RAI-003-003409    Seat No. _____

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

March / April - 2019

## CS-21 : Network Technology & Administration

### (Old Course)

**Faculty Code : 003**
**Subject Code : 003409**

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

1    Answer the following :                                                      **20**

(1)   Give full form of CDDI.

(2)   What is packet ?

(3)   EIGRP stands for _____.

(4)   Give full form of SMTP.

(5)   Which protocol provides mapping from IP address to MAC address ?

(6)   What is tree ?

(7)   Fiber optic cable is more costly then Twisted Pair cable (True/False)

(8)   Give full form of ISDN.

(9)   IPv6 contains 129 bits address (True/False)

(10)  _____ topology is most useful in local area network.

(11)  Give full form of CCTV.

(12)  What is Network Security?

(13)  Give full form of TDM.

(14)  UDP is Connection Oriented Protocol. (True/False)

(15)  Give full form of GPS.

(16)  What is MODEM ?

(17)  What is IP address ?

(18)  Give full form of BGP.

(19)  Give full form of ADSL.

(20)  TCP/IP network model contains _____ layers.

**2**  (a)  Answer any three :                                              **6**

    (1)  Define: Repeater.

    (2)  Mutiplexing v/s Demultiplexing.

    (3)  What is peer-to-peer network model ?

    (4)  Describe types of IP address in brief.

    (5)  What is Net Meeting ?

    (6)  Define : Transmission Media.

  (b)  Answer any three :                                            **9**

    (1)  Explain Fiber Optic Cable.

    (2)  Explain Ring and Star Topologies.

    (3)  List out Switching Techniques. Explain any one in detail.

    (4)  What is Hub ? Explain types of Hub.

    (5)  Explain IPX/SPX in detail.

    (6)  Explain Encryption in detail.

  (c)  Answer any two :                                             **10**

    (1)  Write a short note on OSI Reference Model.

    (2)  Explain Network Communication Methods.

    (3)  What is Multiplexing ? Explain any two types of Multiplexing.

    (4)  Explain Router, Switch and Bridge.

    (5)  What is VPN ? Explain types of VPN.

**3**  (a)  Answer any three :                                              **6**

    (1)  What is Protocol ?

    (2)  Define Logging Events.

    (3)  Write down requirements of Network Security.

    (4)  What is GPRS ?

    (5)  Define : Link State Routing.

    (6)  What is Internet ?

(b) Answer any three : **9**

   (1) Define CIA model.

   (2) Explain RIP.

   (3) IPv4 v/s IPv6.

   (4) Explain MMC in detail.

   (5) Explain Proxy Server and Firewall.

   (6) Explain Sub Netting.

(c) Answer any two : **10**

   (1) What is Routing ? Explain types of Routing.

   (2) Explain Cryptography in detail.

   (3) Explain TCP/IP Stack.

   (4) Explain Bluetooth and Infrared Technologies.

   (5) Explain Accounts in Windows 2008 server.

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