



**DM-003-004404**

Seat No. \_\_\_\_\_

**B. Sc. (IT) (Sem. IV) (CBCS)**

**Examination**

**April / May - 2015**

**Cs - 22 Computer Network Technology**

**Faculty Code : 003**

**Subject Code : 004404**

Time : Hours]

[Total Marks :

1 Answer following MCQ: 20

- (1) In the OSI reference model, as the data packet moves from the upper to lower layers headers are \_\_\_\_\_
- (a) Rearranged                      (b) Modified
- (c) Deleted                              (d) Added
- (2) \_\_\_\_\_ of the following allows client to update their DNS entry when their IP address will change.
- (a) Dynamic DNS
- (b) Static DNS
- (c) Mail Transfer Server
- (d) None of these
- (3) A Web cookie is a \_\_\_\_\_
- (a) Sent from root server to all servers
- (b) Sent from user and stored in the server while a user is browsing a website
- (c) Sent from a website and stored in user's web browser while a user is browsing a website
- (d) None of these

- (4) ATM is a \_\_\_\_\_ type of technology.
- (a) Packet Switching    (b) Circuit Switching
- (c) Narrow Band        (d) Radio Broadcasting
- (5) The task of DHCP server is \_\_\_\_\_
- (a) Maintains a database of available IP addresses
- (b) Maintains the information about client configuration parameters
- (c) Grants a IP address when receives a request from a client
- (d) All of the above
- (6) \_\_\_\_\_ Protocol provides the synchronization between media streams.
- (a) RTP                      (b) TFTP
- (c) RTCP                    (d) SMTP
- (7) The default connection type used for HTTP is
- (a) Persistent              (b) Non-Persistent
- (c) Either of these        (d) None of these
- (8) FTP uses \_\_\_\_\_ parallel TCP connections to transfer a file.
- (a) 1                          (b) 2
- (c) 3                          (d) 4

(9) SMTP is used to deliver messages to \_\_\_\_\_

- (a) User's terminal      (b) User's mailbox
- (c) Both (a) and (b)    (d) None of these

(10) Which of the following is private IP address?

- (a) 12.0.0.1              (b) 168.172.19.39
- (c) 172.15.14.36        (d) 192.168.44.32

(11) TFTP stands for \_\_\_\_\_

- (a) Trivial File Transfer Protocol
- (b) Terrific File Trained Protocol
- (c) Terminate File Transfer Protocol
- (d) Trail File Transfer Protocol

(12) Frame relay has error detection at the \_\_\_\_\_.

- (a) Application Layer    (b) Session Layer
- (c) Transport Layer      (d) Data Link Layer

(13) The size of IP address in IPV6 is \_\_\_\_\_.

- (a) 4 bytes                (b) 8 bytes
- (c) 128 bits               (d) 120 bits

- (14) Bluetooth is the wireless technology for \_\_\_\_\_.
- (a) Local Area Network
  - (b) Personal Area Network
  - (c) Wide Area Network
  - (d) All of these
- (15) The Access Point (AP) in Wireless Networking is \_\_\_\_\_.
- (a) Wireless devices itself
  - (b) Wireless Server
  - (c) Device that allows wireless devices to connect to a wired network
  - (d) Both (a) & (b)
- (16) \_\_\_\_\_ is the meaning of Bandwidth in network.
- (a) Connected computers in network
  - (b) Connected servers in network
  - (c) Transmission capacity of a communication channels
  - (d) None of these
- (17) ICMP Protocol is mainly used for \_\_\_\_\_.
- (a) Addressing the host
  - (b) Error and Diagnostic functions
  - (c) Forwarding the packets
  - (d) All of these

- (18) \_\_\_\_\_ of the following delay is there when packet is moved from one end system to another.
- (a) Transmission delay (b) Queuing delay  
(c) Propagation delay (d) All of these
- (19) \_\_\_\_\_ of the following is a transport layer protocol used in internet.
- (a) TCP (b) UDP  
(c) Both A & B (d) None of these
- (20) An endpoint of an internal communication across a computer network is called \_\_\_\_\_.
- (a) Socket (b) Pipe  
(c) Port (d) All of these

**2** Answer following questions:

(A) Write **any three** out of six:

**6**

- (1) List the various classes of IP addressing.
- (2) Explain MAC address and IP address.
- (3) Differentiate: IPV4 vs. IPV6
- (4) Describe the format of RTP and RTCP packets.
- (5) What is the difference between TFTP and FTP application layer protocols?
- (6) Explain Subnet mask.

(B) Write **any three** out of six: **9**

- (1) Differentiate : ARP vs. RARP
- (2) Explain Piconet and Scattemet within Bluetooth.
- (3) Describe Domain name system (DNS).
- (4) Explain the types of Wireless Transmission in detail.
- (5) Discuss different factors affecting Congestion Control.
- (6) List out differences between UDP and TCP.

(C) Write **any two** out of five: **10**

- (1) Explain DHCP in detail.
- (2) Explain Bootstrap Protocol.
- (3) Explain TCP/IP with all its headers.
- (4) What is Multiplexing? Explain any two multiplexing techniques in detail.
- (5) Define various services of Electronic mail.

**3** Answer following questions:

(A) Write any three out of six:

- (1) Explain the term 'Pairing' in Bluetooth.
- (2) What is anonymous FTP?
- (3) Explain the need of Firewall in networking.
- (4) What is the difference between CSMA/CA and CSMA/CD?
- (5) Differentiate: Connection- oriented and Connection-less Internetworking
- (6) What do you mean by Fragmentation? Explain.

(B) Write **any three** out of six: **9**

- (1) What is the role of IEEE in computer networking?
- (2) List out Performance issues of Networking.
- (3) Differentiate: Unicast, Multicast, Broadcast
- (4) Explain queuing in Congestion control.
- (5) What are the difference between Static and Dynamic Web pages?
- (6) State HTTP as a State less Protocol.

(C) Write **any two** out of five: **10**

- (1) What is ICMP? Explain it with all its headers.
- (2) Explain Remote Login in detail.
- (3) How to make streaming on stored Audio and Video?
- (4) Explain Architecture of E-mail.
- (5) List out the steps to configure Mail Server.

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