Online applications are invited from bonafide citizens of India for recruitment to 02 (UR-01 & ST-01) Temporary posts of **Junior Forensic Digital Analyst** (Cyber Forensic Division), Group-B (Gazetted), of the State Forensic Science Laboratory under Home Department, Govt. of Tripura. The scale of pay Rs. 42,900/- of Level-12 of Tripura State Pay Matrix-2018 (Pre-revised) PB-3, Rs.10,230-34,800/-,GP-Rs. 4,600/- subject to revision by the State Govt. from time to time.

The number of vacancy to be filled up is subject to increase or decrease as per requisition of the Department.

Educational Qualifications :

Essential:- Master Degree in Computer Science and Engineering or M. Sc. (Computer Science) or Master in Computer Application or M.Sc. Forensic Science with PG Diploma in Computer Application or M.Sc. Physics with PG Diploma in Computer Application from a recognized University with 50% marks.

Desirable:- Knowledge of Bengali or Kokborok.

Age:- Age not less than 18 years and not more than 40 years as on **01.04.2025**. Relaxable by 05 years in case of ST/SC/PH candidates and Government Servants. The Government employees belong to ST/SC/PH category shall not get this relaxation over and above the General relaxation of 5 years available to them.

* 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.

The last date of submission of online application is **01.04.2025** (upto 5.30 PM). The application(s) received after the closing date will not be entertained.

Selection Process:-

Full Marks: 200

(a) As per service rule the Recruitment process will comprise of 02 (two)successive stages, viz :-
(i) Written Examination: **180 marks** (MCQ type, OMR based) there will be Negative Marks as per TPSC norms and time allotted **3 hours.**
(ii) Interview/ Viva : **15 marks.**
(iii) Proficiency knowledge in Bengali/Kokborok : **5 marks**

(b) For detailed syllabus of Written Examination (180 marks) & selection process please refer Tripura Gazette Notification dated 31st May 2023 (Annexure-'A').

(c) 15 marks allotted for the Personality Test: The Test shall be to assess the personal qualities of the candidate's e.g. intellectual ability, social traits, interest in current affairs, critical power of judgment, variety and depth of interest, ability for leadership and moral integrity.

(d) Candidates will be called for the Personality Test on the basis of the result of the Written Examination in the following ratio, subject to attaining of minimum qualifying marks:

Number of vacancies	Number of candidates to be called for Personality Test (Category wise)
1(one)	5(five) candidates
2(two)	8(eight) candidates
3(three) and above	3(three)times the number of vacancies

Candidate (s) scoring marks equal to that of the last candidate so selected for the Personality Test will also be called for Personality Test.

(e) The final selection will be made in order of merit on the basis of the marks obtained by a candidate in the Written Examination (out of 180 marks) and by adding the marks obtained in the Interview process (out of 15 marks) & Proficiency knowledge in Bengali/Kokborok (out of 5 marks). If a candidate remains absent in the interview process his/her candidature will not be considered for final merit list.

(f) 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.

(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) 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.

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 **07.03.2025** to **01.04.2025** **(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. https://tpsc.tripura.gov.in Once applicant registers his/her particulars, a User ID is generated and sent to his/her registered mobile number and email ID. Applicants need to apply for the post using the OTPR User ID through 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.

(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) With their respective application candidates are not required to upload/submit any certificate/document in support of their claims.

(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 of examination for which they are admitted for the Written Examination 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) After publication of result of Written Examination, successful candidates will be asked to submit self attested copies of the relevant documents i.e. Age proof certificate(birth certificate/Admit of Madhyamik), Educational Qualifications (Madhyamik onwards)Mark sheets & Certificates, Scheduled Tribes/Scheduled Casts/PH/Ex-SM certificate (if any), PRTC etc. to the Reception Counter of TPSC or By post addressed to the Secretary, TPSC, Agartala, PIN-799001. Submission of such documents including through post will be allowed up to specified time along with forwarding letter falling which candidature will be treated as cancelled. The Commission will not entertain any documents thereafter.

(d) 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) Rs. 350/-(Rupees three hundred & fifty) for General Candidates and Rs.250/-(Rupees two hundred & fifty) only for ST/SC/ BPL card holders 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.

(7) Candidates are at liberty to making correction(s) in any field(s) of the 'Online Application Form' for the respective advertisement after closing day of submission of online application window of the said advertisement. The window for making correction(s) only will remain open for 7(seven) days from the closing day of submission of 'Online Application Form'.
   After completion of such process the Commission will not entertain any application/representation for making correction(s) in any field(s) of the 'Online Application Form'.

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

(9) 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.

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

13/2/2025
(S. Mog, IAS)
Secretary,
Tripura Public Service Commission.

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SCHEME OF EXAMINATION FOR THE POST OF JUNIOR FORENSIC DIGITAL ANALYST (CYBER FORENSIC DIVISION), STATE FORENSIC SCIENCE LABORATORY, TRIPURA

Full marks: 200

Marks allotted for Interview: 15
Proficiency knowledge in Bengali/Kokborok: 5
Marks allotted for written Test: 180
Pattern of questions for written Test: Multiple Choice Question (MCQ)

There will be Negative Marks.

Distribution of marks for written Test:

Sl. No.	Items	Marks allotted
1	English Language	30
2	General knowledge	30
3	Subject matter (Cyber Forensics)	120

(1) Syllabus for English Language:

Question on English language 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 etc.

(2) Syllabus for General Knowledge:

General knowledge with special reference to Tripura and North Eastern States.

(3) SYLLABUS FOR SUBJECT MATTER (Cyber Forensics):

Unit 1: Propositional (Boolean) Logic, Predicate Logic, Well-formed formulae (WFF), Satisfiability and Tautology. Digital Computers, Logic Gates, Boolean Algebra, Map Simplifications, Combinational Circuits, Flip-Flops, Sequential Circuits, Integrated Circuits, Decoders, Multiplexers, Registers and Counters, Memory Unit. Representation of Integers: Octal, Hex, Decimal, and Binary. 1's complement and 2's complement arithmetic. Floating point representation.

Unit 2: Programming in C: Elements of C-Tokens, identifiers, data types in C. Control structures in C. Sequence, selection and iteration (s). Structured data types in C-arrays, struct, union, string, and pointers. Object Oriented Programming Concepts: Class, object, instantiation. Inheritance, polymorphism and overloading. C + + Programming: Elements of C + + Tokens, identifiers. Variables and constants, Datatypes, Operators, Control statements. Functions parameter passing. Class and objects. Constructors and destructors. Overloading, Inheritance, Templates, Exception handling. Web Programming: HTML, DHTML, XML, Scripting, Java, Servlets, Applets.

Unit 3: Computer Networks: Network fundamentals: Local Area Networks (LAN), Metropolitan Area Networks (MAN), Wide Area Networks (WAN), Wireless Networks, Inter Networks. Reference Models: The OSI model, TCP/IP model. IP address and Mac address. Data Communication: Channel capacity. Transmission media-twisted pair, coaxial cables, fibre-optic cables, wireless transmission-radio, microwave, infrared waves. Lightwave transmission. Telephones-local loop, trunks, multiplexing, switching, narrowband ISDN, broadband ISDN, ATM, High- speed LANS. Cellular and Radio. Communication Internetworking: Switch/Hub, Bridge, Router, Gateways, Concatenated virtual circuits, Tunnelling, Fragmentation, Firewalls. Routing: Virtual circuits and datagrams. Routing algorithms. Network Security: Cryptography-public key, secret key. Domain Name System (DNS).-Electronic Mail and Worldwide Web (WWW). The DNS, Resource Records, Name servers. E-mail-architecture.

Unit 4: Database and SQL: E-R diagrams and their transformation to relational design, normalization-. SQL: Data Definition and Data Types; Constraints, Queries, Insert, Delete, and Update Statements; Views, Stored Procedures and Functions; Database Triggers, SQL Injection. Transaction Processing, Concurrency Control Techniques, Database Recovery Techniques, Object and Object-Relational Databases; Database Security and Authorization. data dictionary.

Unit 5: Data and File structures: Data, Information, Definition of data structure. Arrays, stacks, queues, linked lists, trees, graphs, priority queues and heaps. File Structures: Fields, records and files. Sequential, direct, index-sequential and relative files. Hashing, inverted lists and multi-lists. B trees and B + trees.

Unit 6: Operating Systems: Main functions of operating systems. Multi Programing, multiprocessing, and multitasking. Memory Management: Virtual memory, paging, fragmentation. Concurrent Processing; Mutual exclusion. Critical regions, lock and unlock. Scheduling: CPU scheduling, I/O scheduling, Resource scheduling. Deadlock and scheduling algorithms. Disk management – formatting, boot block, disk free space management techniques, concept of RAID. Protection and Security: Concepts of domain, access control, Security of systems- concepts, threats- Trojan horse, virus, worms etc, user authentication UNIX: The Unix System: File system, process management, shell variables, command line programming. Filters and Commands. Windows Operating Systems: Design Principles, System Components, Terminal Services and Fast User Switching; File System, Networking.

Unit 7: Software Engineering: System Development Life Cycle (SDLC): Steps, Water fall model, Prototypes, Spiral model. Software Metrics: Software Project Management. Software Design: System design, detailed design, function oriented design, object oriented design, user interface design. Design level metrics. Coding and Testing: Testing level metrics. Software quality and reliability. Clean room approach, software reengineering, reverse engineering.

Unit 8: Mobile Computing: Mobile connectivity-Cells, Framework, wireless delivery technology and switching methods, mobile information access devices, mobile data internetworking standards, cellular data communication protocols, mobile computing applications. Mobile databases-protocols, scope, tools and technology. M-business.

Unit 9: Computer Organization and Architecture : Introduction to basic structures and operational concepts, Instruction formats, Instruction execution, sequencing, Addressing modes, Stacks, Queues, Subroutines Concepts, Fetching and storing word from/in main memory, Register transfers, Operations, execution of a complete instruction, Basic concepts, RAM, ROM – different types, Characteristics, Cache memories, Performance (memory interleaving, hit rate etc.), Memory hierarchy -virtual memory – address translation, Secondary memories Input/output organization: memory mapped, standard (isolated) and linear selection techniques of I/O addressing. Data transfer through programmed I/O, interrupt and DMA I/O processors. Data transfer over synchronous and asynchronous buses; discussions on some standard interface buses.

Unit 10 : Digital Evidence storage devices, Order of volatility of Digital evidence, Cybercrime and types, Cyber Forensics, Basic rules for Cyber forensics, Collection and preservation of Digital evidence, Data acquisition methods, Forensic Imaging and cloning, Data validation, Hash Algorithms and hash value, Various file extensions and file signatures. Windows Registry overview, data recovery techniques. Windows Disks, Files and Partitions, Email tracing techniques, Social media analysis, Steganography and analysis methods.