VI Semester B. Sc. Examination, May/June - 2017
(Semester Scheme) (2013-14 Batch onwards)
COMPUTER SCIENCE (Paper - VIII)
Computer Networks

Time : 3 Hours   Max. Marks : 80

Instruction : *Answer any two questions from Part-A, Part-B, Part-C and Part-D is compulsory.*

Part - A

1. Explain any four topologies with their advantages and disadvantages.   [10]

2. i)   Explain Frequency shift Keying.   [5]

    ii)   Explain Unipolar NRZ coding scheme.   [5]

3. i)   With a neat diagram, explain the working of Twisted pair cable.   [6]

    ii)   Write a note on Infrared Transmission.   [4]

Part - B

4. i)   Explain the functions of Transport Layer and Session Layer. of OSI model.   [6]

    ii)   Explain the functions of a repeater.   [4]

5. i)   Explain the working of Bridges.   [5]

    ii)   What are the different types of IP addresses? Explain.   [5]

P.T.O.

6. Explain FTP, HTTP, TCP and UDP.   [10]

Part - C

7. i) Explain Network layer.   [5]

    ii) Explain the working of a packet switching Networks.   [5]

8. Explain leaky Bucket algorithm with a neat diagram.   [10]

9. Explain the Hamming code correction method with an example.   [10]

Part - D

Answer any five questions.   [5 × 4 = 20]

10. Differentiate LAN and WAN.

11. Explain Baseband Transmission.

12. Distinguish between IPV4 and IPV6.

13. Write a note on SNMP and SMTP.

14. Explain Link state Routing.

15. Differentiate single Bit error and Burst error.