

VI Semester B.Sc. Examination, May/June - 2016

(Semester Scheme)

COMPUTER SCIENCE

Computer Networks (Paper - VIII)

Time : 3 Hours

Max. Marks : 80

Instruction : Answer any two full questions from Part - A, Part - B and Part - C.

PART - A

- Q1) a) Explain the components of Data Communications. [6]
b) Compare half duplex with full duplex transmission mode. [4]
- Q2) a) Explain ASK. [4]
b) Write a note on Manchester Encoding. [6]
- Q3) a) Explain the working principle and applications of fiber optic cable. [7]
b) Give an account of Micro Wave Transmission system. [3]

PART - B

- Q4) Write the general functions of 7 - Layers in OSI model. [10]
- Q5) a) Write the significance of [5]
i) Bridge and
ii) Router
b) Compare Dynamic IP addressing and Static IP addressing. [5]
- Q6) Explain the role of [10]
a) TCP
b) POP3
c) FTP
d) ARP

PART - C

- Q7) a) Describe connection less mode packet switching. [5]
b) Explain Routing process. [5]
- Q8) Explain Dijkstra's algorithm. [10]
- Q9) a) What do you mean by congestion control? Explain any one algorithm to control congestion. [6]
b) Write a note on Hamming code. [4]

PART - D

Answer any five of the following :

[5 × 4 = 20]

Q10) What is Network Topology? Explain any one.

Q11) Write a note on NRZ.

Q12) Write a note on ALOHA

Q13) Explain the role of ICMP and IGMP.

Q14) Explain Routing Table.

Q15) What do you mean by redundancy? Explain.

