



# राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली

## NATIONAL INSTITUTE OF TECHNOLOGY DELHI

(शिक्षा मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संस्थान)

(An autonomous Institute under the aegis of Ministry of Education (Shiksha Mantralaya), Govt. of India)

Plot No. FA7, Zone P1, GT Karnal Road, Delhi-110036, INDIA

दूरभाष/Tele: +9111-33861000, 1001, 1005, वेबसाइट/Website: [www.nitdelhi.ac.in](http://www.nitdelhi.ac.in)

F. No: NITD/01/Admn/606/2025-26

Dated: 12.12.2025

### Pattern of Examination (Written Test and Proficiency Test) and Evaluation Criteria for all the Advertised Non-Teaching Positions vide Advt. No.: 08/2025

#### A. PATTERN OF EXAMINATION AND EVALUATION CRITERIA OF WRITTEN EXAMINATION (PART A, PART B, AND PART C):

1. Pattern of Examination and evaluation Criteria (Part A, Part B, and Part C):
  - a. The written examination will consist of one paper divided into three parts:

Part	Type	Content	No. of Questions	Marks
A	Objective Type	General Knowledge Test	20	20
B	Objective Type	Domain Knowledge Test	60	60
C	Descriptive Type	Assessment of Practical and Experimental Knowledge	5	20
			85	100
2. Cutt-off / Merit Criteria:
  - i. Cut-off / Merit will be drawn on the basis of marks obtained by candidates out of 100 marks in the written examination (Part A, Part B, and Part C).
  - ii. Based on the merit as referred in Point 2 (i) above, candidates will be shortlisted in the ratio of 1:6 (i.e. a maximum Six candidates will be shortlisted for each advertised post), in order of merit, for each advertised post, subject to securing the following minimum qualifying marks in the written examination:
    - a). UR / EWS: Minimum 60 marks out of 100 marks (60%)
    - b). OBC: Minimum 55 marks out of 100 marks (55%)
    - c). SC / ST / (PwD / PwBD): Minimum 50 marks out of 100 marks (50%)
3. Number of Questions and Marking Scheme:
  - i. Written Test – Part – A shall consist of 20 questions, carrying 01 mark each, and therefore this Part shall be of maximum 20 marks. The evaluation shall be carried out as follows:
    - a). 01 (one) mark will be awarded for each correctly attempted question.
    - b). 0.25 marks will be deducted as negative marking for each incorrectly attempted question.
    - c). No marks shall be awarded for any question that remains unattempted or left unanswered.
  - ii. Written Test – Part – B shall consist of 60 questions, carrying 01 mark each, and therefore this Part shall be of maximum 60 marks. The evaluation shall be carried out as follows:
    - a). 01 (one) mark will be awarded for each correctly attempted question.
    - b). 0.25 marks will be deducted as negative marking for each incorrectly attempted question.
    - c). No marks shall be awarded for any question that remains unattempted or left unanswered.

- iii. Written Test – Part – C shall consist of 05 questions, carrying 04 marks each, and therefore this Part shall be of maximum 20 marks.
  - a). No negative marking will be applicable in Part C.
- 4. Timing allotment for the examination (Written Examination):
  - i. The Written Test (comprising Part A, Part B, and Part C) shall be of 2 hours and 30 minutes (150 minutes) duration for all the positions.
- 5. In case of bunching / bracketing of candidates in the result of the Written Test, the merit shall be decided in the following order:
  - i. Desirable Qualifications: Candidates who possess the desirable qualification(s) prescribed for the post shall be given preference.
  - ii. Age Seniority: If the tie remains unresolved, the candidate senior in age shall be given preference.
  - iii. Alphabetical Order of Name: If the tie still persists, preference shall be given to the candidate whose name comes first in alphabetical order.
  - iv. Draw of Lots: If all the above criteria fail to break the tie, the merit order shall be decided through draw of lots.

## **B. PATTERN AND EVALUATION CRITERIA OF PROFICIENCY TEST:**

- 1. Proficiency Test:
  - i. Candidates shortlisted in the ratio of 1:6 for each advertised post, as per the criteria specified in Point 2 under (A), shall be called to appear for the Proficiency Test.
- 2. The Proficiency Test shall carry a total of 50 marks and will be qualifying in nature, with the following qualifying marks:
  - i. UR / EWS: Minimum 27.5 marks out of 50 marks (55%).
  - ii. OBC / SC / ST / (PwD / PwBD): Minimum 25 marks out of 50 marks (50%).
- 3. Timing allotment for the examination (Proficiency Test):
  - i. The Proficiency Test shall be of 1 hour (60 minutes) duration for all the advertised posts.

Sd/-  
(Prof. (Dr.) Hitesh Sharma)  
Registrar, NIT Delhi



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### Syllabus of the Written Test (Part A, Part B and Part C) and the Proficiency Test for the Non-Teaching Positions Advertised vide Advt. No.: 08/2025

#### TECHNICIAN (COMPUTER APPLICATIONS), PAY LEVEL – 03

##### **Written Test – Part – A (Objective Type – General Knowledge Test) 20 Marks**

- i. Maths & Numerical Ability: Average, Time and Work, Simple Interest, Compound Interest, Decimal Fractions, Problems on Numbers, Square Root and Cube Root, Time and Distance, Simplification, Numerical Computation etc.
- ii. Logical Reasoning: Number Series Compilation, Missing Number Finding, Continuous Pattern Series, Matching Definitions, Missing Character Finding, Coding and Decoding, Logical Sequence of Words, Arithmetic Reasoning, Numerical Reasoning, Data Reasoning and Data Interpretation. etc.
- iii. Language & Comprehension: Antonyms, Synonyms, Spelling Check, Common Error Detection, One word substitution, Grammatical error, Idioms and Phrases, Sentence Correction and Completion, Spotting Errors, Sentence Improvement, Sentence Formation, etc.
- iv. General knowledge and Current Affairs: NEP 2020, Academic Bank of Credit, Indian Economy, Indian Polity, Indian Constitution, Indian Geography, Days and Years, Basic General Knowledge, Current Affairs, Important Government Schemes, etc.
- v. Computer Fundamentals, MS Word, MS Excel, MS Power Point, Internet, Email System, etc.

##### **Written Test – Part – B (Objective Type – Domain Knowledge Test) 60 Marks**

- i. Physics, Chemistry, Mathematics and Computer Science up to 12th Standard
- ii. Computer Hardware Basics: Microprocessors architectures, types of CPUs/GPU, Processor technologies, Pins/Sockets, RAM, ROM, Cache Memory, Buffer Memory, Virtual Memory, BIOS setup, upgrade and security, Motherboards types, chipsets, expansion slots, and other components, Switch Mode Power supplies, hard drives, Interface, Data storage technique, interfaces: LED, LCD, DVI, HDMI, VGA etc., multimedia, Portable Computing, Mobile Devices, Printers.
- iii. Operating Systems: Windows System administration, OS installation methods, Safe Mode, Safe Mode Boot options, Last Known Good Configuration etc., Windows Diagnostic Tools, System Restore, Creating Restore point, restore using Restore point, etc., Windows Recovery tools and methods. Backup/Recovery and Restore procedures in windows and other operating systems.

Linux Operating System. Difference between Windows and Linux OS, Installation of Linux OS, Boot Loaders, Kernel. Shells, utilities etc., Linux Administration Basics Installation of various Packages in Linux, Linux Networking, Configuration of basic networking services in Linux

- iv. Application Software: Installation of Microsoft Office, MS Teams, Basic operating of Word Processing, Creating, opening and closing Documents, use of shortcuts, Creating and Editing of Text, Formatting the Text, Insertion & creation of Tables. Basics of Excel worksheet, understanding basic commands, creating simple worksheets, understanding sample worksheets, use of simple formulas and functions, Printing of simple excel sheets.
- v. Network Basics: Computer Networking: Network Topologies: Type of Networks and Internet, Media Types, Network Equipment Types and functions: Hubs, Switches, Routers, Modems, Transceivers, Firewalls, Wireless Controllers, Access Points. TCP/IP, Ethernet, Wi-Fi, Bluetooth, Mobile Networking, Types of Cat Cables, Network Tools, (RJ45, Cable Crimping Tools, Continuity Tester).

**Written Test – Part – C (Descriptive Test – Assessment of Practical and Experimental Knowledge) 20 Marks.**

Candidates will be expected to explain the principles, operation, and applications of the following workshop instruments, tools, machines, and processes:

- a) Assembling of PC
- b) Installation of Systems and troubleshooting, BIOS settings,
- c) Installation and testing of a printer, Printer Maintenance, projector, digital whiteboard, Scanner Installation
- d) Webcam Installation, Making various types of cables for networking
- e) Installation and Maintenance of UPS Systems
- f) Installation and maintenance of various networking devices like Router, Switches
- g) Laying out Structured cabling
- h) Maintaining servers and network hardware
- i) LAN configuration and Cable Patching
- j) Installation of antivirus software, Firewalls and Connectivity of LAN & WAN, Creation of VPNs
- k) Identifying hardware and software problems, common computer errors, resolving software issues, replacing hardware components, and preventive maintenance
- l) Brief knowledge of OSI and TCP/IP protocol stacks, IPv4 and IPv6
- m) Installation of Wireless network devices

i. Skill Test of Performing Nature and Oral: Software

- a) Installing and testing new software
- b) Installation and Administration of SQL & Oracle

- c) Installation of various variants of Operating systems like Windows and Linux
- d) Installation of Software like Visual Studio, UML, Cisco Packet tracer
- e) Working of MS-Office components like Word, Excel & PowerPoint
- f) Configuring and sharing internet in PCs and other devices
- g) Configuring firewalls & Usage of access lists
- h) Working with Wireless Networks (Installation & Configuration)
- i) Basic HTML and web designing
- j) Ensuring the anti-virus software is installed, properly configured, regularly updated, and working on all PC and server stations and troubleshooting

ii. Performance Evaluation related to Laboratory Maintenance

- a) Maintenance of consumable and non-consumable stock registers
- b) Maintenance and usage of laboratory log books for using various equipment's.
- c) Managing of storage of various components in relatable places.
- d) Basic idea of repairing/ maintenance of laboratory equipment's.

## **Proficiency Test – (Skill based Assessment of Practical and Experimental Knowledge) 50 Marks**

Candidates will be expected to explain the principles, operation, and applications of the following workshop instruments, tools, machines, and processes:

- a) Assembling of PC
- b) Installation of Systems and troubleshooting, BIOS settings,
- c) Installation and testing of a printer, Printer Maintenance, projector, digital whiteboard, Scanner Installation
- d) Webcam Installation, Making various types of cables for networking
- e) Installation and Maintenance of UPS Systems
- f) Installation and maintenance of various networking devices like Router, Switches
- g) Laying out Structured cabling
- h) Maintaining servers and network hardware
- i) LAN configuration and Cable Patching
- j) Installation of antivirus software, Firewalls and Connectivity of LAN & WAN, Creation of VPNs
- k) Identifying hardware and software problems, common computer errors, resolving software issues, replacing hardware components, and preventive maintenance
- l) Brief knowledge of OSI and TCP/IP protocol stacks, IPv4 and IPv6
- m) Installation of Wireless network devices
- n) Installing and testing new software
- o) Installation and Administration of SQL & Oracle
- p) Installation of various variants of Operating systems like Windows and Linux
- q) Installation of Software like Visual Studio, UML, Cisco Packet tracer
- r) Working of MS-Office components like Word, Excel & PowerPoint
- s) Configuring and sharing internet in PCs and other devices
- t) Configuring firewalls & Usage of access lists
- u) Working with Wireless Networks (Installation & Configuration)
- v) Basic HTML and web designing
- w) Ensuring the anti-virus software is installed, properly configured, regularly updated, and working on all PC and server stations and troubleshooting
- x) Maintenance of consumable and non-consumable stock registers
- y) Maintenance and usage of laboratory log books for using various equipment's.
- z) Managing of storage of various components in relatable places.
- aa) Basic idea of repairing/ maintenance of laboratory equipment's.