



**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, Aftenuation 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.
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