



DDD-003-007204 Seat No. _____

M. C. A. (Sem. II) (CBCS) Examination

May/June - 2015

CCA : 2004 : Computer Network

Faculty Code : 003

Subject Code : 007204

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70]

1 Answer the following multiple choice questions : 15

- [1] The network layer concerns with
 - (A) Bits
 - (B) Frames
 - (C) Packets
 - (D) None of the above
- [2] What is the use of Bridge in network?
 - (A) To connect LAN
 - (B) To separate LAN
 - (C) To control network speed
 - (D) All of the above
- [3] Repeater operates in which layer of the OSI model?
 - (A) Physical layer
 - (B) Data link layer
 - (C) Network layer
 - (D) Transport layer
- [4] Which of the following TCP/IP protocol is used for transferring electronic mail messages from one machine to another?
 - (A) FTP
 - (B) SNMP
 - (C) SMTP
 - (D) RPC

[5] In mesh topology, relationship between one device and another is _____.
(A) Primary to peer
(B) Peer to primary
(C) Primary to secondary
(D) Peer to Peer

[6] The loss of power a signal suffers as it travels from the transmitting computer to a receiving computer is:
(A) Echo
(B) Jitter
(C) Spiking
(D) Attenuation

[7] Coaxial cables are widely used in
(A) Telephone networks
(B) Cable TV networks
(C) Broadband networks
(D) None of the above

[8] Which of the following network devices/systems translates data from one format to another?
(A) Hub
(B) DHCP server
(C) Gateway
(D) NIC

[9] Twisting of wire reduces _____.
(A) Interference
(B) Impulse noise
(C) Low frequency interference
(D) None of the above

[10] The highest data rate is provided by which of the following medium?
(A) Coaxial cable
(B) Optical fiber
(C) Microwave
(D) None of the above

[11] Which of the following devices modulates digital signals into analog signals that can be sent over traditional telephone lines?

- (A) Router
- (B) Modem
- (C) Gateway
- (D) Switch

[12] Which of the following are network services?

- (A) File service
- (B) Print service
- (C) Database service
- (D) All of the above

[13] If all devices are connected to central hub, then topology is called _____.

- (A) Bus topology
- (B) Ring topology
- (C) Star topology
- (D) Tree topology

[14] In OSI network architecture, the dialogue control and token management are responsibility of

- (A) Session layer
- (B) Network layer
- (C) Transport layer
- (D) Data link layer

[15] Which of the following TCP/IP protocol is used for transferring electronic mail messages from one machine to another?

- (A) Hub
- (B) Bridge
- (C) Gateway
- (D) Repeater

2 Attempt Any Five of the following : 15

- [1] Define : LAN & WAN
- [2] Define : Distributed Computing
- [3] What is TDM?
- [4] What is Active Hub?
- [5] Define: Synchronous transmission.
- [6] Define : Bandwidth, Attenuation.

3 Attempt Any Three of the following : 15

- [1] Explain Characteristics, Cost, Installation, Requirements, Bandwidth Band Usage, Attenuation and Electromagnetic Interference of Coaxial cable.
- [2] Explain in brief client/server and peer to peer computing.
- [3] Explain token passing access method. Differentiate it with contention polling method.
- [4] Write a note on link state routing and distance vector routing.

4 Attempt Any Two of the following : 15

- [1] Explain in detail Router and Bridge connectivity devices.
- [2] Explain packet switching and message switching.
- [3] Explain various protocols of TCP/IP protocol suite.

5 Attempt Any One of the following : 10

- [1] Explain in detail OSI Reference Model and all its layers.
- [2] List and explain various network topologies and explain in detail any two topologies.
