



राष्ट्रीय प्रौद्योगिकी संस्थान, कुरुक्षेत्र
NATIONAL INSTITUTE OF TECHNOLOGY
(Under the Ministry of Education, Govt. of India)
KURUKSHETRA-136119

RECRUITMENT OF OFFICER CADRE POSTS (REF.:ADVT. NO.:20/2025)

Name of the Post	:	Technical Officer - Computer Engineering (Level - 10)
Details of the Scheme & Pattern of Examination:	:	<ul style="list-style-type: none">Total Questions :160 (MCQ Type)Maximum Marks :160Negative Marking : 0.25 marks will be deducted for each wrong answer <p>Part-A (General Paper) (60)</p> <ul style="list-style-type: none">General English (15)Numerical Aptitude Arithmetic (15)Reasoning and Data Interpretation (15)General Knowledge and Current Affairs (15) <p>Part-B (Post Related Paper): (100)</p>
Duration of Examination	:	2.5 hours

SYLLABUS FOR SCREENING TEST

Part-A (General Paper)

- General English** - Tenses, Active and Passive, Direct & Indirect speech, Punctuation, Correction of sentence, One word substitutes, Modals, Articles, Clauses, Synonyms, Antonyms, Idioms & Phrases.
- Numerical Aptitude Arithmetic** - Simplification of Fractions, Simple and Compound Interest, Profit and Loss, Percentage, Averages, Number System, Time and Work, Problems on Trains, Calendar, Area, Problems on Numbers, Square root, Cube root, Time and Distance and Other Basic Arithmetic related problems.
- Reasoning and Data Interpretation** - Number Series Compilation, Missing Number finding, Pattern series, Direction Sense Test, Series Compilations, Classification, Missing Character finding, odd man out, Blood relations, Analogy, Coding & Decoding, Letter & Symbol Series, Verbal reasoning, Statements & Conclusions, Letter & Symbol Series, Logical Problems, Arithmetic Reasoning, Logical Sequence of Words, Pie Chart & Bar Chart
- General Knowledge and Current Affairs**- Indian History, Indian Economy, Indian Culture, Indian Polity, Indian Constitution, Indian Geography, Environmental Science, Awards and Honors, Famous Personalities, Days and Years, Basic General Knowledge, Current Affairs, Government Schemes, etc. upto 10th Standard.

Part-B (Post Related Paper)

1. Hardware

- I. Hardware Devices and Troubleshooting
- II. Components, tools and safety measures
- III. Assembling a PC
- IV. Firmware upgrade, Dual BIOS & BIOS settings
- V. Diagnose & Resolve issues related to a PC
- VI. Laptop features, Components, tools and safety measures
- VII. Diagnose & Resolve issues related to a Laptop
- VIII. Upgrading a PC or Laptop
- IX. Smartphone features and Tools & Safety
- X. Types of printers
- XI. Installing and testing a printer
- XII. Printer Maintenance
- XIII. Scanner Installation
- XIV. Webcam Installation.

2. Programming and Data Structure

- I. C Language
- II. Object oriented Programming
- III. functions
- IV. data type
- V. Recursion
- VI. Arrays
- VII. Stacks \Queues
- VIII. Binary Search Trees
- IX. Sorting.

3. Web Designing

- I. HTML and CSS
- II. SQL
- III. JavaScript

4. Operating system

- I. Application & Troubleshooting
- II. Different OS and Compatibility
- III. Windows and Linux installation
- IV. Upgrading OS
- V. Software Installation
- VI. Working on MSWord, Excel & PowerPoint
- VII. MS Office troubleshooting
- VIII. Different Browser setup
- IX. Backup, format & restore OS.

5. Networking and Security

- I. Basics of computer network
- II. OSI Model
- III. Transmission Media
- IV. Networking devices Network Topology

- V. LAN Basics
- VI. IP Addressing
- VII. TCP/IP
- VIII. Ethernet Advanced
- IX. Structured Cabling
- X. Wireless Networking
- XI. Connecting a PC/Laptop to Internet
- XII. Installing a printer and sharing it in network
- XIII. Joining a workgroup/domain
- XIV. File sharing and troubleshooting
- XV. Remote Access
- XVI. Basics of Wi-Fi
- XVII. Internet security.

Note:- The Syllabus is suggestive and indicative in nature having only broader areas for reference. The Candidate is expected to have the holistic and expanded knowledge of the subject/syllabus.
