



**AAQ-003-003409**      Seat No. \_\_\_\_\_

## B. C. A. (Sem. IV) (CBCS) Examination

April / May – 2016

# **CS-21 : Network Technology & Administration (New Course)**

Faculty Code : 003  
Subject Code : 003409

Time :  $2\frac{1}{2}$  Hours] [Total Marks : 70

**Instructions:** (1) All MCQ questions are compulsory.  
(2) Write down the correct option (A,B,C,D) in main answer sheet.

1 MCQ questions : 20

1. Full form of CSMA/CD is \_\_\_\_\_.  
(A) Carrier Sense Multiple Access with Collision Detection  
(B) Carrier Sense Multilevel Access with Collision Detection  
(C) Carrier Sense Multiple Access with Collision Declaration  
(D) Carrier Sense Multilevel Access with Collision Declaration
2. Full form of FDDI is \_\_\_\_\_.  
(A) Fiber Distributed Data Interchange  
(B) Fiber Distributed Data Interface  
(C) Final Data Distribution Interface  
(D) Final Data Distribution Interchange

3. Net Meeting is a software application for \_\_\_\_\_.

- (A) Audio Conferencing
- (B) Video Conferencing
- (C) Both (A) and (B)
- (D) None of Above

4. In TCP/IP network model, the transport layer is also known as \_\_\_\_\_.

- (A) Network Layer
- (B) Interconnection Layer
- (C) Peer to Peer Layer
- (D) Host to Host Layer

5. Bluetooth, Infrared, Wi-Fi... are the examples of \_\_\_\_\_.

- (A) Unguided Media
- (B) Guided Media
- (C) Both (A) and (B)
- (D) None of Above

6. Which Transmission Media strictly prefers that the transmitter and receiver of electromagnetic waves should be in "line of sight"?

- (A) Radio Waves
- (B) Micro Waves
- (C) Wi-Fi
- (D) Bluetooth

7. \_\_\_\_\_ is the number of occurrences of a repeating event per unit time.

- (A) Bandwidth
- (B) Wavelength
- (C) Frequency
- (D) Synchronization

8. In switching technology, \_\_\_\_\_ method use the dedicated path for communication channel once established.

- (A) Message Switching
- (B) Packet Switching
- (C) Datagram Switching
- (D) None of Above

9. MODEM is used \_\_\_\_\_.

- (A) to convert digital signals into analog signals
- (B) to connect in school/college campus LAN
- (C) to transmit the data inside only one network
- (D) to convert high frequency signals into low frequency signals

10. Repeater is used at which Layer?

- (A) Data Link Layer
- (B) Physical Layer
- (C) Network Layer
- (D) Transport Layer

11. The Protocol is \_\_\_\_\_.

- (A) Set of Transmission Media and cables
- (B) Collection of different resources
- (C) Set of Rules and Regulations to transfer data
- (D) Founder of different pathway in network

12. The full form of UDP is \_\_\_\_\_.

- (A) User Defined Protocol
- (B) User Derived Protocol
- (C) User Database Protocol
- (D) User Datagram Protocol

13. \_\_\_\_\_ is routing process where router uses a manually configured routing entry.

- (A) Static Routing
- (B) Dynamic Routing
- (C) Default Routing
- (D) None of Above

14. OSPF stands for \_\_\_\_\_.

- (A) Open Shortest Path First
- (B) Open Shortest Path Finally
- (C) Open System Path Finder
- (D) Open System Parameter Finder

15. The full form of DHCP is \_\_\_\_\_.

- (A) Dynamic Host Calculation Protocol
- (B) Dynamic Host Configuration Protocol
- (C) Dynamic House Configuration Protocol
- (D) Dynamic House Calculation Protocol

16. What is Masking?

- (A) It is a process that extracts the address of the logical network from an IP address
- (B) It is a process that extracts the address of the physical network from an IP address
- (C) It is a process to combine logical and physical address in network
- (D) None of Above

17. Special feature in Windows 2008 Server - Enterprise edition that once we entered the User Name and Password at the time of installation, windows will not allow us to change that password in future. Justify the sentence.

- (A) 50-50
- (B) TRUE
- (C) FALSE
- (D) Can't Say

18. In RJ Connector, the full form of RJ is \_\_\_\_\_.  
(A) Regular Jack  
(B) Regular Joint  
(C) Registered Jack  
(D) None of Above

19. Authentication means \_\_\_\_\_.  
(A) Act of Confirming Truth  
(B) Checking the attributes of data or entity  
(C) Identification of originality  
(D) All of Above

20. Who is the owner of Internet?  
(A) Mark Zukerberg  
(B) Bill Gates  
(C) Aziz Premji  
(D) No one owns internet

2 (a) Answer any THREE from the following : 6

1. What is network? Explain the use of Network.
2. Define: Transmission Media.
3. Explain any one Network Access Method.
4. Explain: Ping command
5. Explain the difference between Layer 2 Switch and Layer 3 Switch.
6. What is Net meeting? Explain in brief.

(b) Answer any THREE from the following. 9

1. Explain Communication Methods in networking.
2. Write a note on types of Switching technology.
3. What is the difference between Connection Less and Connection Oriented Protocol? Explain with example.
4. Explain in brief TCP/IP network model with 4 layers.
5. Write a short note on Router.
6. What do you mean by Unguided Media?

(c) Answer any TWO from the following. 10

1. What is Multiplexing? Explain types of Multiplexing.
2. What is Network Topology? Discuss different types of topologies with diagram.
3. Write a note on OSI reference model with 7 Layers.
4. Write a note on Guided Media as a Transmission Media and discuss different types of cables used in networking.
5. What is LAN Card? Why it is known as Layer 1 device?

3 (a) Answer any THREE from the following. 6

1. Define: Packets and Protocols.
2. What is Dial up technology?
3. What is Routing? Why we need Routing?
4. Define : Policy, Standard and Procedures
5. Define: Subnetting and Supernetting
6. Write down different Logging Events in Windows Server 2008.

(b) Answer any THREE from the following. 9

1. What is Routing? Explain the types of Routing.
2. What is IP Address? Explain the types of IP Address.
3. Write a short note on CCTV technology with its advantages.
4. Explain the concept of Proxy Server and Firewall.
5. What is Network Security? Why we require network security?
6. Write a brief note on MMC - Microsoft Management Console.

(c) Answer any TWO from the following. 10

1. List out the different Protocols available in TCP/IP Stack. Give brief idea.
2. What is Routing Protocol? Explain BGP as a Exterior Routing Protocol.
3. Explain the concept of Domain, Tree and Forest in Windows 2008 Server.
4. Write a short note on CIA model considering security aspect.
5. What is VPN? Explain the types of VPN.

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