

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(IT) (2015 Batch) (Sem.-4)

COMPUTER NETWORKS

Subject Code : BSIT-404

Paper ID : [74086]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A**1. Write briefly :**

- a) Explain the term De-multiplexing.
- b) Differentiate between parallel and serial transmission.
- c) Write the advantages of Bus network topology.
- d) Write the advantage and disadvantage of Infrared transmission.
- e) Define the term Flow control.
- f) Differentiate between Packet and Frame.
- g) What is the function of Presentation layer in OSI Reference Model?
- h) Explain the term CSMA/CA.
- i) Explain the term Gigabit Ethernet.
- j) Define the term congestion control.

SECTION-B

2. Write a detailed note on Ring, Star and Mesh network topologies. Also write their advantages and disadvantages. (10)
3. Write a detailed note on Circuit Switching, Message Switching and Packet Switching. (10)
4. Explain TCP/IP Reference Model in detail. Also compare OSI and TCP/IP Reference Models. (10)
5. a) Write a brief note on LAN, MAN and WAN. (5)
b) Write a detailed note on PPP (The Point-to-Point Protocol). (5)
6. Write a detailed note on FDM, TDM and CDMA techniques of multiplexing. (10)
7. Write a detailed note on Network Layer Design Issues. (10)

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