

ST. JOSEPH'S EVENING COLLEGE (AUTONOMOUS)
IV SEMESTER BCA EXAMINATIONS APRIL 2018

COMPUTER NETWORKS - I

Duration: 2.5 Hours

Max. Marks: 70

SECTION - A

I) Answer any SIX of the following questions. (6x3=18)

1. Differentiate internet and intranet.
2. List the various OSI model layers. Define protocol stack model.
3. Define segmentation and Port addressing.
4. Write the different categories of twisted pair cable.
5. Expand PSTN. Write the functions of MSC.
6. Write the properties of micro wave
7. Write the format of traditional Ethernet frame. Define Preamble and SFD
8. Describe DNS.

SECTION - B

II) Answer any FOUR of the following questions. (4x8=32)

9. Explain briefly the following with diagram:
 - a. Flow of direction in data communication.
 - b. Types of connection in interconnecting devices
10. Explain the following:
 - a. Define the process of Multiplexing.
 - b. Carrier frequency.
 - c. Functions of modulator.
 - d. FDM.
11. Explain Fiber optic cable in detail with diagram.
12. Explain Physical layer implementation of Fast Ethernet.
13. Write a note on various digital to analog modulation techniques.
14. Explain Client server Architecture.

SECTION - C

III) Answer any TWO of the following questions. (2x10=20)

15. Explain TCP/IP model in detail.
16. Explain the following:
 - a. Explain Bluetooth in detail.
 - b. Cellular networks.
17. Explain congestion. Discuss Leaky bucket algorithm in detail.