



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, तिरुवनन्दपुरम् - ६९५ ०११, केरल, भारत

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY

THIRUVANANTHAPURAM – 695 011 KERALA, INDIA

(An Institute of National Importance under Govt. of India)

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WRITTEN TEST FOR MFCP TECHNICAL ASSISTANT (INSTRUMENTS) A TO B –

NETWORK SERVICE CELL

Roll No.

Date: 25.09.2024

Duration: 60 Minutes

Time: 9.00 A.M

Total Marks: 50

INSTRUCTIONS TO THE CANDIDATE

1. Write your Roll Number on the top of the Question Booklet and in the answer sheet.
2. Write legibly the alphabet of the most appropriate answer in the separate answer sheet provided.
3. There will not be any Negative marking.
4. Over-writing is not permitted.
5. Candidate should sign in the question paper and answer sheet.
6. No clarifications will be given.
7. Candidate should hand over the answer sheet and question paper to the invigilator before leaving the examination hall.

Signature of the Candidate

O/c

Head, BMT Wing

प्रमुख, बी.एम.टी.स्कंध
Head, BMT Wing

SreeChitraTirunal Institute for Medical Science & Technology
Biomedical Technology Wing, Poojappura, Trivandrum

MFCP: Technical Assistant (Instruments) A to B

DURATION – 60 MINUTES, MARKS: 50 (No negative marks)

Write suitable answer at the corresponding right side cell provided with each question.
 Make suitable assumptions wherever necessary.

1	Which of the following device can be used for connecting two different IP segments? [A] Layer 2 switch [B] Router [C] Firewall [D] Modem	
2	Which of the following memory is capable of operating at electronic speed? [A] Magnetic tape [B] Hard disk drive [C] Optical drive [D] RAM	
3	In UML standard, use case diagram is used for [A] Requirement elicitation [B] System modeling [C] System Implementation [D] Testing	
4	The Intel 8086 processor is [A] 8-bit [B] 16-bit [C] 32-bit [D] 64-bit	
5	Clock speed is measured in [A] bits per second [B] Hertz [C] Bytes [D] Baud	
6	A 20-bit address bus allows access to a memory of capacity [A] 1 Mb [B] 2 Mb [C] 4 Mb [D] 8 Mb	
7	Array subscripts in C always start at: [A] -1 [B] 0 [C] 1 [D] as specified by programmer	
8	Choose the answer which best describes the term Primary Key: [A] The Primary Key is a field that contains data that can be duplicate[D] [B] The Primary Key is a field that is never associated with any field in other tables. [C] The Primary Key is a field that contains data that is unique. [D] The Primary Key field is a concept used only in Microsoft Access.	
9	Method of hiding messages inside other files is known as [A] Water marking [B] Decryption [C] Symmetric encryption [D] Steganography	
10	The overall logical structure of a database can be expressed graphically by: [A] Entity-Relationship Diagram [B] Data Flow Diagram [C] Flow Chart [D] Directed Graph	
11	The memory that requires refreshing of data is: [A] SRAM [B] DRAM [C] SRAM [D] DRAM	
12	Cache memory enhances: [A] memory capacity [B] memory access time [C] secondary storage capacity [D] secondary storage access time	
13	Clustering is used for [A] high availability [B] back up [C] Cost reduction [D] Increasing storage capacity	
14	What is a basic element of Memory? [A] Transistor [B] Flip-flop [C] Gate [D] resistor	
15	Ruby is a [A] Wireless protocol [B] RFC protocol [C] Open document standard [D] Programming language	
16 translate domain name to IP address [A] DHCP server [B] LDAP server [C] DNS server [D] Virtual Server	
17	Which of the following is not an e-mail server? [A] Microsoft Exchange server [B] IBM lotus domino [C] Qmail [D] Tmail	

18	DMA stands for [A] Direct Memory Allocation [B] Distinct Memory Allocation [C] Direct Memory Access [D] Distinct Memory Access	
19	Solid state hard drives are intended for [A] increasing the data access speed [B] increasing the capacity of RAM [C] adopting the new DMI architecture [D] offloading the processor load	
20	Which of the following is a server operating system [A] Windows server 2012 [B] Redhat Enterprise Linux [C] OpenVMS [D] All of the above	
21	What is the address size of IPv6 ? [A] 32 bit [B] 64 bit [C] 128 bit [D] 256 bit	
22	Repeater operates in which layer of the OSI model? [A] Physical layer [B] Data link layer [C] Network layer [D] Transport layer	
23	In which type of RAID, data is mirrored between two disks. [A] RAID 0 [B] RAID 1 [C] RAID 2 [D] RAID 3	
24	Which of the following is an example of self-assigned IP address assigned to Windows machine? [A] 172.18.111.255 [B] 169.254.219.60 [C] 14.57.1.34 [D] 254.254.254.250	
25	Functions are overloaded when they have: [A] same name and return type [B] same name, return type, and different parameters [C] same name, different return type, and different parameters [D] same name, different type and/or number of parameters	
26 means that both data and the methods which may access it are defined together in the same unit. [A] data hiding [B] data binding [C] encapsulation [D] data mining	
27	What are the most important features of OOP languages? [A] Data encapsulation, inheritance, and exception handling [B] Inheritance, polymorphism, and exception handling [C] Data encapsulation, inheritance, and polymorphism [D] Data encapsulation, inheritance, and instantiation	
28	Which among the following statement is true? [A] Portability is higher in an intranet system than in a client server system. [B] Client-server model should have the same OS at the client and server side [C] In a client server application, the all tools should be from the same vendor [D] All the above are true	
29	Maximum allowable size of a single file in FAT32 partition is [A] 2 GB [B] 4 GB [C] 8 GB [D] 32 GB	
30	What will be the output of the following function if the printstar is invoked with value 5? <pre> void printstar(inti) { if (i>1) { printstar(i/2); printstar(i/2); } printf("**"); } </pre> [A] *** [B] ***** [C] function will generate compile error [D] function will generate run time error	
31 is the commonly used protocol for uploading files into websites [A] SMTP [B] HTTP [C] FTP [D] LDAP	
32	Which of the following protocol is an example of transport layer protocol [A] TCP [B] IPSec [C] HTTP [D] ICMP	
33	Implementation of LDAP protocol in Windows server OS is known as	

	[A] OpenLDAP [C] Active directory services	[B] Netware Directory services [D] None of the above	
34	In Ethernet local area network, Spanning tree based protocols are used in L2 switches for [A] Preventing bridge loops [B] Finding shortest path between active points [C] For establishing redundant links between active points [D] All of the above		
35	The term FTP stands for? [A] File transfer program [C] File transfer protocol	[B] File transmission protocol [D] File transfer protection	
36	Which is the main function of transport layer? [A] Node to node delivery [B] End to end delivery [C] Synchronization [D] Updating and maintaining routing tables		
37	Which of the following statement is true? i) An address with all bits 1 is interpreted as all networks or all hosts. ii) The class A network 128.0.0.0 is defined as the loopback network. [A] i only [B] ii only [C] Both A and B [D] None of the above		
38	A firewall is installed at the point where the secure internal network and untrusted external network meet which is also known as [A] Chock point [B] meeting point [C] firewall point [D] secure point		
39	A is an extension of an enterprise's private intranet across a public Network such as the Internet across a public Network such as the Internet, creating a secure private connection. [A] VNP [B] VPN [C] VSN [D] VSPN		
40	Which of this is not a network edge device? [A] Switch [B] PC [C] Smart phones [D] Servers		
41	Fiber optics posses following properties _____ [A] Immune electromagnetic interference [B] Very less signal attenuation [C] Very hard to tap [D] All of the mentioned		
42	In wireless distribution system _____ [A] multiple access point are inter-connected with each other [B] there is no access point [C] only one access point exists [D] access points are not required		
43	In Network Management System, the term that is responsible for controlling access to network based on predefined policy is called _____ [A] Fault Management [B] Secured Management [C] Active Management [D] Security Management		
44	Which of the following layers does the HTTP protocol work on? [A] Physical layer [B] Data-link layer [C] Application layer [D] None of the these		
45	Which of the following applications allows a user to access and change remote files without actual transfer? [A] DNS [B] FTP [C] NFS [D] Telnet		

46	Devices on one network can communicate with devices on another network via a	
	[A] File Server [B] Utility Server [C] Printer Server [D] Gateway	
47	Which of the following is not a mechanism that DHCP supports for IP address allocation?	
	[A] Automatic allocation [B] Static allocation [C] Dynamic allocation [D] Manual allocation	
48 is to protect data and passwords.	
	[A] Encryption [B] Authentication [C] Authorization [D] Non-repudiation	
49	The examples of Interior Gateway Protocols (IGP) are. i) Open Short Path First (OSPF) ii) Routing Information Protocol (RIP) iii) Border Gateway Protocol (BGP)	
	[A] i only [B] i, and ii only [C] i and iii only [D] All i, ii and iii	
50	A is a set of information that is exchanged between a client and web browser and a web server during an HTTP transaction.	
	[A] infoaset [B] clientinfo [C] cookie [D] transkie	



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✓ Network Service Cell.

Answer key MFCP : Tech. Asst (Inst) A+B

1. B
2. D
3. A
4. B
5. B
6. A
7. B
8. C
9. D
10. A
11. D
12. B
13. A
14. B
15. D
16. C
17. D
18. C
19. A
20. D
21. C
22. A
23. B
24. B
25. B
26. C
27. C
28. A
29. B
30. B
31. C
32. A
33. C
34. D
35. C
36. B
37. A
38. A
39. B
40. A
41. D

Network Engineering Services/ENS/DTQM/BMT-year 2024



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42. A
43. D
44. C
45. C
46. D
47. B
48. A
49. B
50. C

