



NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
Institution Deemed to be University under Distinct Category, A Centrally Funded Technical Institute
Ministry of Education, Government of India, Taramani, Chennai - 600 113.
राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान
विशिष्ट श्रेणी के तहत मानित विश्वविद्यालय संस्थान, एक केंद्रीय वित्त पोषित तकनीकी संस्थान
शिक्षा मंत्रालय, भारत सरकार, तारामणि, चेन्नई - ६०० ११३.

Date of Examination:	14.09.2025	Time: 90 Minutes
Name of the Post:	Technical Assistant Grade II (Console Operator)	
Name of the Candidate:		
Roll No:		

Candidate's Signature

Invigilator's Signature

Instructions to the Candidate:

1. Use of Calculators, Cell Phones and Other Electronic Devices are not permitted inside the examination hall.
2. Candidate should fill the details on both question paper booklet and OMR sheet carefully without any corrections.
3. Candidate should carefully read the instructions given on the question paper booklet and OMR sheet.
4. Candidate should mark correct answer only on OMR sheet.
5. Question paper consists of **100 questions**. Questions in the form of **MCQ** type.
6. Each question carrying **one** mark. **No negative mark for wrong answer.**
7. Clarifications on Questions are not permitted.
8. Rough works can be done in the rough sheet provided.
9. No Candidate is allowed to leave the examination hall till the examination is completed.
10. Candidate should return question paper booklet, OMR sheet and the rough sheets after completion of examination to the invigilator.

TECHNICAL ASSISTANT GRADE – II (CONSOLE OPERATOR)	
1.	Your laser printer repeatedly prints vertical lines through the page. What is the probable cause of this error? A) Too much paper in the paper tray B) A problem with the corona wires or the drum C) Overly thick paper for the printer D) A warped roller in the paper path
2.	The first-generation computers used: a. Vacuum Tubes b. Transistor c. Microprocessor d. Integrated Circuits
3.	A technician is troubleshooting a network connectivity problem. Pings to the local wireless router are successful but pings to a server on the Internet are unsuccessful. Which CLI command could assist the technician to find the location of the networking problem? a. tracert b. ipconfig c. msconfig d. ipconfig /renew
4.	The main function of an operating system is: a. Managing files b. Managing resources c. Performing arithmetic operations d. Compiling programs
5.	Von Neumann architecture is based on: a) Separate memory for data and instructions b. Stored Program Concept c. Cloud Storage d. Punch Cards
6.	BIOS stands for: a. Basic Input Output System b. Binary Integrated Operating System c. Basic Internal Output System d. Binary Input Operating Setup
7.	A user has been given an inkjet printer that connects locally to this desktop computer. What does this printer use to push ink onto paper? A) An electrostatic charge B) A piezoelectric crystal C) A nozzle D) A moving pin
8.	Which unit of a computer performs arithmetic and logical operations? a. Control Unit b. Arithmetic Logic Unit c. Input Unit d. Output Unit
9.	Which one is volatile memory? a. ROM b. RAM c. Hard Disk d. DVD
10.	An embedded system is: a. General purpose computer b. Special purpose computer c. Cloud application d. Software tool
11.	What is the maximum transmission distance for a standard 10BASE-T Ethernet cable? a. 100 meters b. 200 meters c. 1 kilometer d. 50 meters
12.	Which component temporarily stores data and instructions? a. RAM b. Hard Drive c. Cache d. RO
13.	Which device provides permanent storage? a. RAM b. ROM c. Cache d. SSD
14.	What is the output of this statement "printf("%d", (x++))"? A) The value of (x + 1) B) The current value of x C) Error D) Garbage

15.	Which connector supplies power to the motherboard? a) SATA b. 24-pin ATX c. USB d. HDMI
16.	Which type of memory is non-volatile? a) RAM b. Cache c. ROM d. Register
17.	An optical drive uses which medium? a) Laser light b. Magnetic field c. Electric charge d. Capacitance
18.	What is the ability to replace computer system components without causing interruption to the system known as? A. Hot Swapping B. Hardware Acceleration C. Boot Sequence D. Cold Plugging
19.	Which part connects CPU, RAM, and peripherals? a) Power Supply b. Motherboard c. BIOS d. Hard Drive
20.	The power supply unit converts: a) AC to DC b. DC to AC c. AC to AC d. DC to DC
21.	Which tool is commonly used to test power supply output? a) Multimeter b. Screwdriver c. Oscilloscope d. POST card
22.	A continuous series of beeps at startup usually indicates: a) RAM failure b. CPU overheating c. Hard disk error d. Monitor issue
23.	Preventive maintenance includes: a) Cleaning dust b. Replacing burnt CPU c. Reinstalling OS d. Recovering data
24.	Which action resolves many temporary software errors? a) Restarting system b. Changing CPU c. Replacing RAM d. Removing BIOS
25.	Which symptom suggests a failing hard drive? a)Frequent crashes b. blue screen error c. Slow access d. All of the above
26.	Overheating in a computer is MOSTLY due to: a)Dust in fans b. RAM errors c. Faulty keyboard d. Monitor cable
27.	What should be checked first if a PC does not power on? a) Power cable connection b. CPU socket c. Printer cable d. Speaker
28.	If the monitor shows 'No Signal', the problem is likely with: a) RAM b. Motherboard c. Display cable d. Power Supply
29.	CMOS battery failure usually causes: a)Incorrect system time b. RAM errors c. No display d. Hard drive failure
30.	Which is a software troubleshooting step? a) Updating drivers b. Replacing CPU c. Cleaning fans d. Checking PSU
31.	Which protocol is used to translate domain names to IP addresses? a) HTTP b. FTP c. DNS d. SMTP
32.	What is the default port of HTTP? a) 21 b. 25 c. 80 d. 110
33.	Which topology connects every device to a central hub? a) Bus b. Ring c. Star d. Mesh
34.	Which address is unique to each device on a LAN? a) IP b. MAC c. Subnet d. Default Gateway
35.	What device forwards packets between networks? a) Switch b. Hub c. Router d. Repeater
36.	Which layer of OSI handles encryption? a) Session b. Presentation c. Transport d. Network
37.	Wireless security protocol WPA stands for: a) Wired Protected Access b) Wi-Fi Protected Access c) Wireless Packet Authorization d) Wide Protected Access
38.	Which command checks connectivity in a network? a) Ping b. cd c. ipconfig d. format

39.	What device regenerates signals to extend network length? a) Switch b. Hub c. Router d. Repeater
40.	IPv6 address length is: a) 32 bits b. 64 bits c. 128 bits d. 256 bits
41.	Which of the following best describes an upset failure caused by ESD? a. Upset failures are easy to detect. b. The failure destroys the component beyond use. c. The damaged component may continue to function, but it does not perform well. d. An upset failure prevents the computer from booting.
42.	Which malware encrypts files and demands ransom? a) Virus b. Worm c. Ransomware d. Spyware
43.	Antivirus software is used for: a) Creating files b. Deleting OS c. Detecting malware d. Formatting drives
44.	Phishing involves: a) Sending fake emails b. Hardware failure c. OS crash d. Data recovery
45.	Which attack floods a system with traffic? a) DoS b. Phishing c. Trojan d. Brute Force
46.	SSL is used to: a) Encrypt web traffic b. Store files c. Backup data d. Install OS
47.	A strong password should include: a) Only letters b. Only numbers c. Letters, numbers, symbols d. Only lowercase
48.	Two-factor authentication adds: a) Another password b. Security question c. Extra verification step d. More storage
49.	Which is NOT a cyberattack? a) Phishing b. Malware c. Backup d. Ransomware
50.	IDS stands for: a. Intrusion Detection System b. Internal Data Storage c. Internet Domain Service d. Integrated Driver Setup
51.	Which of the following is open-source OS? a) Windows b. Linux c. MacOS d. MS-DOS
52.	Which Windows tool restores system to an earlier state? a) Disk Cleanup b. System Restore c. Task Manager d. Defragmenter
53.	In Linux, which symbol represents the home directory? a) ~ b. / c. dot d. @
54.	Which file system is used by Windows? a) ext4 b. NTFS c. HFS d. FAT16
55.	Which is NOT an OS? a) Linux b. Windows c. MacOS d. Oracle
56.	Task Manager in Windows is used for: a) Managing processes b. Managing BIOS c. Formatting disks d. Installing OS
57.	Which command lists files in Linux? a) Ls b. cd c. pwd d. echo
58.	Backup software is used for: a) Recovering lost files b. Formatting disks c. Editing images d. Playing music
59.	Which type of OS is Windows Server? a) Real-time OS b. Server OS c. Mobile OS d. Embedded OS
60.	A warm boot involves using the _____ to reboot. a. Operating system b. Power button on the back of the tower c. Power plug d. Warm button
61.	MS Word is an example of: a) System Software b. Application Software c. Utility d. Driver

62.	Which suite includes Photoshop? a) Microsoft Office b. Adobe Creative Suite c. LibreOffice d. WPS Office
63.	In Excel, how do you reference a cell from another worksheet in the same workbook? a) =Sheet1(A1) b) =A1(Sheet1) c) =Sheet1.A1 d) =Sheet1!A1
64.	chmod command can be used in ____ ways. a) 3 b) 2 c) 5 d) 0
65.	Which shortcut opens 'Find' in Word? a) Ctrl+F b. Ctrl+S c. Ctrl+C d. Ctrl+V
66.	Mail merge is used in Word for: a) Combining files b. Creating graphics c. Personalized letters d. Calculations
67.	Which is NOT part of MS Office? a) Word b. Excel c. Outlook d. Photoshop
68.	Google Docs is an example of: a) Cloud-based app b. Desktop software c. OS d. Hardware
69.	In Excel, SUM () function is used to: a. Subtract values b. Add value c. Multiply value d. Divide values
70.	LibreOffice is: a) Free OS b. Open-source office suite c. Antivirus software d. Programming tool
71.	HTML stands for: a. Hyper Text Markup Language b. High Transfer Markup Language c. Hyper Tool Multi Language d. Hyper Transfer Markup Language
72.	CSS is mainly used for: a) Database creation b. Web page styling c. Programming d. Networking
73.	PHP is a: a) Client-side script b. Server-side script c. Database d. Protocol
74.	Which tag is used to insert a link in HTML? a) <a> b. <p> c. d. <div>
75.	JavaScript is: a) Compiled b. Interpreted c. Hardware d. Database
76.	Which protocol is used for sending email? a) HTTP b. SMTP c. FTP d. DNS
77.	Which database is commonly used with PHP? a) Oracle b. MySQL c. Access d. DB2
78.	Which HTML tag inserts an image? a) <a> b. c. <div> d. <p>
79.	HTTPS uses: a) SSL/TLS b. FTP c. DNS d. Ping
80.	Which tool inspects a webpage in browser? a) Task Manager b. Developer Tools c. Paint d. Disk Cleanup
81.	In programming, a loop is used for: a) Decision making b. Repetition c. Storing data d. Exiting program
82.	Which is NOT a programming language? a) Python b. C++ c. Linux d. Java
83.	Which standard TCP port is assigned for contacting SSH servers? a) port 21 b) port 22 c) port 23 d) port 24
84.	Which data structure works on FIFO? a) Stack b. Queue c. Tree d. Graph

85.	<p>What will be the output of the following C++ code?</p> <pre>#include <iostream> #include <string> using namespace std; int main(int argc, char const *argv[]) { char s1[6] = "Hello"; char s2[6] = "World"; char s3[12] = s1 + " " + s2; cout<<s3; return 0; }</pre> <p>a) Hello b) World c) Error d) Hello World</p>
86.	<p>EOF is an integer type defined in stdio.h and has a value _____</p> <p>a) 1 b) 0 c) NULL d) – 1</p>
87.	<p>A variable is:</p> <p>a) Constant b. Named storage location c. Loop d. Database</p>
88.	<p>Which keyword is used to define a function in Python?</p> <p>a) Def b. function c. fun d. proc</p>
89.	<p>Which loop executes at least once?</p> <p>a) For b. while c. do-while d. switch</p>
90.	<p>Which of the following root keys contains the data for a system's non-user-specific configurations?</p> <p>A. HKEY_LOCAL_MACHINE B. HKEY_USERS C. HKEY_CURRENT_USER D. HKEY_CLASSES_ROOT</p>
91.	<p>Cloud computing provides:</p> <p>a) Hardware only b) On-demand services c) Local storage only d) Manual backups</p>
92.	<p>Which of the following is a cloud service model?</p> <p>a. IaaS b. BIOS c. USB d. LAN</p>
93.	<p>Google Drive is an example of:</p> <p>a) IaaS b. PaaS c. SaaS d. DaaS</p>
94.	<p>Which cloud is a mix of public and private?</p> <p>a) Hybrid Cloud b. Private Cloud c. Community Cloud d. Shared Cloud</p>
95.	<p>Which company provides Azure?</p> <p>a) Google b. Amazon c. Microsoft d. IBM</p>
96.	<p>VMware is used for:</p> <p>a) Virtualization b. Networking c. Security d. Programming</p>
97.	<p>Which is NOT a cloud provider?</p> <p>a) AWS b. Azure c. Dropbox d. Docker</p>
98.	<p>Which type of cloud is owned by one organization?</p> <p>a) Public b. Private c. Hybrid d. Community</p>
99.	<p>Which feature ensures scaling resources in cloud?</p> <p>a) Elasticity b. Security c. Encryption d. Storage</p>
100.	<p>Which of the following correctly identifies the four possible entries in a file allocation table?</p> <p>a. File name, date, time, size b. Number of starting cluster, Number of ending cluster, Number of used clusters, Number of available clusters c. An end-of-file marker, a bad-block marker, code indicating the cluster is available, the number of cluster where the next part of file is stored. d. File name, Folder Location, starting cluster number, ending cluster number.</p>

Q.No	Options
1	B
2	A
3	A
4	B
5	B
6	A
7	C
8	B
9	B
10	B
11	A
12	A
13	D
14	B
15	B
16	C
17	A
18	D
19	B
20	A
21	A
22	A
23	A
24	A
25	D
26	A
27	A
28	C
29	A
30	A
31	C
32	C
33	C
34	B
35	C
36	B
37	B
38	A
39	D
40	C
41	C
42	C
43	C
44	A
45	A
46	A
47	C

48	C
49	C
50	A
51	B
52	B
53	A
54	B
55	D
56	A
57	A
58	A
59	B
60	A
61	B
62	B
63	A
64	B
65	A
66	C
67	D
68	A
69	B
70	B
71	A
72	B
73	B
74	A
75	B
76	B
77	B
78	B
79	A
80	B
81	B
82	C
83	B
84	B
85	C
86	D
87	B
88	A
89	C
90	A
91	B
92	A
93	C
94	A
95	C

96	A
97	D
98	B
99	A
100	C