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**D.Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY**

**22SYAIML205305**

**Q. Paper Code:**

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**(An Autonomous Institute)**

**S. Y. B. Tech-CSE-AIML (Semester-III)**

**END SEMESTER EXAMINATION, OCT./NOV.- 2021-22**

COURSE NAME: **Fundamentals of Networking,** COURSE CODE:**201AIMLl205**

Seat No :

**Day and Date: Thursday,27/01/2022**

**Time: 10.00 am to 11.00 am Max. Marks- 50**

**OBJECTIVE**

|  |  |  |  |  |
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|  | | |  | Correct  Option |
| Q. 1) | Why was the OSI model developed? | |  |
| A) manufacturers disliked the TCP/IP protocol suite | B) the rate of data transfer was increasing exponentially |
| C) standards were needed to allow any two systems to communicate | D) none of the above |
| Q. 2) | In the OSI model, encryption and decryption are functions of the \_\_\_\_\_\_\_\_ layer. | |  |
| A) Transport | B) Session |
| C) Presentation | D) Application |
| Q.3) | When a host on network A sends a message to a host on network B, which address does the router look at? | |  |
| A) Port | B) Logical |
| C) Physical | D) none of the above |
| Q. 4) | The Internetworking Protocol (IP) is a \_\_\_\_\_\_\_\_ protocol. | |  |
| A) Reliable | B) Connection oriented |
| C) both a and b | D) none of the above |
| Q. 5) | The number of addresses in a class C block is \_\_\_\_\_\_\_. | |  |
| A) 65,534 | B) 16,777,216 |
| C) 256 | D) none of the above |
| Q. 6) | The number of addresses assigned to an organization in classless addressing \_\_\_\_\_\_\_. | |  |
| A) can be any number | B) must be a power of 2 |
| C) must be a multiple of 256 | D) none of the above |
| Q. 7) | What is the first address of a block of classless addresses if one of the addresses is 14.139.120.67/28? | |  |
| A) 210.212.192.240 | B) 14.139.120.5 |
| C) 14.139.120.64 | D) 192.168.10.1 |
| Q. 8) | TCP is a \_\_\_\_\_\_\_\_\_\_protocol. | |  |
| A) stream-oriented | B) message-oriented |
| C) block-oriented | D) none of the above |
| Q. 9) | Which one of the following is not a function of network layer? | |  |
| A) routing | B) inter networking |
| C) congestion control | D) error control |
| Q. 10) | Which of the following routing algorithms can be used for network layer design? | |  |  |
| A) shortest path algorithm | B) distance vector algorithm |
| C) link state algorithm | D) all of the mentioned |
| Q. 11) | When the load in the network reaches the network capacity, the packet delay \_\_\_\_\_\_\_\_\_\_\_\_ and the network throughput reaches \_\_\_\_\_\_. | |  |
| A) increases sharply; its minimum | B) increases sharply; its maximum |
| C) decreases sharply; its minimum | D) decreases sharply; its maximum |
| Q.12) | In open loop congestion control, policies are applied | |  |
| A) to prevent congestion before it happens | B) to alleviate congestion after it happens |
| C) to either prevent congestion before it happens or to alleviate congestion after it happens | D) None of the choices are correct |
| Q. 13) | The \_\_\_\_\_\_\_\_\_\_ technique is one of the open loop congestion policy. | |  |
| A) back pressure | B) choke packet |
| C) implicit signaling | D) None of the choices are correct |
| Q. 14) | In the OSI model, what is the main function of the transport layer? | |  |
| A) node-to-node delivery | B) process-to-process message delivery |
| C) synchronization | D) updating and maintenance of routing tables |
| Q. 15) | IPv6 has \_\_\_\_\_\_\_ -bit addresses. | |  |
| A) 32 | B) 16 |
| C) 128 | D) 64 |
| Q. 16) | Find the class of address. 120.10.200.0 | |  |
| A) B | B) A |
| C) D | D) C |
| Q. 17) | The \_\_\_\_\_\_\_\_\_\_\_ technique is one of the close loop congestion policy. | |  |
| A) Acknowledgement policy | B) choke packet |
| C) discarding policy | D) none of the above |
| Q. 18) | A port number is \_\_\_\_\_\_ bits long. | |  |
| A) 8 | B) 16 |
| C) 32 | D) 64 |
| Q. 19) | Which is not a valid LAN topology? | |  |
| A) Star | B) Rectangle |
| C) Ring | D) Bus |
| Q. 20) | The network layer is concerned with \_\_\_\_\_\_\_\_\_\_ of data. | |  |
| A) bits | B) frames |
| C) packets | D) bytes |
| Q.21) | The data link layer takes the packets from \_\_\_\_\_\_\_\_\_ and encapsulates them into frames for transmission. | |  |
| A) network layer | B) physical layer |
| C) transport layer | D) application layer |
| Q. 22) | A 4-byte IP address consists of \_\_\_\_\_\_\_\_\_\_ | |  |
| A) only network address | B) only host address |
| C)  network address & host address | D) network address & MAC address |
| Q. 23) | Physical or logical arrangement of network is \_\_\_\_\_\_\_\_\_\_ | |  |
| A) Topology | B)  Routing |
| C) Networking | D) Control |
| Q. 24) | Transmission delay does not depend on \_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |
| A) Packet length | B) Distance between the routers |
| C) Transmission rate | D) Bandwidth of medium |
| Q. 25) | Which is not a application layer protocol? | |  |
| A) HTTP | B) SMTP |
| C) FTP | D) TCP |

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| --- | --- |
| **Q. No.** | **Answer** |
| 1 | c |
| 2 | c |
| 3 | b |
| 4 | c |
| 5 | c |
| 6 | b |
| 7 | c |
| 8 | a |
| 9 | d |
| 10 | d |
| 11 | a |
| 12 | a |
| 13 | d |
| 14 | b |
| 15 | c |
| 16 | b |
| 17 | b |
| 18 | b |
| 19 | b |
| 20 | c |
| 21 | a |
| 22 | c |
| 23 | a |
| 24 | b |
| 25 | d |

**ANSWER KEY**