



**TRIPURA PUBLIC SERVICE COMMISSION  
AGARTALA**

Advt. No.  
09/2024

Online applications are invited from bonafide citizen of India for recruitment of 01(One)(UR) vacant post of Programmer, Group-B, Non-Gazetted under Election Department, in the scale of pay Rs. 37,600/-, (PB-3, Rs.10230 -34,800/-,Cell-1, Level-11) as per Tripura State Pay Matrix-2018(subject to revision by the Government from time to time).

The number of post to be filled up is subject to increase or decrease following requisition of the Department.

**Educational and other qualifications required for direct recruitment:**

**Essential:**

- i)At least MCA/M.Sc. (Computer Science)/M.Sc. (Information Technology) or BE/B.Tech. in Computer Engineering/Information Technology or higher.
- ii)One year experience in Software development along with database handling after acquiring the aforesaid qualification.

**Desirable Qualification:**

Knowledge in Bengali or Kok-borok.

**To apply for the aforementioned post, the applicant must have Permanent Resident Certificate of Tripura (PRTC). This is in pursuance of GA(P&T) Department Notification dated 07-07-2023.**

**Age-18 to 40 years as on 09-12-2024.** Upper Age limit is relaxable by 5 years in case of ST/SC/ PwDs(PH) / Government Employee candidates. Provided that Govt. Employees belonging to ST/SC/ PH category shall not get this relaxation over and above the general relaxation of 5 (five) years available to them.

**The last date of submission of online application is 09-12-2024. (upto 5.30 PM). The application(s) received after the closing date will not be entertained.**

**Syllabus & Selection Procedure:**

The Selection Process consist of 2(two) successive stage:

- 1.Written Examination:-170 marks.
- 2.Interview/Personality Test:-30 marks.

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Sl No	Written Exam	Marks	Duration
1	English	15	180 Minutes (3 hours)
	General Ability and Logical reasoning	15	
	GK & Current Affairs	20	
	<b>Total</b>	<b>50</b>	
	Job Oriented Subject Technical Paper-II	Job oriented Subjects Technical Paper-II(MCQ)	120
2	<b>Viva/Interview</b>	30	
3	<b>Grand Total</b>	200	

a) Candidates will be called for the Personality Test in the following ratio:

No. of vacancies	No. of candidates to be called for interview cum Personality Test (Category wise)
1(one)	5(five) candidates
2(two)	8(eight) candidates
3(three)	3(three) times the number of vacancies.

Candidates scoring marks equal to that of the last candidate, so selected, for the Personality Test will also be called for Personality Test.

b) The candidates who will be found qualified in the Written Examination will be called to appear in the Interview cum Personality Test. In no case shall a candidate be called for interview cum personality test unless he/she appears in the Written Examination.

c) In the list of recommendation, merit position of candidates securing equal marks will be finalized as per their seniority of age. The same procedure is to be followed for preparing waiting List, if there be any.

Further provided that, in the list of recommendation, merit position of candidates securing equal marks in aggregate and also of the same age will be decided on the basis of percentage of marks obtained in the minimum educational qualification prescribed in Recruitment Rules/ Service Rules.

d) Question paper for written examination will be of 170 marks (170 MCQ). Question will be MCQ type carrying 1(one)mark each. There will be negative marking of 0.25 marks for every wrong answer.





- e) The interview cum personality test shall be to assess the personal qualities of a candidate e.g. his intellectual ability, social traits, interest in current affairs, critical power of judgment, variety and depth of interest, ability for leadership moral integrity etc.
- f) The final selection will be made in order of merit and merit list will be prepared by adding the marks obtained in the written examination and Interview cum personality test. If a candidate remains absent in interview cum personality test his/her candidature will not be considered for final merit list.
- (g) Ranks of the candidates are not prepared for the candidates beyond the recommendation list & wait list (if there be any).
- h) Merit list will be prepared as per marks obtained by the candidates in category wise.
- i) Out of 30 marks allocated for interview, some marks to be allocated for Desirable qualification as per Memorandum vide No.F.20(1)/GA(P&T)/2018 dated 02-01-2021 issued by the Govt. of Tripura.

**For detailed syllabus & Selection Procedure (Annexure-I) please visit <https://tpsc.tripura.gov.in>**

**Other Important information:-**

**1. Online Application Portal:**

- (a) Candidates will have to submit application through Online Application Portal only. The Commission will not entertain any hard copy application. Before submission of online application, read carefully the instruction to candidates.
- (b) Link for Online Application Portal will be available on Commission's website from **07/11/2024 to 09/12/2024 (5.30 PM)**. Before applying for the post, an applicant (New user) shall register his/her bio-data particulars through One Time Profile Registration (OTPR) on the Commission's Website viz. [tpsc.tripura.gov.in](https://tpsc.tripura.gov.in) / [tpsconline.in](https://tpsconline.in). Once applicant registers his/her particulars, a User ID is generated and sent to his/her registered mobile number and email ID. Applicants need to apply for the post using the OTPR User ID through the Commission's website.
- (c) Applicants should avoid submitting multiple applications through different registration. However, if due to any unavoidable circumstances, any applicant submits multiple applications then he/she must ensure that the application with latest Application Number is complete in all respect.



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(d) In case of multiple applications, the application with latest Application Number shall only be entertained by the Commission and fee paid against one Application Number shall not be adjusted against any other Application Number.

2. (a) Candidates are not required to upload submit with their respective applications any certificate in support of their claims regarding age, educational qualification, SC/ST etc.

(b) Applicants must be in possession of the prescribed minimum qualification(s) and others for the post on the closing date for submission of application as mentioned in the advertisement. Their admission at all the stages will be purely provisional, subject to their satisfying the prescribed eligibility conditions. Mere issue of admission certificate to the candidate will not imply that his/her candidature has been finally cleared by the Commission.

(c) On scrutiny of documents, if a candidate is found ineligible as per terms and condition of the advertisement (including prescribed recruitment fees), his/her candidature will be rejected. If the application is not routed Through Proper Channel, at the day of interview candidates will have to submit 'No-Objection' certificate failing which his/ her candidature will not be considered for preparation of final merit list. In that No-Objection certificate, it is to be clearly mentioned that your employer has '**No-Objection**' if you are considered for recruitment to the post for which you have applied for.

**(3) Rate of Recruitment Fees:**

(a) **Group-B Non- Gazetted posts:**Rs. 350/- (Rupees three hundred & fifty) for General Candidates and Rs.250/- (Rupees two hundred & fifty) only for ST/SC/ BPL card holders/Physically Handicapped Candidates.

(b) Recruitment fee so deposited, is non-refundable.

(c) If a candidate submits incomplete application in respect of terms & condition of the Advertisement and without requisite recruitment fee, his/her candidature will be rejected.

(4) Decision of the Commission as to the eligibility or otherwise of a candidate at any stage of the selection process shall be final.

(5) Assessment and evaluation of necessary documents done by the Commission shall be final and shall not be open to scrutiny by any external authority.

**(6) The Examination venue shall be closed 10 minutes before the Scheduled Commencement of Examination. No candidate shall be allowed entry into the examination venue after closure of entry. No functionary has any direction in this regard.**






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(7) Candidates are instructed to visit the Commission's website for information regarding steps of recruitment process time to time.

(8) Mobile Phone/Electronic Gadgets etc. are banned in the Campus of the Examination Premises/Interview Premises. Any Phone/Electronic Gadget found in possession of any candidate in the Examination Premises/Interview premises shall be confiscated forthwith and he/she may be debarred from appearing at the Examination/Interview and also for the Examination(s)/Interview to be conducted by the Commission in future Violation of such instruction will be dealt as per Law.

(9) Entry in the Examination hall/Interview Premises with Jacket, Coat, Pull over & this type of garments will not be allowed.

  
30/10/24

(S. Mog, IAS)  
Secretary,

Tripura Public Service Commission.



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**ANNEXURE - A**

**SYLLABUS & SELECTION PROCEDURE**

**SCHEME OF EXAMINATION FOR DIRECT RECRUITMENT TO THE POST OF PROGRAMMER, GROUP-'B' NON GAZETTED UNDER ELECTION DEPARTMENT, GOVERNMENT OF TRIPURA**

The Selection process consist of 2 (two) Successive stage

1. Written Examination
2. Interview/Personality Test

Sl. No	Written Exam		Marks	Duration
1.	General Ability Test Paper - I (MCQ)	English	15	180 Minutes (3 hours)
		General Mental Ability & Logical reasoning	15	
		GK & Current Affairs	20	
	<b>Total</b>	<b>50</b>		
	Job Oriented Subject Technical Paper-II	Job Oriented Subjects Technical Paper-II (MCQ)	120	
2.	<b>Viva/Interview</b>		30	
3.	<b>Grand Total</b>		200	

**Details of the Syllabus:-**

Sl. No.	Subjects	Syllabus	Marks	
1.	General Ability Test Paper	English	English Composition will cover Synonyms, Antonyms, use of common Phrase & Idioms., use of appropriate Prepositions and Articles, Comprehension, Ordering of words in a sentence, Ordering of sentences, spotting of errors, use of appropriate and qualifying words. <b>(OMR based MCQ Type - 15 Questions one mark each)</b>	15
		General Mental Ability & Logical reasoning	Logical Reasoning, Analytical Reasoning Capabilities, Quantitative and Qualitative abilities, General Aptitude <b>(OMR based MCQ Type - 15 Questions one mark each)</b>	15
		General Knowledge & Current Affairs	(i) General Knowledge with special reference to Tripura and North Eastern States (ii) Elementary knowledge of Indian History and Indian Geography. (iii) Matter of common experience and current events and problems with special reference to Tripura, India and world. <b>(OMR based MCQ Type &amp; 20 Questions one mark each)</b>	20
<b>General Ability Test Paper - I</b>			<b>Total Marks = 50</b>	



<p>2</p>	<p>Job Oriented Subject Technical Paper-II</p>	<p><b>Engineering Mathematics</b></p> <p><b>Section 1: Discrete Mathematics, Probability and Statistics:</b></p> <p>Compound Statements, Truth Tables, The Algebra of Propositions, Logical Arguments, Sets, Operations on Sets, Binary Relations, Partial Orders, Mathematical Induction, The Principle of Inclusion-Exclusion, Probability theory: Sample spaces, Events and probability, Discrete probability: Union, Intersection and Compliment of events, Conditional probability, Baye's theorem. Linear correlation coefficient, Linear regression, Non-Linear regression, Multiple correlation and Multiple regression, Theory of sampling and population.</p> <p><b>Computer Science and Information Technology</b></p> <p><b>Section 2: Digital Logic Systems and Microprocessors:</b></p> <p>Boolean algebra, Combinational and sequential circuits, Minimization, Number representations and computer arithmetic (fixed and floating point). Boolean expressions, K-maps, TTL and CMOS logic families, flip flop, combinational logic design, synchronous sequential system design. Microprocessors: 8085/86 architecture, data transfer scheme and interfaces, Addressing modes.</p> <p><b>Section 3: Computer Organization and Architecture</b></p> <p>Machine instructions and addressing modes, ALU, data path and control unit. Instruction pipelining, pipeline hazards. Memory hierarchy: cache, main memory and secondary storage; I/O interface (interrupt and DMA mode).</p> <p><b>Section 4: Operating System:</b></p> <p>Types of OS, System calls, processes, threads, Inter process communication, concurrency and synchronization. Deadlock. CPU and I/O scheduling. Memory management and virtual memory. File systems.</p> <p><b>Section 5: Algorithms:</b></p> <p>Searching, sorting, hashing. Asymptotic notations, worst case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide and conquer. Graph traversals, minimum spanning trees, shortest paths</p> <p><b>Section 6: Data Structures :</b></p> <p>Array, Linked List, Stack, Queue, Priority Queues, Hashing, Binary trees, Tree traversal, AVL trees, Graphs- shortest paths, minimum spanning trees; Sorting and Searching algorithms.</p> <p><b>Section 7: Object Oriented Programming through C++/JAVA:</b></p> <p>Data Abstraction, Encapsulation, classes, constructors and destructors, dynamic memory allocation, Inheritance, Polymorphism, generic classes, exception handling and File processing. Java applets, Java features, Byte codes, wrapper classes, multithreading support classes, vector, stack, interface observer, stream tokenizer, GUI classes, Java I/O, classes, The Applet class, applet architecture, applet display methods and repainting.</p>	<p>120 Marks</p>
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	<p><b>Section 8: Software Engineering:</b> System modeling, system engineering process, process life cycle models, design and implementation, validation and verification, evolution, automated, process support – software requirements, SRS, feasibility studies - elicitation and analysis - validation - management - system models, context models, behavior models, data models, object models, object-oriented design, design evolution, real-time software design, critical systems specifications - critical system development, software testing, cohesion, coupling, Cyclomatic complexity, CFG</p> <p><b>Section 9: Computer Networks</b> Concept of layering: OSI and TCP/IP Protocol Stacks; Basics of packet, circuit and virtual circuit-switching; Data link layer: framing, error detection, Medium Access Control, Ethernet bridging; Routing protocols: shortest path, flooding, distance vector and link state routing; Fragmentation and IP addressing, IPv4, CIDR notation, Basics of IP support protocols (ARP, DHCP, ICMP), Network Address Translation (NAT); Transport layer: flow control and congestion control, UDP, TCP, sockets; Application layer protocols: DNS, SMTP, HTTP, FTP, Email.</p> <p><b>Section 10: Database</b> Keys, E-R Model, Relational model: relational algebra, tuple, calculus, SQL, Integrity constraints, Normalization – 1NF to 5NF; Aggregate functions, Nested Sub queries, Views, Joined Relations, Transaction-ACID properties; Concurrency Control, triggers, stored procedures, concurrent transactions – its problems and solutions, distributed database.</p> <p><b>Section 11: Web Technologies:</b> HTML5, CSS3, Bootstrap, XML, basic concept of client-server computing, web server, proxy server, web application development, MVC Architecture, web services, frontend technologies.</p> <p><b>Section 12: Cyber Security and Emerging Technologies:</b> Secure programming techniques, OWASP top 10 vulnerabilities, concepts on IoT, Block chain, Securities in Mobile Technologies and its applications.</p> <p><b>(OMR based MCQ Type &amp; 120 Questions one mark each)</b></p>
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- (i) Question paper for written examination will be of 170 marks (170 MCQ). Question will be MCQ type carrying 1(one) mark each.
- (ii) There will be negative marking of 0.25 mark for every wrong answer.
- (iii) Minimum qualification marks in MCQ test should be as per standing norms of TPSC.



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- (iv) Accordingly, merit list of qualified candidates may be prepared considering 100 points roster as per the standing norms of Government of Tripura.
- (v) Each question will have 4(four) distracters. Some of the questions may have "None of these" as one of the distracters if felt necessary.
- (vi) Candidates must appear before the Selection Committee for interview/personality test.
- (vii) Final merit list will be prepared by adding both marks obtained in the written test followed by interview.
- (viii) Out of 30 marks allocated for interview, some marks to be allocated for Desirable Qualification as per Memorandum vide No.F.20(1)/GA(P&T)/2018 dated 02/01/2021 issued by the Govt. of Tripura.

  
(U.J. Mog)

Addl. Chief Electoral Officer  
Government of Tripura