not be born after **01/07/2004**

Maximum Age (44 years): An applicant should not be born before **02/07/1978**

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

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

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

- Note:** Provided that the persons referred at Sl.No. 2&3 above shall, after making deductions referred to in Sub Rule–12(c)(i)&(ii) of Telangana State and Subordinate Service Rules not exceed the maximum age limit prescribed for the post.
- i) The age relaxation for Ex-servicemen is applicable for those who have been released from Armed forces other than by way of Dismissal or Discharge on account of misconduct or Inefficiency.
 - ii) The age relaxation for NCC, a Person who was recruited as a whole-time Cadet Corpse Instructor on or after the 1st January, 1963 on his discharge from the NCC either before or after the expiry of the initial or extended tenure of his office in NCC having served for a period of not less than six months prior to his release from the NCC.

N.B. However, no person shall be eligible if he/she crossed 61 years of age (Superannuation age) after availing the eligible age relaxations as on 01/07/2022.

8) (A) FEE:

- i) **Application Processing Fee:-** Each applicant must pay Rs. 200/- (Rupees Two Hundred Only) towards Online Application Processing Fee.
- ii) **Examination Fee:-** The applicants have to pay RS. 120/- (Rupees One Hundred and Twenty Only) towards Examination Fee. However,
 - a) All unemployed are exempted from payment of examination fee, and
 - b) All Employees of any Government (Central / State / PSUs / Corporations / Other Government Sector) have to pay the prescribed examination fee.

B) Mode of Payment of Fee:

The Fee mentioned at Para-I(8)(A) is to be paid online through payment gateway duly following online instructions once the application form details are submitted.

The fee once remitted, shall not be refunded or adjusted under any circumstances. Failure to pay the Application Processing fee and Examination fee, wherever applicable, will entail total rejection of application. Unless full payment of both Examination fee (**unless exempted**) and Application fee is made, the candidature of the applicant will be rejected and no correspondence or concession in this regard will be entertained. The list of Banks providing service for the purpose of online remittance of fee is given in **ANNEXURE – II.**

PARA-II: CENTRES FOR THE WRITTEN EXAMINATION:

The Written Examination (Objective Type) will be held at the **HYDERABAD only (including HMDA Jurisdiction)** or as decided by the Commission.

PARA-III: HOW TO APPLY:

HOW TO SUBMIT THE ONLINE APPLICATION FORM:

- (i) The Applicant has to read the **User Guide** (<https://www.tspsc.gov.in>) for Online Submission of Applications and then proceed further.

Step I: Before applying, the Applicant has to visit the website (<https://www.tspsc.gov.in>) and fill the OTR application if not registered earlier to obtain TSPSC ID. The candidates are advised to upload all the required certificates (However, original certificates have to be produced for verification at the time of scrutiny before finalizing the selection list). While filling the OTR, the applicant has to ensure that there are no mistakes in it. The Commission will not be held responsible for the mistakes, if any, made by the applicants. If already registered in the OTR the applicant can directly access the application form.

The applicant is instructed to fill his/her application form himself/herself with utmost care instead of delegating to others.

Step II:-a) In order to fill the application form, the Applicant has to visit the website (<https://www.tspsc.gov.in>) and Click on the online Application Link provided on the Website, then enter TSPSC ID and Date of Birth and login with OTP received to proceed further.

- b) Applicant has to verify the details fetched from OTR database pertaining to Name, Date of Birth, requisite Educational Qualifications, Community, Gender, ExServicemen & Sports etc., displayed on the screen.
- c) In addition to the details obtained from OTR database, specific details of Notification such as Examination Centre opted, required qualification and declarations etc., should be filled by the applicant.
- d) Preview and Edit facility is available to make changes and then click on SAVE & PAY button for proceeding to next step of making online payment of fee through payment gateway.

Step III:- The applicant should pay the prescribed fee as specified through any of the three modes of payment online i.e., Net Banking, Debit Card and Credit Card duly following the instructions appearing on the screen.

Step IV:- After payment of fee, the PDF application will be generated which contains the particulars furnished by the applicant. The applicant must download a copy of his/her submitted form (PDF). The Reference ID Number in the PDF application form has to be quoted for future reference/correspondence.

- 1) Applicant shall note that, the details available in OTR database at the time of submitting the application will only be considered for the purpose of this notification. Hence, the candidate is advised to update / edit the details in OTR form before submitting online application form. The Time and Date of submission of the application will be printed on the application PDF form. Changes made by the applicant in OTR details after submission of application form will not be considered for the purpose of this Notification.
- 2) The Commission is not responsible for any discrepancy in Bio-data particulars submitted in the application form. The applicant is therefore advised to strictly follow the instructions and User guide in his/her own interest before submitting the application.
- 3) Applicant must compulsorily fill-up all relevant columns of the application form. The eligibility of the applicant will be decided based on the particulars given in the online application form in terms of notification and it is validated by the software and it will be taken as final. For eg: If an applicant fails to update the OTR regarding his/her Sports status before applying, the applicant will not be considered for Sports vacancies. Applicant should therefore be very careful, while entering the data and uploading / submitting the application form online.
- 4) Incomplete / incorrect application form will be rejected. The information if any furnished by the applicant subsequently in any form will not be entertained by the Commission under any circumstances unless specifically called for. Applicant should be careful in filling-up the application form and submission. If any lapse is detected during the scrutiny/verification of certificates, the candidature will be rejected even though he/she comes through the final stage of recruitment process or even at a later stage.
- 5) Before uploading/submission of application form, the applicant 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.
- 6) The Commission will not make any corrections in the application form submitted by the applicant.
- 7) Applicant must click on Save & Pay Button after filling and preview of the application. Otherwise the application particulars will not be saved in the database.
- 8) Hand written/ Typed/ Photostat copies/ outside printed Application Form will not be entertained. The Commission will not be held responsible for the applications submitted in any other mode.
- 9) For any Technical problems related to Online submission and downloading of HallTickets please contact 040-23542185 or 040-23542187 (Call Time: 10.30 A.M to 1.00 P.M & 1.30 P.M to 5.00 P.M on working days) or mail to helpdesk@tspsc.gov.in.

PARA- IV GENERAL PROVISIONS

- 1) The applications received online in the prescribed proforma within the time shall only be considered.
- 2) Applicant must upload his/her scanned recent pass port size photo and signature in .jpeg format.
- 3) The applicant should not furnish any particulars that are false, tampered, fabricated or suppress any material information while submitting online application.
- 4) All the essential certificates issued by the competent authority of Telangana State shall be kept with the applicants at the time of submitting the application.
- 5) The required original certificates should be submitted at the time of verification of certificates or whenever called for. Failure to produce the required certificates will lead to disqualification.
- 6) **Important:** –The claim of the applicants with regard to the date of birth, educational qualifications and community etc., are accepted provisionally on the information furnished by them in their application form and is subject to verification and satisfaction of the Commission. Mere admission to any test or inclusion of the name of an applicant in a Merit List will not confer on the applicant any right for appointment. The candidature is therefore, provisional at all stages and the Commission reserves the right to reject candidature at any stage of the selection even after declaration of results, if any mistake/wrong information is noticed at a later date.
- 7) The applicants should be willing to serve anywhere in Telangana State.
- 8) **NOTE ON UTILISING EDIT OPTION BY CANDIDATES:**

The applicant should follow the TSPSC website regularly to utilize the edit option if given by the Commission at any point of time. No separate advertisement / notification will be issued in any news paper. No separate individual intimation shall be given.

9) **Invalidation of OMR Answer Sheet: -**

- a) If any applicant fails to bubble or wrongly bubble the Question Booklet Number, Hall Ticket Number in the OMR Answer Sheet, such Answer Sheets are invariably invalidated as they are valued by Optical Mark Reader. This stipulation is to avoid any sort of human interface in evaluation of the Scripts.
- b) Tampering of OMR answer sheet by using whitener, eraser, blade and chalk powder etc., and also tampering of barcode by any means leads to invalidation.
- c) No request for reconsideration of such rejected/invalidated cases will be entertained.

10) **A) The following certificates / documents must be submitted by the candidates at the time of verification of certificates.**

- i) PDF Application form
- ii) Hall Ticket.
- iii) Aadhar Card /Voter ID / Pass Port / Driving License / Service ID Cards with (Photograph issued by Central/State/PSU/Public Limited Companies) / Passbook with (photograph by Bank / Post Office) / PAN Card.
- iv) Proof of Educational Qualifications.
- v) S.S.C / CBSE / ICSE (For Date of Birth) vi) School Study Certificate (1st to 7th Class)
- vii) Certificate of Residence (where the Candidate has not studied in Educational Institution) (1st to 7th Class period) obtained from competent authority of Telangana Government.
- viii) Declaration by the Unemployed (For claiming exemption from payment of exam fee).
- ix) No Objection Certificate from Employer (even if employed at any later stage of recruitment).
- x) Service Certificate (If any employee claimed Age relaxation).
- xi) Certificate claiming sports reservation. xii) Certificate claiming Ex-servicemen for age relaxation. xiii) Community Certificate for BCs, SCs & STs (Issued in the name of candidate with Father Name is only acceptable.) obtained from competent authority of Telangana Government. xiv) Non-Creamy Layer Certificate for BCs as per Form- VIIB vide G.O. Ms. No. 34 BC Welfare (OP) Department Dt.08/10/2015 and G.O. Ms. No. 20 BC Welfare (OP) Department Dt.31/10/2017 (Certificate issued in the name of candidate as S/o OR D/o is only acceptable.) obtained from competent authority of Telangana Government. xv) Income certificate for the Financial Year prior to the year of application issued by the competent authority of Telangana government for claiming EWS reservation.
- xvi) In case of PH Candidates, Visually Handicapped / Hearing Disability & Hearing Impairment / Orthopedically Handicapped / Multiple disabilities, certificates should be obtained from Competent Medical Authority in SADAREM format relevant to them.
- xvii) Any other certificate required.

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

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

Note:-The Certificate formats are available on Commission's website <https://www.tspsc.gov.in/certificateformats.jsp>.

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 and as per Rule 6 of TSPSC Rules of Procedure.
2. Unfilled and Non-Joining vacancies will be Carried Forward to next recruitment.

3. This Recruitment is entrusted to TSPSC along with Finance Clearance vide G.O.Ms.No.103 Finance (HRM.VII) Department, Dt. 01/07/2022.
4. **Recruitment:-** The Recruitment will be processed as per this Notification and also as per the Rules and Instructions issued by the Government and also as decided by the Commission from time to time in terms of respective Special Rules/Adhoc Rules governing the Recruitment vide G.O.Ms. No. 28 Irrigation and CAD (Service-III) Department, Dated. 05/09/2022, G.O. Ms. No. 186 General Administration (SPF.II) Department, Dt. 04/08/2021 and as per Government Orders issued from time to time, and other related G.Os, Rules etc., applicable in this regard.
5. **Rules:** All are informed that the various conditions and criterion prescribed herein are governed by the General Rules of existing State and Subordinate Service Rules, read with the relevant Special Rules applicable to any particular service in the departments. Any guidelines or clarification is based on the said Rules, and, in case of any necessity, any matter will be processed as per the relevant General and Special Rules in force.
6. **Constitutional Provisions:-** The Commission is empowered under the provisions of Article 315 and 320 of the Constitution of India read with relevant laws, rules, regulations and executive instructions and all other enabling legal provisions in this regard to conduct examination for appointment to the posts notified herein, duly following the principle of order of merit as per **Rule 3** of the TSPSC Rules of Procedure read with reference to relevant statutory provisions and ensuring that the whole recruitment and selection process is carried out with utmost regard to maintain secrecy and confidentiality so as to ensure that the principle of merit is followed.
7. **State Cadre and Multi Zonal Post:-**
 - a) **For Post Code No. 01:-** The post is classified as a State Cadre Post, hence reservation for Local Candidates is not applicable.
 - b) **For Post Code. No's. 02 to 05:** The posts are classified as Multi zonal posts, local reservation is applicable as per G.O.Ms.No.124, General Administration (SPF-MC), Department, Dated 30-08-2018.
8. **Local:-**The Local Reservations shall be followed as per the Telangana Public Employment (Organization of Local Cadres and Regulation of Direct Recruitment) Order, 2018, G.O.Ms.No.124, General Administration (SPF-MC), Department, Dated 30-08-2018 as amended vide G.O.Ms. No. 128, G.A. (SPF-I) Dept., Dated: 30/06/2021 and other orders issued by the Government of Telangana from time to time and other related G.Os, Rules etc., applicable.
9. **Employee Details:-** The persons already in Government Service/ Autonomous bodies/ Government aided institutions etc., whether in permanent or temporary capacity or as work charged employees are required to inform in writing to the Head of Office / Department, that they have applied for this recruitment, as the case may be and required to submit the "No Objection Certificate" from the Head of Office / Department concerned to the Commission as and when required to do so.

The persons who are employed after submission of application or at any later stage for this recruitment should also submit "No Objection Certificate" from the Head of Office / Department concerned to the Commission as and when required to do so.
10. **A) Penal Action:-** The Commission is also empowered to invoke the penal provisions of the T.S. Public Examinations (Prevention of Malpractices and Unfair means) Act, 1997 (Act No.25/1997) for matters connected therewith or incidental thereto and as per the Rules of Procedure of TSPSC published in Telangana Gazette No: 60 dated 28/12/2015 in respect of this Notification.

B) Disqualification for appointment: A candidate shall be disqualified at any stage as per Rule-12(4) of Telangana State and Subordinate Service Rules.
- 11) **Community:** (a) The candidates belonging to SC & ST are required to produce Community Certificate issued by the competent authority (obtained from Government of Telangana State) in terms of G.O.Ms No. 58, SW (J) Dept., dt: 12/5/97 read with G.O. Ms. No. 5 Scheduled Castes Development (POA.A2) Dept., dt. 08/08/2014, G.O. Ms. No. 11 Scheduled Castes Development (POA.A2) Dept., dt. 17/09/2014 and G.O. Ms. No. 2 Scheduled Castes Development (POA.A2) Dept., dt. 22/01/2015. As per Rule-2(29) of T.S. State and Subordinate Service Rules. Explanation: No person who professes a religion different from Hinduism, the Sikh or Buddhism shall be deemed to be as member of a Scheduled Caste. (b)The candidates belonging to Backward Classes are required to produce Community Certificate (BC-A, BC-B, BC-C, BC-D & BC-E) issued by the Competent Authority in the State of Telangana obtained through Mee-Seva vide G.O. Ms. No. 16 BCW (OP) Dept., Dt. 11/03/2015. (c) Income Certificate for claiming EWS

Reservation issued by the Tahsildar (Government of Telangana) vide G.O. Ms. No. 244 General Administration (Ser.D) Department, Dt. 24/08/2021 and orders and instructions issued by the Government from time to time. 12) **Reservation**: -

- (i) The rule of reservation is applicable in terms of General Rule 22 & 22 (A) of Telangana State and Subordinate Service Rules.
- (ii) Reservation to Disabled persons is subject to the Special Rules/Adhoc Rules governing the posts. The extent of Disability will be decided by the State Appellate Medical Authorities.
- (iii) If eligible disabled women candidates of VH(W) / HH(W) / OH(W) / MH(W) category are not available in the initial recruitment, the same shall be filled up by the eligible Male candidates with same category of disability respectively as per G.O.MS. No. 96 General Administration (Ser.D) Department, Dt. 22/07/2019. Hence, eligible male candidates of VH/ HH/ OH/ MH disabled category can also apply for the posts meant for Women categories.
- (iv) For Carry Forward PH vacancies, if eligible disabled candidates of that particular category are not available, the same shall be filled up by the method of interchanging as per G.O.MS. No. 96 General Administration (Ser.D) Department, Dt. 22/07/2019. Hence, candidates of all the disabled categories can apply.
- (v) Reservation to BC-E group as per G.O. Ms. No. 23 Backward Classes Welfare (C.2) Department, Dt. 07/07/2007, will be subject to the adjudication of the litigation before the Honorable Courts including final orders in Civil Appeal No: (a) 2628-2637 of 2010 in SLP. No. 7388-97 of 2010, dated. 25/03/2010 and orders from the Government.
- (vi) The reservation to Meritorious Sports Person is applicable as per the amendments made to State and Subordinate Service Rules as per G.O.Ms.No.107, General Administration (Ser.D) Dept., Dt. 27-07-2018 that is in Rule-2, for sub-Rule (20) and in Rule-22 (i) in sub-Rule (2), for Class-D. In implementing the reservation to Meritorious Sports Person as per G.O. Ms. No.05 YAT&C(Sports) Department, Dt. 14/05/2018, or as may be revised by the Government from time to time shall be followed.
- (vii) **Economically Weaker Sections:-** The EWS reservation is applicable as per G.O. Ms. No. 243 & 244 GA (SER.D) Dept., Dt. 24/08/2021.
- (viii) As per G.O.Ms.No.130, General Administration (Ser.D) Department, Dt.09.11.2022, enhancing the reservations for Scheduled Tribes from 6% to 10% read with G.O.Ms.No.135, General Administration (Ser.D) Department, Dt.23.11.2022.

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

PARA-VI:

(1) Local Reservation (95%) is applicable as per Para-8 of G.O.Ms.No.124 General Administration (SPF-MC) Department, dated :30.08.2018).

(2) **Local Candidate as per Para-7 of G.O.Ms.No.124 General Administration (SPF-MC) Department, Dated :30.08.2018:-**

“(1) A candidate for direct recruitment to any post shall be regarded as a local candidate in relation to a local area,-

(a) in cases where a minimum educational qualification has been prescribed for recruitment to the posts,-

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

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

(b) In cases where no minimum educational qualifications has been prescribed for recruitment to the post, if he has resided in that local area for a period of not less than four years immediately

preceding the date on which the post is notified for recruitment. Explanations:- For the purpose of this paragraph,-

- (i) 'educational institution' means a University or any educational institution recognized by the State Government, a University or other competent authority;
- (ii) relevant qualifying examination in relation to a post means,-
 - (a) the examination, a pass in which is the minimum educational qualification prescribed for the post;
 - (b) the Seventh Class examination or an examination declared by the State Government to be equivalent to the Seventh Class examination; whichever is lower;
- (iii) in reckoning the consecutive academic years during which a candidate has studied, any period of interruption of his study by reason of his failure to pass any examination shall be disregarded;
- (iv) the question, whether any candidate for direct recruitment to any post has resided in any local area shall be determined with reference to the places where the candidate actually resided and not with reference to the residence of his parents or other guardian.

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

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

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

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

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

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

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

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

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

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

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

(c) In cases where Visually Handicapped and Hearing Handicapped persons studied in the special schools meant for them, the native place of the parents of such Visually Handicapped and Hearing Handicapped persons."

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

Multi Zone- I	Asifabad-Kumrambheem, Mancherial, Peddapalli, Jayashankar-Bhupalapalli-, Mulugu Districts
	Adilabad, Nirmal, Nizamabad, Jagityal Districts
	Karimnagar, Sircilla-Rajanna, Siddipet, Medak, Kamareddy Districts
	Kothagudem- Bhadradri, Khammam, Mahabubabad, Hanumakonda (Warangal Urban), Warangal (Warangal Rural) Districts
Multi Zone- II	Suryapet, Nalgonda, Yadadri- Bhongir, Jangaon Districts
	Medchal-Malkajgiri, Hyderabad, Ranga Reddy, Sanga Reddy, Vikarabad Districts

Mahaboobnagar, Narayanpet, Jogulamba-Gadwal, Wanaparthy, Nagarkurnool Districts

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

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

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

PARA-IX: PROCEDURE OF SELECTION:

- 1) **Pattern of Examination** will be as per G.O. Ms. No. 55 General Administration (Ser.A) Department, Dt. 25/04/2022.
- 2) The Selection of Candidates for appointment to the posts will be made by Written Examination (Objective Type) by CBRT/ OMR Based and the Selection for the posts will be based on marks secured in the written examination.
- 3) Those candidates who qualify in the Written Examination in order of merit will be called for verification of Certificates, Community and Category wise for the vacancies available as required. The qualifying marks for selection of the candidates belonging to: OC, Sports men & EWS – not less than 40%, BCs - not less than 35% SCs, STs and PH – not less than 30%.
N.B.: Mere securing minimum qualifying marks does not vest any right in a candidate for being considered for selection
- 4) In the event of SC and ST candidates not coming up for selection with the minimum marks prescribed above for selection, their selection shall be considered on the basis of marks with reference to their performance in the written examination irrespective of the marks secured.
- 5) The appearance in all the paper/papers at the Written Examination is compulsory. Absence in any of the paper/papers will automatically render his/her candidature for disqualification.
- 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 **original** certificates and if the particulars furnished by him / her in the Application do not tally with the Original documents produced him / her, then his / her candidature will be rejected/disqualified without any further correspondence. Those candidates who are called for verification of certificates should furnish their order of preference of Post, Multi-Zones by exercising WebOptions and submit at the time of verification of certificates, which are final, failing which his/her candidature shall not be considered for further selection process. The selections will be confined only to the web

options exercised by the candidates. Under no circumstances he/she will be considered for the posts /places where preference was not indicated.

- 7) The candidates will be selected and allotted to Multi-Zone as per their merit and order of Preference (**web-options**) against the vacancies available.
- 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-X: DEBARMENT:

- a) Candidates should make sure of their eligibility to the posts 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 from appearing for any of the examinations conducted by the Commission, and for summarily rejection of candidature for this recruitment.
- b) The Commission is vested with the constitutional duty of conducting recruitment and selection as per rules duly maintaining utmost secrecy and confidentiality in this process and any attempt by anyone causing or likely to cause breach of this constitutional duty in such manner or by such action as to violate or likely to violate the fair practices followed and ensured by the Commission will be sufficient cause for rendering such questionable means as ground for debarment and penal consequences as per law and rules and as may be decided by the Commission.
- c) Any candidate is or has been found impersonating 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 any Public Service Commission in the country.
- d) If he/she himself/herself or through relations or friends or any others has canvassed or endeavored to enlist for his candidature extraneous support, whether from official or nonofficial sources for appointment to any State Service or Subordinate Service shall be disqualified.
- e) The applicants are not allowed to bring any Electronic devices or Gadgets such as Smart / Mobile Phones, Calculators, Tablets, iPad, Bluetooth, Pagers, Programmable Devices or Storage Media like Pen-drive, Smart Watches, Camera etc., or any other equipment or related accessories either in working or switched off mode capable of being used as a communication device during the examination. Loaning and interchanging of articles among the applicants is not permitted in the examination hall and any form of malpractice will not be permitted in the exam hall and applicants are advised not to bring any of the banned items including mobile phones to the venue of the examination, as arrangement for safe – keeping cannot be assured.
- f) Any infringement / unfair means of the above instructions as per Act No. 25/1997 shall entail disciplinary action published in State Gazette No. 35, Part–IV-B Extraordinary Dt. 21/08/1997 (as adapted by the Telangana Adaptation of Laws Order, 2016) if noticed, at any stage of the Recruitment shall be punishable with imprisonment for a term which shall not be less than three years but which may extend upto seven years and with fine which shall not be less than Rupees Five Thousand, but which may extend upto Rupees One Lakh.

PARA-XI:- (A) Please read the following Annexures appended to the Notification before filling the application form.

Annexure-I	Breakup of Vacancies
Annexure-II	Payment gateway
Annexure-III	Scheme and Syllabus
Annexure-IV	Instruction to the Candidates
Annexure-V	List of Communities
Annexure-VI	List of the recognized sports

(B) MEMORANDUM OF MARKS:- After Publication of results, the marks list (total marks) of the successful candidates will be displayed on the Commission's Website. However, Memorandum of Marks can be obtained after one month from the date of declaration of selection list in TSPSC website on payment of Rs.200/- (Rupees Two Hundred Only) through IPO/DD in favour of the Secretary, T.S. Public Service Commission, Hyderabad, for a period of Three Months only. Rejected, Invalid, disqualified, ineligible candidates will not be issued any Memorandum of Marks and fees paid by such candidates, if any, will be forfeited to

Government account, without any correspondence in this regard. Requests for memorandum of marks, will not be entertained until the recruitment process is finalized.

PARA XII: SPECIAL INSTRUCTIONS TO CANDIDATES:

Candidates are directed to follow the Commission's Website (<https://www.tspsc.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/ Results etc. Candidates may note that individual communication is not possible. Hence, they must regularly visit the TSPSC website for updates such as Edit option, Schedule of Examination and Hall Tickets, Merit List, List of candidates shortlisted for Certificate Verification, schedule of certificate verification / Medical board, etc.

Candidates are advised to go through the Instructions to Candidates enclosed to this Notification at Annexure-IV.

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

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

HYDERABAD

Sd/- DATE: 29/11/2022

SECRETARY

ANNEXURE – I

BREAK-UP OF VACANCY POSITION FOR VARIOUS GAZETTED CATEGORIES OF POSTS IN GROUND WATER DEPARTMENT

(GENERAL RECRUITMENT)

FOR PC. NO. 01:- ASSISTANT HYDROMETEOROLOGIST IN GROUND WATER DEPARTMENT

[illegible]

NOTE: Single Solitary Post:- The sanctioned strength of the cadre is only one (1). Hence, as per Rule-22(J) the post is notified as OC(General).

FOR PC. NO. 02:- ASSISTANT CHEMIST IN GROUND WATER DEPARTMENT

[illegible]

TOTAL	-	02	-	-	-	-	-	-	-	-	-	-	-	-	-	02	-	-	-	-	-	-	-	04	04
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FOR PC. NO. 03:- ASSISTANT GEOPHYSICIST IN GROUND WATER DEPARTMENT

MULTI ZONE	OC		EWS		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		PH		SPORTS		TOTAL		GRAND TOTAL
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
MZ-I	01	01	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	01	02	03
MZ-II	01	01	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	01	02	03
TOTAL	02	02	-	-	-	-	-	-	-	-	-	-	-	-	-	02	-	-	-	-	-	-	02	04	06

FOR PC. NO. 04:- ASSISTANT HYDROGEOLOGIST IN GROUND WATER DEPARTMENT

MULTI ZONE	OC		EWS		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		VH		HH		SPORTS		TOTAL		GRAND TOTAL
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
MZ-I	02	01	-	-	-	01	-	-	-	-	-	-	-	-	01	01	-	-	-	01	-	-	-	-	03	04	07
MZ-II	02	01	-	-	-	01	-	-	-	-	-	-	-	-	01	01	-	01	-	01	01 [CF]	-	-	-	04	05	09
TOTAL	04	02	-	-	-	02	-	-	-	-	-	-	-	-	02	02	-	01	-	02	01	-	-	-	07	09	16

ANNEXURE-II

LIST OF BANKS FOR MAKING ONLINE PAYMENT

Sl. No.	Name of the Bank
1	
2	Andhra Pragathi Grameena Bank
3	A U Small Finance Bank
4	Bandhan Bank
5	Bank of Bahrain and Kuwait
6	Bank of Baroda
7	Bank of India
8	Bank of Maharashtra
9	Bassien Catholic Coop Bank
10	Canara Bank
11	
12	Capital Small Finance Bank
13	Catholic Syrian Bank
14	Central Bank of India
15	City Union Bank
16	Cosmos Bank
17	DCB Bank
18	Deutsche Bank
19	Dhanlakshmi Bank
20	
21	
22	Digibank by DBS
23	Equitas Small Finance Bank
24	ESAF Small Finance Bank Federal Bank
25	
26	Fincare Bank
27	Gujarat State Co-operative Bank Limited
28	HDFC Bank
29	HSBC Retail Net Banking
30	ICICI Bank
31	IDBI Bank
32	IDFC FIRST Bank
33	Indian Bank
34	Indian Overseas Bank
35	Indus-Ind Bank
36	Jammu & Kashmir Bank
37	
38	Jana Small Finance Bank
39	Janata Sahakari Bank Ltd Pune

Sl. No.	Name of the Bank
35	
36	Kalyan Janata Sahakari Bank
37	Karnataka Bank Ltd
38	Karnataka Gramin Bank
39	Karnataka Vikas Grameena Bank
40	Karur Vysya Bank
41	Kotak Bank
42	Laxmi Vilas Bank
43	Maharashtra Gramin Bank
44	Mehsana urban Co-op Bank
45	
46	NKGSB Co-op Bank
47	North East Small Finance Bank Ltd
48	Nutan Nagarik Sahakari Bank Limited
49	Punjab & Sind Bank
50	Punjab National Bank
51	RBL Bank Limited
52	Saraswat Bank
53	SBM Bank India
54	
55	Shivalik Mercantile Cooperative Bank Ltd
56	South Indian Bank
57	State Bank of India
58	SVC Co-operative Bank Ltd
59	
60	Tamil Nadu State Co-operative Bank
61	Tamilnad Mercantile Bank Ltd.
62	The Kalupur Commercial CoOperative Bank
63	The Surat People's Co-operative Bank Limited
64	The Sutex Co-op Bank Ltd
65	T J S B Bank
66	UCO Bank
67	
68	Union Bank of India
69	Utkarsh Small Finance Bank
70	Varachha Co-operative Bank Limited
71	YES Bank Ltd
72	
73	Zoroastrian Co-Operative Bank Ltd

ANNEXURE-III

**SCHEME AND SYLLABUS FOR VARIOUS GAZETTED CATEGORIES OF POSTS IN
GROUND WATER DEPARTMENT**

**FOR PC. NO. 01:- SCHEME AND SYLLABUS FOR THE POST OF ASSISTANT
HYDROMETEOROLOGIST IN GROUND WATER DEPARTMENT**

SCHEME OF EXAMINATION

Written Examination (Objective Type)	No.of Questions	Duration (Minutes)	Maximum Marks
Paper-I: General Studies And General Abilities	150	150	150
Paper-II: CONCERNED SUBJECT	150	150	300
Total			450

Name of the Papers	Language of Examination
Paper-I: General Studies and General Abilities	Bilingual i.e.,English and Telugu
Paper-II: CONCERNED SUBJECT	English Only

SYLLABUS

Paper-I: GENERAL STUDIES AND GENERAL ABILITIES

1. Current affairs – Regional, National and International.
2. International Relations and Events.
3. General Science; India’s Achievements in Science and Technology.
4. Environmental issues; Disaster Management- Prevention and Mitigation Strategies.
5. Economic and Social Development of India and Telangana.
6. Physical, Social and Economic Geography of India.
7. Physical, Social and Economic Geography and Demography of Telangana.
8. Socio-economic, Political and Cultural History of Modern India with special emphasis on Indian National Movement.
9. Socio-economic, Political and Cultural History of Telangana with special emphasis on Telangana Statehood Movement and formation of Telangana state.
10. Indian Constitution; Indian Political System; Governance and Public Policy.
11. Social Exclusion; Rights issues such as Gender, Caste, Tribe, Disability etc. and inclusive policies.
12. Society, Culture, Heritage, Arts and Literature of Telangana.
13. Policies of Telangana State.
14. Logical Reasoning; Analytical Ability and Data Interpretation.
15. Basic English. (10th Class Standard)

PAPER-II COCERNED SUBJECT

Atmospheric Physics and Thermo Dynamics

The atmosphere- Composition of the atmosphere- major components- carbon dioxide, water vapour, aerosols, ozone and ozone depletion. Vertical thermal structure of the atmosphereScale height, Troposphere, Stratosphere, Mesosphere, Ionosphere, Thermosphere and Exosphere.

Thermodynamics: Gas laws, Virtual temperature, the Hydrostatic equation, Geopotential, Hypsometric equation. The first law of Thermodynamics- joules law, Specific heat enthalpy. Adiabatic processes –concept of an air parcel, the dry adiabatic lapse rate, potential temperature, thermodynamic diagrams. Water vapour in air – moisture parameters, latent heat, saturated adiabatic and pseudo adiabatic processes, saturated adiabatic lapse rate. Static stability-unsaturated air, saturated air, conditional and convective instability. The second law of thermodynamics – entropy, the Clausius and Clapeyron equation

Weather and climate concepts-World climate system - climate of the hemispheres. Global distribution of temperature, precipitation, pressure and winds - Circulation pattern during winter and summer seasons. Jet streams. Monsoons: Asia, Australia, E. Africa and North America; Systems of climatic classification - Koppen - Thornthwaite. Climate change on different time scales-decadal centuries and millennia.Climate change Extreme weather events, The Measurement of Climate Change, Global warming. Natural Disaster events in India

Radiation: The spectrum of radiation – Black body radiation- Planck function, Wien's displacement law, Stefan Boltzmann law, radiative properties of nonblack bodies, Kirchhoff's law, greenhouse effect. Scattering and absorption by air molecules and particles, Atmospheric windows and radiative transfer in atmosphere.

Clouds and precipitation: Cloud classification, cloud condensation nuclei, curvature and solute effects, and growth of cloud droplets by condensation, collision – coalescence.

Principles of Solar Radiation and Collection: Non-renewable energy resources – Principles of power generation and transmission. A model of conventional thermal power plant. Advantages and disadvantages of conventional power plants. Role and potential of new and renewable sources, the solar energy option, environmental impact of solar power, physics of the sun, the solar constant, solar radiation on tilted surface, instruments for measuring solar radiation and sun shine, solar radiation data

Dynamics of the Atmosphere

Introduction to Partial differential equations – Definitions; Examples – Linear equations, Nonlinear equations, Linear systems, Nonlinear systems; Strategies for studying PDE – well posed problems, classical solutions, weak solutions and regularity, Typical difficulties Transport equation – Initial value problem, Nonhomogeneous problem Laplace 's equation – Physical interpretation.

Inertial and Non Inertial frames- Fundamental Forces-Pressure Gradient Force, Gravitational Force, Friction or Viscous Force. Apparent forces- Centrifugal Force, Coriolis force, Effective Gravity. Momentum Equations-Cartesian Coordinate System, Spherical–Polar coordinate system. Scale analysis of momentum equations. Hydrostatic approximation. Balanced motion-Geostrophic Wind, Gradient wind, Thermal Wind. Continuity equation – Horizontal divergence, Vertical motion. Isobaric coordinate system – Transformation of momentum & continuity equations. Rossby, Richardson, Reynolds and Froude numbers

Kinematics of the pressure and Wind fields: Characteristic curves - General expressions for their velocity and acceleration – Movement of troughs, ridges and pressure centres, Intensification and Weakening, deepening and Filling of surface pressure systems, Relation between streamlines and trajectories. Isotachs and contour analysis; tilt & slope of pressure/weather systems with height. Trajectories in moving cyclones and anticyclones.

Waves

Fundamentals of Waves -Transverse wave propagation along a stretched string, general solution of wave equation and its significance, modes of vibration of stretched string clamped at ends, overtones, energy transport, transverse impedance. Longitudinal vibrations in bars- wave equation and its general solution.

Wave motion in the Atmosphere: Linearized equations, vertical sound waves, horizontal sound waves and internal gravity waves, surface gravity waves, inertial gravity waves, inertial oscillations, Rossby Waves, Gravity waves, the geostrophic adjustment process.Geostrophic Scaling, The Planetary, Geostrophic Equations, The Shallow Water Quasi Geotropic Equations, The Continuously Stratified Quasi Geostrophic System, Quasi geostrophy and Ertel potential vorticity, Energetics of Quasi Geostrophy, Rossby Waves, Rossby Waves in Stratified Quasi Geostrophic Flow,Barotropic and Baroclinic Instability, Kelvin Helmholtz Instability.

Hydrometeorology

Hydrological cycle: Understanding the importance of Water and as the subject of Observation, Hydrological information systems and its components. Uses of water resources Information and types of water resources.

Observations: Rainfall observations and units. Design of Network. Framework for network analysis and redesign. Optimum Density of stations for a network. Different types of Rain gauge: Manual/non recording, recording.

Rainfall analysis: Point rainfall, Concept of basin and catchment, major river basins in India. Estimation of point rainfall at ungauged point, generation of grid point data from point rainfall. Estimation of average rainfall over basin/geographical areas.

Hydro meteorological disasters: Definition of flood, Types of floods (seasonal, flash, urban). Causes of flood. Droughts, types of drought. Various indices for monitoring drought. Drought monitoring and prediction practices at India Meteorological Department., GLOF, cloudburst, landslides etc.

Rainfall monitoring: Rainfall Normal, Rainfall monitoring and Operational Rainfall Statistics.

Statistics

Introduction - The purpose of statistics, Population and sample, Censuses and surveys, Descriptive statistics and inductive statistics, applications. Statistical variables - qualitative and quantitative, discrete and continuous variables.

Description of data patterns – centre, spread, shape, and gaps & outliers, Histograms and bar charts, difference between bar charts and Histograms, various plots (Dot plots, Stem plots, Box plots, Cumulative plots, Scatterplots), Tabular displays (one -way and two-way tables). **Measures of central tendency** – Mean, median, mode quartile, decile, and percentile, Standard Score (z-Score).

Variability - Range, Interquartile Range (IQR), mean deviation, quartile deviation, Sums of squares, Variance, Standard Deviation.

Basic probability concepts – events and event space, random variables, definition of probability, joint and conditional probabilities, odds, expectation, Bayesian theorem. Estimation and Hypothesis Testing, Statistical Significance and Confidence Interval.

Time series analysis – basic concepts linear and non-linear trend, Principles of stochastic processes, Auto-correlation theory, Application of Auto-correlation and auto regressive processes, Spectral analysis, Co-spectral methods, Analysis of variance ANOVA/ MANOVA **FOR**

PC. NO. 02:- SCHEME AND SYLLABUS FOR RECRUITMENT TO THE POST OF ASSISTANT CHEMIST IN GROUND WATER DEPARTMENT

SCHEME OF EXAMINATION

Written Examination (Objective Type)	No.of Questions	Duration (Minutes)	Maximum Marks
Paper-I: General Studies And General Abilities	150	150	150
Paper-II: Concerned Subject	150	150	300
Total			450

Name of the Papers	Language of Examination
Paper-I: General Studies and General Abilities	Bilingual i.e., English and Telugu
Paper-II: Concerned Subject	English Only

SYLLABUS Paper-I: GENERAL STUDIES AND GENERAL ABILITIES

1. Current affairs – Regional, National and International.
2. International Relations and Events.
3. General Science; India’s Achievements in Science and Technology.
4. Environmental issues; Disaster Management- Prevention and Mitigation Strategies.

5. Economic and Social Development of India and Telangana.
6. Physical, Social and Economic Geography of India.
7. Physical, Social and Economic Geography and Demography of Telangana.
8. Socio-economic, Political and Cultural History of Modern India with special emphasis on Indian National Movement.
9. Socio-economic, Political and Cultural History of Telangana with special emphasis on Telangana Statehood Movement and formation of Telangana state.
10. Indian Constitution; Indian Political System; Governance and Public Policy.
11. Social Exclusion; Rights issues such as Gender, Caste, Tribe, Disability etc. and inclusive policies.
12. Society, Culture, Heritage, Arts and Literature of Telangana.
13. Policies of Telangana State.
14. Logical Reasoning; Analytical Ability and Data Interpretation.
15. Basic English. (10th Class Standard)

PAPER-II CONCERNED SUBJECT

Unit-I Inorganic Chemistry:

1. **Atomic structure & Chemical Bonding:** Quantum theory Schrodinger, wave equation, Electronic configuration, Ionic bond, covalent bond, coordinate covalent bond, valence bond theory, molecular orbital theory.
2. **Periodic classification:** (Classical and modern) periodic functions of elements, atomic volume, atomic radius, electronegativity, oxidation states, lattice energy and their applications, General characteristic properties of **S and P block elements**.
3. **Chemistry of 'd & f' block elements:** General characters based on electronic configuration size, Oxidation states, Colour, Magnetic properties, Abilities to form complexes. Comparison of 'd' block elements with 'f' block elements with respect to colour and magnetic properties. Chemistry of **complex compounds, isomerism in complexes**.
4. **General Principles of Metallurgy:** Properties of Metals, Theories of Metallic bond, Manufacture of Pig iron, Methods of steel making, Extraction of Aluminium, Copper, Composition of iron, steel and alloys.

Unit – II Physical Chemistry:

1. **Chemical Kinetics & Chemical Equilibrium:** Concept of reaction rate, Variables affecting. The rates reaction, Units of rate constant, order and molecularity of reaction, Theories of reaction rates i.e., collision theory and Activated Complex theory, integrated rate equations and half lives for Zero, First, second and Third order reactions, Equilibrium, Factors affecting equilibrium, Relation between K_p & K_c , Kinetic theory of gases.
2. **Thermodynamics :** Concept of system surroundings work, Heat, Energy, First law of thermodynamics, Internal energy, Enthalpy, heat capacity, first law for open systems. Second law of thermodynamics, statement, entropy function, calculations of entropy changes. Free energy functions. Calculation of enthalpy and entropy as function of pressure and temperature, Heat effects. Criteria for equilibrium and their application, Gibbs free energy, Gibbs free energy change for spontaneous, non-spontaneous and equilibrium process.
3. **Electro-Chemistry:** Equivalent conductance and its measurement. The independent migration of ions, Kohlrausch's Law, Applications and calculations of Equivalent conductance of weak and strong electrolytes. Inter-ionic attraction theory, Theories of acids and bases, Hydrogen ion concentration and its measurements from E.M.F. Buffer solutions, potentiometric, conductometric & colorimetric titrations.
4. **Solids & Solutions :** Classification of solids based on different binding forces as molecular, ionic, covalent solids and metallic solids, Amorphous and crystalline

solids, Electrical and magnetic properties of solids, Classification of solutions, Concentration units, dilute solutions, Colligative Properties.

Unit –III Organic Chemistry:

1. **Organic reaction mechanism:** Introduction of Organic Chemistry, Nomenclature, Structure and reactivity of organic molecules, Factors affecting Electron density in a band-inductive, mesomeric (resonance) and electromeric effects, hyper conjugation, Dipole moments, acidic and basic strength of organic Compounds.

Modern concepts of organic reaction mechanisms: Addition, substitution and elimination reactions – simple examples and their mechanism. The intermediate carbonium ion formation and its participation in organic reactions.

Stereo Chemistry: Optical and geometric isomerism configuration of saturated molecules, DL and RS configuration of optically active compounds, racemic-mixtures.

2. **Heterocyclic compounds:** Importance of heterocyclic compounds, classification based on the nature of hetero atom. A general and comparative study of Furan pyrole and thiophene Ring transformations. General comparison with benzenoid compounds, Furan, thiophene, pyridine, quinoline, Isoquinoline.
3. **Amines, Amino acids and Proteins:** Classification, Nomenclature, Isolation and their synthesis, Structure and Functions and uses.

Alcohols, Aldehydes, Ketones and carboxylic acids: Classifications, basic structures, Properties and Uses.

Vitamins and hormones: Classification, Functions and their effects.

4. **Chemistry of natural products:**

Alkaloids: Classification, reactions and degradations. Chemical and PhysicoChemical methods for the elucidation of structures-synthesis and structural elucidation of the following alkaloids, atropine, cocaine, quinine, Narcotine, papaverine.

Carbohydrates: Classification, General reactions of monosaccharides configurational studies of glucose, fructose, sucrose and cellulose, Chemistry of carbonyl compounds.

Unit –IV Industrial Chemistry

1. **Separation Methods (Unit Operations):** Basic Concepts of Separation Methods Screening Filtration, Sedimentation, Froth Flotation Distillation, Extraction, Evaporation, absorption and adsorption, Boiling and Condensation. Conveying and Storage of Solids, Liquids & Gases.

Stoichiometry: Introduction, percentage composition, empirical formula and molecular Formula, mole concept, Stoichiometric approach to chemical reactions, significance of Chemical Equation, balancing methods and problems.

2. **Fuels:** Classifications, Advantages, Sources and uses of fuels with examples.

Petroleum processing: Crude oil composition, cracking and refining, petrochemical products.

Coal and Coal Chemicals: Formation, Types & Ranks of Coals, Carbonisation. Composition, properties and applications of Coal Products.

Oils, Soaps and Detergents: Definition, Classification and Composition.

Acid - Alkali Industries: Manufacture of common salt, Soda ash, Caustic soda, Chlorine, Sodium bicarbonate and their Industrial applications. Manufacture of sulphuric acid, Hydrochloric and Nitric acid.

Pulp and Paper Industry: Manufacture of Pulp, pulping methods, types of pulps, effluents from pulp Mills, paper industry, Processing, effluents, environmental concerns and applications.

Polymer Industry: Introduction, nomenclature, classification of polymers, composition, synthesis properties and applications of plastics and rubbers. **Surface Coating Industries:** Paints & varnishes and their applications.

3. **Ceramic Industries:** Types of Ceramic products, Chemical conversions, Manufacture of white waves, Manufacturing of Refractories and their properties, Vitreous Enamels and their applications.

Cement Industries: Raw Materials, Types of cements, Manufacture of Portland cement.

Glass Industries: Raw Materials, Special glasses, Composition and their uses, methods of Manufacture of glass.

4. **Fertilizers:** Synthesis of ammonia, Urea, Calcium ammonium nitrate (CAN), Phosphate rock, Phosphoric acid, Super phosphate, Triple super phosphate, Diammonium phosphate (DAM), Potassium Fertilizers, Mixed fertilizers, Bio fertilizers.

Unit – V Chemistry of Water

1. **Sources of water & Quality:** Sources of contamination of water, Chemical, Physical and Biological characteristics of water, Drinking water standards, standards and effects of contaminated water, water born diseases & problems.
2. **General purification Methods of water:** Sedimentation, Filtration, Coagulation, Distillation & reverse osmosis and **Disinfection**, Types of Disinfection, ideal Disinfectant, Mechanism of Disinfection, Efficiency of Disinfection, **Chlorination**, Types of Chlorination. **Coagulation:** Types of Coagulation, Mechanism, Efficiency of Coagulation.
3. **Water Softening Method:** Heating, Lime-Soda Process, Caustic- Soda Process, Softening with Calgon, Zeolite process, Ion-Exchange process. Municipal Water Conditioning and Industrial effluent Treatment.
4. **Qualitative & Quantitative analysis:**

Qualitative analysis: Classification of anions and cations. Reactions involved in the Separation and identification of anions and cations. Qualitative analysis of Organic compounds.

Quantitative analysis: Volumetric analysis and Gravimetric Analysis

- a. **Volumetric analysis:** Theory of Volumetric analysis Types of reactions, Titration curves w.r.t neutralization, redox, precipitation & Complexometric titrations. Theory of Indicators.
- b. **Gravimetric Analysis:** Theory of gravimetric analysis, Formation of precipitate, conditions or precipitation, Impurities in precipitate. Washing, drying & ignition of precipitates.

Principles and applications of **Chromatographic techniques, UV,IR and NMR.**

FOR PC. NO. 03 to 05:- SCHEME AND SYLLABUS FOR RECRUITMENT TO THE POSTS OF ASSISTANT GEOPHYSICIST, ASSISTANT HYDROGEOLOGIST AND ASSISTANT HYDROLOGIST IN GROUND WATER DEPARTMENT

SCHEME OF EXAMINATION

Written Examination (Objective Type)	No.of Questions	Duration (Minutes)	Maximum Marks
Paper-I: General Studies And General Abilities	150	150	150
Paper-II: Water Resources	150	150	300
Total			450

Name of the Papers	Language of Examination
Paper-I: General Studies and General Abilities	Bilingual i.e., English and Telugu
Paper-II: Water Resources	English Only

SYLLABUS

Paper-I: GENERAL STUDIES AND GENERAL ABILITIES

1. Current affairs – Regional, National and International.
2. International Relations and Events.
3. General Science; India's Achievements in Science and Technology.
4. Environmental issues; Disaster Management- Prevention and Mitigation Strategies.
5. Economic and Social Development of India and Telangana.
6. Physical, Social and Economic Geography of India.
7. Physical, Social and Economic Geography and Demography of Telangana.
8. Socio-economic, Political and Cultural History of Modern India with special emphasis on Indian National Movement.
9. Socio-economic, Political and Cultural History of Telangana with special emphasis on Telangana Statehood Movement and formation of Telangana state.
10. Indian Constitution; Indian Political System; Governance and Public Policy.
11. Social Exclusion; Rights issues such as Gender, Caste, Tribe, Disability etc. and inclusive policies.
12. Society, Culture, Heritage, Arts and Literature of Telangana.
13. Policies of Telangana State.
14. Logical Reasoning; Analytical Ability and Data Interpretation.
15. Basic English. (10th Class Standard)

PAPER-II WATER RESOURCES

Unit-1 General Geology and Mineralogy

Origin, age and interior of earth, earthquakes, volcanoes and mountains, weathering, geological work of rivers, wind, groundwater, glaciers, seas and oceans.

Definition of mineral, Classification of mineral into rock forming and ore forming minerals. Physical and optical properties of minerals, silicate structures, olivine family, feldspars, pyroxenes, amphiboles, micas, chlorides, garnets and quartz family.

Unit-2 Petrology, Structural Geology and Indian Geology

Definition of rock, rock cycle, igneous rocks-forms, textures, structures, origin, classification and types. Sedimentary rocks- mode of formation, structures and textures, classification. Metamorphic rocks- Types and agents of metamorphism, structure and textures of metamorphic rocks – grades and zones of metamorphism. Structural geology- strike and dip, folds, faults, joints and unconformities, recognition of folds in the field and recognition of faults in the field

Indian geology-Standard Geological time scale, Principles of correlation, Physiographical sub-divisions of India. Achaeans, cuddapahs, vindyans, gondwanas, Deccan traps, siwalliks and recent formations.

Unit-3 Groundwater Geophysics

Gravity methods: principles, instruments-survey techniques, Magnetic methods: principles, instruments, and survey techniques, Seismic method; principles, instruments, survey techniques.

Electrical methods: Wenner, Schlumberger, Lee, Dipole-Dipole configurations. Resistivity profiling and instruments. Resistivity sounding, Interpretation techniques. Geoelectrical parameters corresponding to hydrological zones, Application of resistivity in groundwater studies.

Electromagnetic methods: principles, instruments, survey techniques. Induced polarisation methods: principles, relationship between apparent chargeability and apparent resistivity.

EM sounding - profiling-dipole and VLF techniques. Bore hole geophysics: Well logging, basic concepts of logging.

Unit-4 Hydrochemistry

The water molecule, isotopic composition of waters-physical and chemical properties of water, geochemical processes, geochemical classification of waters, Mechanisms controlling the groundwater chemistry.

Chemical dissolved constituents. Sampling of water from rivers, lakes, ponds, open wells, bore wells. Standard laboratory techniques for the analysis. Bacteriological studies. Interpretation of physical and chemical data of water, plotting on maps, Statistical techniques in presenting hydrochemical data.

Unit-5 Environmental Hydrology

Ground water pollution- its sources and classification, Water sanitation- water borne diseases, Groundwater quality problems that originate above and below water table. Utility of water, for drinking, agriculture, industry and recreation. Standards of water- Indian, World Health Organisation,

Control measures of groundwater contamination, prediction of contaminants migration and travel times, problem of fluoride and arsenic. Defluorination-Nalgonda method, Activated carbon method of treatment.

Global threat-Elnino effect -Green House Effect-Ozone layer depletion and its impact on hydrological environment-Global Warming- acid rain- its cause and impact on water environment.

Unit-6 Surface Hydrology

Hydrologic Cycle, Precipitation, Infiltration, run-off, Evaporation & Evapotranspiration, Water Balance Studies, Forecast of climatic Parameters.

The significance of water, Water resources of the earth. Global water budget. Formation of surface water resources; streams, rivers, lakes, swamps, caves, seas and oceans.

Runoff, groundwater runoff, direct runoff, factors affecting runoff. Discharge and discharge measurement, hydrographs: components of hydrograph, base flow separation methods. Unit hydrograph to design flood computation and of inflow to major rivers.

Unit-7 Groundwater Hydrology

Groundwater in Hydrologic cycle, Occurrence of Groundwater: Aquifer, Aquiclude, Aquifuge and Aquitard, Porosity, Effective porosity, Vertical distribution of Groundwater; Zone of aeration, zone of saturation, Division of subsurface water. Specific retention, specific yield, Storage coefficient. Water movement in saturated soils, Darcy's law.

Permeability, Intrinsic permeability. Hydraulic conductivity, Transmissivity, Determination of Hydraulic conductivity.

Groundwater fluctuations: Secular, Seasonal and Short-term fluctuations, Artificial Recharge of Groundwater, salt water intrusion of coastal aquifers, Development of Groundwater in intrusion areas.

Water wells: Dug wells, Bored wells, Driven wells, Jetted wells, Methods for drilling deep wells, Well design, Well completion, Well development, pumping equipment, Protection of wells, Well rehabilitation and Horizontal well.

Unit-8 Hydrologic Modeling

Concepts of modelling, Process of model development, types of Hydrological models: Physical models and Mathematical models. Introduction to Continuous and Discrete models, Dynamic and Static, Lumped parameter and Distributed parameter models, Block-Box model, Conceptual model, Stochastic and Deterministic models

Unit-9 Watershed Management

Watershed: Concept, Characteristics, Size, Shape, Physiography, Climate, Drainage, Land-use, Hydrological parameters. Basic data collection, Integrated Study of Watershed Management. Conditions to develop watershed, types of Watersheds, Integrated studies to develop watersheds. Rain water structures, design and Economic aspects. .

Floods: flood elevation, Flood discharge, flood volume and duration of floods, Flood estimation, causes of flood, factors affecting flood flow, flood flow determination flood control methods, limitations of flood control measures, Flood routing. Watershed and Agricultural Practices, National projects, Appropriate Technology and action plans, Post-operative problems of watersheds.

Unit-10 Remote Sensing and Geographical Information System

Electromagnetic Energy: Laws, Distribution and Interaction, concept of incoming short wave and outgoing long wave radiation: passive and active remote sensing, electromagnetic radiation, spectral reflectance curves. Imaging and non-imaging sensors, resolution. Satellite remote sensing, geo-synchronous and sun-synchronous orbits, IRS-satellites and high resolution satellites. Supervised and unsupervised image classifications. Remote sensing applications for meteorological, hydrological, geological studies and urban planning and management.

Basic concepts of geographical information systems, map projections, geographic coordinate system, transformations, map analysis. Data Acquisition and Data Management, Data Processing, Data Modeling, GIS Analysis and Functions. GIS applications to Environmental and natural resource management, software scenario, functions, standard GIS packages.

ANNEXURE – IV

INSTRUCTIONS TO CANDIDATES:

A) GENERAL INSTRUCTIONS TO CANDIDATES

- 1) Candidates are directed to follow the Commission's Website (<https://www.tspsc.gov.in>) regularly to Know the latest developments regarding the Recruitment, dates of Examination, calling of candidates for verification of Certificates/ Medical Boards, Results etc.
- 2) **EDIT OPTION TO THE CANDIDATES:** The applicants should follow the TSPSC website regularly to utilize the edit option to rectify the mistakes viz., Biodata particulars/Data corrections / Omissions etc., in the application, if the facility is given by the Commission. If the edit option facility is not utilized by the candidates, the TSPSC is not responsible and the data already available is treated as final. After the due date, Data corrections through Online/Paper representations or Corrections on the Nominal Rolls in the examination hall

will not be accepted under any circumstances. No correspondence will be entertained in this matter.

- 3) There will be a common examination for Paper-I i.e., General Studies as decided by the Commission, whenever required.
- 4) The candidates must note that his/her admission to the examination is strictly provisional. The mere fact that an Admission to the examination does not imply that his/her candidature has been finally cleared by the Commission or that the entries made by the candidate in his/her application have been accepted by the Commission as true and correct. The candidates have to be found suitable after verification of original certificates; and other eligibility criteria. The Applicants have to upload his/her scanned recent colour passport photo and signature to the Application Form. Failure to produce the same photograph, if required, at the time of verification, may lead to disqualification.
- 5) The candidates are not allowed to bring any Electronic devices such as Smart / Mobile phones, Calculators, tablets, iPad, Bluetooth, pagers, watches to examination centre. Loaning and interchanging of articles among the candidates is not permitted in the examination hall and any form of malpractice will not be permitted in the exam hall.
- 6) The candidates are expected to behave in an orderly and disciplined manner while writing the examination. If any candidate takes away Answer Sheet of OMR based examination, the candidature will be rejected. In case of impersonation/ disorder/ rowdy behavior during Examination, cases shall be booked in the Police Station concerned, apart from disqualifying his / her candidature.
- 7) Candidates trying to use unfair means shall be disqualified from the selection. No correspondence whatsoever will be entertained from the candidates.
- 8) The Commission is also empowered to invoke the penal provisions of the T.S. Public Examinations (Prevention of Malpractices and Unfair means) Act, 1997 (Act No.25/1997) for matters connected therewith or incidental thereto and as per the Rules of Procedure of TSPSC published in Telangana Gazette No: 60 dated 28/12/2015 in respect of this Notification.
- 9) (i) The candidates who are totally blind are allowed to write the examination with the help of scribe provided by TSPSC and 20 minutes extra time is permitted to them per hour.
 - (ii) Scribe will be provided by TSPSC to those candidates who do not have both the upper limbs for Orthopedically Handicapped. However, no extra time will be granted to them.
 - (iii) Scribe will be provided to the above category of candidates who applied for scribe facility in the online application only.
 - (iv) An extra time of 20 minutes per hour is also permitted for the candidates with locomotor disability and CEREBRAL PALSY where dominant (writing) extremity is affected for the extent slowing the performance of function (**Minimum of 40% impairment**). Scribe is allowed to such candidates also.
 - (v) The scribe should be from an academic discipline other than that of the candidate and the academic qualification of the scribe should be one grade lower than the stipulated eligibility criteria.
 - (vi) The candidate as well as the scribe will have to give a suitable undertaking confirming the rules applicable.

B) INSTRUCTIONS TO CANDIDATES REGARDING OMR BASED EXAMINATION

- 1) The candidates have to report to the examination venue at least 30 minutes before the commencement of examination, to record their Photo Image/thumb impression on Biometric system.
- 2) The candidate should satisfy the Invigilator of his identity with reference to the Signature and Photograph available on the Nominal Roll and Hall Ticket.
- 3) The candidates should go through the instructions given on the cover page of test booklet and OMR Answer Sheet which will be provided to him/her in the examination hall and carefully write his/her Hall Ticket Number, Subject / Paper Code, Question Booklet Number, Name of the Examination Centre etc., on the OMR Answer Sheet. The candidates have to USE BALL POINT PEN (BLUE/BLACK) ONLY to fill up relevant columns on the Answer Sheet including MARKING OF THE ANSWERS. Bubbling by Pencil / Ink Pen / Gel Pen is not permitted in the examination.

- 4) The candidate must write all the relevant columns in the Answer sheet and also encode (bubble) correctly such as Hall Ticket Number, Question Booklet Number and Paper Code on the OMR Answer Sheet carefully and to Sign in the space provided for on Side-1 of the Answer Sheet and ensure the Signature of the Invigilator, etc., on it, failing which the Answer sheet will be rejected. Use of whitener / eraser / chalk-powder etc., is strictly prohibited on the OMR Answer sheet/ Question Paper.
- 5) Candidate should encode the Hall-Ticket Number and Paper Code first carefully on OMR Answer Sheet. After receiving the Question Paper only, candidate should verify and encode Question Booklet Number on the OMR Answer Sheet.
- 6) OMR Answer sheets cannot be replaced under any circumstances in case of wrong bubbling.
- 7) If there is any defect in the Test Booklet or OMR Answer Sheet, please ask the invigilator for replacement immediately.
- 8) The OMR Answer sheets are to be scanned (valued) with Optical Mark Reader. The Digital copy of OMR Answer Sheets will be made available on the Commission's website immediately after completion of the image scanning.
- 9) No candidate should leave the examination hall till expiry of fulltime. After writing the examination the candidate has to handover the OMR Answer sheet to the invigilator in the examination hall. If any candidate takes away the OMR Answer sheet, his/her candidature will be rejected.
- 10) The Commission 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 Commission will invalidate the OMR Answer Sheet and cancel his/ her candidature.

C) INSTRUCTIONS FOR CANDIDATES REGARDING CBRT EXAMINATION

- 1) Candidates shall report at the venue one hour (60 minutes) before the Commencement of Examination as the candidates have to undergo certain procedural formalities required for CBRT examination.
- 2) Date and Time of the Examination are mentioned in the Hall-Ticket
- 3) The examination link with the login screen will already be available on your system. Please inform the invigilator if this is not the case.
- 4) 10 minutes prior to the exam, you'll be prompted to login. Please type the Login ID (H T No.) and the Password (Password for Candidate will be given on exam day) to proceed further.
- 5) Invigilator will announce the password at 09.50 AM and 02.20 PM in cases if Examination is at 10:00 A.M and 2:30 P.M respectively.
- 6) Copying or noting down questions and/or options is not allowed. Severe action will be taken if any candidate is found noting down the questions and/or options.
- 7) After logging in, the following will be displayed on your Computer screen: ➤ Profile Information - Check the details & click on "I Confirm" or "I Deny".
 - Detailed exam instructions - Please read and understand thoroughly.
 - Please click on the "I am ready to Begin" button.
- 8) After reading the instructions, you have to use the mouse to answer the multiplechoice type questions having FOUR alternative answer choices.
- 9) To answer any numerical answer type question, you need to use the virtual numeric key pad and the mouse.
- 10) On the online exam question screen, the timer will display the balance time remaining for the completion of exam.
- 11) The question numbers are color coded and of different shapes based on the process of recording your response:
 - White (Square) - For un-attempted questions.
 - Red (Inverted Pentagon) - For unanswered questions.
 - Green (Pentagon) - For attempted questions.
 - Violet (Circle) - Question marked by candidate for review to be answered later.
 - Violet (Circle with a Tick mark) - Question answered but marked by candidate for review.
- 12) After answering a question, click the SAVE & NEXT button to save your response and move onto the next question.
- 13) Click on Mark for Review & NEXT to mark your question for review, and then go to the next question.

- 14) To clear any answer chosen for a particular question, please click on the CLEAR RESPONSE button.
- 15) A summary of each section, (i.e. questions answered, not answered, marked for review) is available for each section. You have to place the cursor over the section name for this summary.
- 16) In case you wish to view a larger font size, please inform the Invigilator. On the Invigilator's confirmation, click on the font size you wish to select. The font size will be visible on the top.
- 17) You may view INSTRUCTIONS at any point of time during exam, by clicking on the INSTRUCTIONS button on your screen.
- 18) The SUBMIT button will be activated after 150 Minutes. It will continue for an additional 50 Minutes for PH candidates eligible for compensatory time. Please keep checking the timer on your screen.
- 19) In case of automatic or emergency log out, all your attempted questions and their responses will be saved. And also, the exam will start from the time where it had stopped.
- 20) You will be provided a blank sheet for rough work. Do write your Login ID and Password on it. Please ensure that you return it to the invigilator at the end of the exam after tearing ONLY the password from it.
- 21) Please don't touch the key board as your exam ID will get locked. If your ID gets locked, please inform your invigilator who will help in unlocking your ID and then you can continue with the exam.
- 22) Please inform the invigilator in case of any technical issues.
- 23) Please do not talk to or disturb other candidates.
- 24) In case you are carrying articles other than the admit card, photo identity proof and pen, please leave them outside the exam room.
- 25) These are model instructions and candidates have to follow latest instructions issued along with Hall tickets

ANNEXURE-V

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 a Dasari
27. Jaggali
28. Jambuvulu
29. Kolupulvandu, Pambada, Pambanda, Pambala
30. Madasi Kuruva, Madari Kuruva
31. Madiga
32. Madiga Dasu, Mashteen
33. Mahar
34. Mala, Mala Ayawaru
35. Mala Dasari
36. Mala Dasu
37. Mala Hannai
38. Malajangam
39. Mala Masti
40. Mala Sale, Nethani
41. Mala Sanyasi
42. Mang
43. Mang Garodi
44. Manne
45. Mashti
46. Matangi
47. Mehtar
48. Mitha Ayyalvar
49. Mundala
50. Paky, Moti, Thoti
51. Pamidi
52. Panchama, Pariah
53. Relli
54. Samagara
55. Samban
56. Sapru
57. Sindhollu, Chindollu
58. Yatala
59. Valluvan

LIST OF SCHEDULED TRIBES

1. Andh, Sadhu Andh
2. Bagata
3. Bhil
4. Chenchu
5. Gadabas, Bodo Gadaba, Gutob Gadaba, Kallayi Gadaba, Parangi Gadaba, Kathera Gadaba, Kapu Gadaba
6. Gond, Naikpod, Rajgond, Koitur
7. Goudu (in the Agency tracts)
8. Hill Reddis
9. Jatapus
10. Kammara
11. Kattunayakan
12. Kolam, Kolawar
13. Konda Dhoras, Kubi
14. Konda Kapus
15. Kondareddis
16. Kondhs, Kodi, Kodhu, Desaya Kondhs, Dongria Kondhs, Kuttiya Kondhs, Tikiria Kondhs, Yenity Kondhs, Kuvinga
17. Kotia, Benthoriya, Bartika, Dulia, Holya, Sanrona, Sidhopaiko
18. Koya, Doli Koya, Gutta Koya, Kammara Koya, Musara Koya, Oddi Koya, Pattidi Koya, Rajah, Rasha Koya, Lingadhari Koya (ordinary), Kottu Koya, Bhine Koya, Rajkoya
19. Kulia
20. Manna Dhora
21. Mukha Dhora, Nooka Dhora
22. Nayaks (in the Agency tracts)
23. Pardhan
24. Porja, Parangiperja

25. Reddi Dhoras
26. Rona, Rena
27. Savaras, Kapu Savaras, Maliya Savaras, Khutto Savaras
28. Sugalis, Lambadis, Banjara
29. Thoti (in Adilabad, Hyderabad, Karimnagar, Khammam, Mahbubnagar, Medak, Nalgonda, Nizamabad and Warangal districts)
30. Yenadis, Chella Yenadi, Kappala Yenadi, Manchi Yenadi, Reddi Yenadi 31. Yerukulas, Koracha, Dabba Yerukula, Kunchapuri Yerukula, Uppu Yerukula 32. Nakkala, Kurvikaran.

LIST OF SOCIALLY AND EDUCATIONALLY BACKWARD CLASSES

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

STATE LIST OF BCs

(List of Backward Classes of Telangana State)

GROUP-A

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

- 1 Agnikulakshatriya, Palli, 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 *[Asadula / Asadula]
- 54 *[Keuta / Kevuto / Keviti]
- 55 Orphan and Destitute Children who have lost their parents before reaching the age of ten and are destitute; and who have nobody else to take care of them either by law or custom; and also who are admitted into any of the schools or orphanages run by the Government or recognised by the Government.
- 56 Addapuvuru
- 57 Bagothula/ Bhagavathula
- 58 Bail Kammara/ Ghisadi/ Gadiya Lohar
- 59 Enooti/ Yenativallu
- 60 Ganjikuti/ Ganjikutivaru
- 61 Gouda Jetty
- 62 Kakipadagala
- 63 Patamvaru/ Masaiahlu
- 64 Odd/ Od/ Oad
- 65 Sonnayila/ Sannayila/ Sannayollu
- 66 Sri Kshatriya Ramajogi/ Ramajogi/ Ramajogula
- 67 Theracheerala/ Telsoori/ Baikani
- 68 Tholubommalatavaru/ Boppala

GROUP-B
(Vocational Groups)

- 1 *[Achukatlavandlu]
- 2 Aryakshatriya, Chittari, Giniyar, Chitrakara, Nakhas
- 3 Devanga
- 4 Goud [Ediga, Gouda (Gamalla), Kalalee, Gounda, **[*Settibalija of Visakhapatnam, East Godavari, West Godavari and Krishna districts]** and Srisayana (Segidi)]
- 5 Dudekula, Laddaf, Pinjari or Noorbash
- 6 Gandla, Telikula, Devathilakula
- 7 Jandra
- 8 Kummara or Kulala, Salivahana
- 9 Karikalabhakthulu, Kaikolan or Kaikala (Sengundam or Sengunther)
- 10 Karnabhakthulu
- 11 Kuruba or Kuruma
- 12 *[Nagavaddilu]
- 13 Neelakanthi
- 14 Patkar (Khatri)
- 15 Perika (Perika Balija, Puragiri kshatriya)
- 16 Nessi or Kurni
- 17 Padmasali (Sali, Salivan, Pattusali, Senapathulu, Thogata Sali)
- 18 Srisayana (Segidi) (deleted vide. G.O.Ms.No.63, BCW (M1) Dept., Dt.11.12.1996 and added to Sl.No.4 of Group-B)
- 19 Swakulasali
- 20 Thogata, Thogati or Thogataveerakshatriya

- 21 Viswabrahmin (Ausula, Kamsali, Kammari, Kanchari, Vadla or Vadra or Vadrangi and Silpis), Viswakarma
- 22 *[Kunchiti / Vakkaliga / Vakkaligara / Kunchitiga]
- 23 Lodh/ Lodhi/ Lodha (area confined to Hyderabad, Rangareddy, Khammam and Adilabad Districts only)
- 24 Bondili
- 25 Are Marathi, Maratha (Non-Brahmins), Arakalies and Surabhi Natakavallu
- 26 Neeli (included vide. G.O.Ms.No. 43, BCW (C2) Dept., Dt.07.08.2008 by deleting from Group D at Sl.No.22)
- 27 Budubunjala / Bhunjwa / Bhadbhunja (area confined to Hyderabad and Rangareddy Districts only)
- 28 *[Gudia / Gudiya]

GROUP-C

Scheduled Castes converts to Christianity and their progeny

GROUP-D (Other Classes)

- 1 *[Agaru]
- 2 Arekatika, Katika, Are-Suryavamshi
- 3 *[Atagara]
- 4 Bhatraju
- 5 Chippolu (Mera)
- 6 *[Gavara]
- 7 *[Godaba]
- 8 Hatkar
- 9 *[Jakkala]
- 10 Jingar
- 11 *[Kandra]
- 12 Koshti
- 13 Kachi
- 14 Surya Balija (Kalavanthula), Ganika
- 15 Krishnabalija (Dasari, Bukka)
- 16 *[Koppulavelamas]
- 17 Mathura
- 18 Mali (Bare, Barai, Marar and Tamboli)
- 19 Mudiraj, Mutrasi, Tenugollu
- 20 Munnurukapu
- 21 *[Nagavasam (Nagavamsa)]
- 22 Nelli (deleted vide. G.O.Ms.No.43, BCW(C2) Dept., Dt.07.08.2008 and added at Sl.No.26 in Group 'B')
- 23 *[Polinati Velamas of Srikakulam and Visakhapatnam districts]
- 24 Poosala caste (deleted vide. G.O.Ms.No.16, BCW(C2) Dept., Dt.19.02.2009 and included at S.No.52 under Group-A)
- 25 Passi
- 26 Rangarez or Bhavasara Kshatriya
- 27 Sadhuchetty
- 28 Satani (Chattadasrivaishnava)
- 29 Tammali (Non-Brahmins) (Shudra caste) whose traditional occupation is playing musical instruments, vending of flowers and giving assistance in temple service but not Shivarchakars
- 30 *[Turupukapus or Gajulakapus]
- 31 Uppara or Sagara
- 32 Vanjara (Vanjari)
- 33 Yadava (Golla)
- 34 Are, Arevallu and Arollu
- 35 *[Sadara / Sadaru]
- 36 *[Arava]
- 37 Ayyaraka (area confined to Khammam and Warangal Districts only)
- 38 Nagaralu (area confined to Hyderabad and Rangareddy Districts only)
- 39 Aghamudian, Aghamudiar, Agamudivellalar and Agamudimudaliar (including Thuluva Vellalas) (area confined to Hyderabad and Rangareddy Districts only)
- 40 *[Beri Vysya / Beri Chetty]

- 41 *[Atirasa]
- 42 Sondi / Sundi
- 43 Varala
- 44 Sistakaranam
- 45 Lakkamarikapu
- 46 Veerashaiva Lingayat / Lingabalija
- 47 Kurmi
- 48 Aheer/ Aheer Yadav
- 49 Govili/Govlii/ Gouli/Gavli
- 50 Kulla Kadagi/ Kulle Kadigi/ Chittepu
- 51 Sarollu/Soma Vamsha Kshatriya

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

- 1 Achchukattalavandlu, Singali, Singamvallu, Achchupanivallu, Achchukattuvaru, Achukatlavandlu
- 2 Attar Saibulu, Attarollu
- 3 Dhobi Muslim/ Muslim Dhobi/ Dhobi Musalman, Turka Chakla or Turka Sakala, Turaka Chakali, Tulukka Vannan, Tsakalas, Sakalas or Chakalas, Muslim Rajakas
- 4 Faqir, Fhakir Budbudki, Ghanti Fhakir, Ghanta Fhakirlu, Turaka Budbudki, Darvesh, Fakeer
- 5 Garadi Muslim, Garadi Saibulu, Pamulavallu, Kani-Kattuvallu, Garadollu, Garadiga
- 6 Gosangi Muslim, Phakeer Sayebulu
- 7 Guddi Eluguvallu, Elugu Bantuvallu, Musalman Keelu Gurrallavallu
- 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*

- N.B.:1) The above list is for information and subject to confirmation with reference to G.O.Ms.No.58, SW(J) Department, dated 12.05.1997 and time to time orders.
- 2) On account of any reason whatsoever in case of any doubt/ dispute arising in the matter of community status (SC/ST/BC/OC) of any candidate, subject to satisfaction with regard to relevant Rules and Regulations in force the decision of the Commission shall be final in all such cases.

ANNEXURE – VI

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

- (1) FOOTBALL
- (2) HOCKEY
- (3) VOLLEYBALL
- (4) HANDBALL
- (5) BASKET BALL
- (6) TENNIS
- (7) TABLE TENNIS
- (8) SHUTTLE BADMINTON

- (9) KABBADI
- (10) ATHLETICS
- (11) SWIMMING
- (12) GYMNASTICS
- (13) WEIGHTLIFTING
- (14) WRESTLING
- (15) BOXING
- (16) CYCLING
- (17) ROWING
- (18) SHOOTING
- (19) FENCING
- (20) ROLLER SKATING
- (21) SAILING / YATCHING
- (22) ARCHERY
- (23) CRICKET
- (24) CHESS
- (25) KHO-KHO
- (26) JUDO
- (27) TEAKWANDO
- (28) SOFTBALL
- (29) BODY BUILDING (Uniform Services like Police, Excise etc).

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