Reg. No.

V Semester B.C.A 3 Degree Examination, Nov./Dec. - 2019
COMPUTER NETWORK
(Repeater)
PAPER (BCA 3)

Time : 3 Hours   Maximum Marks : 80

SECTION-A

Answer any **TEN** of the following: (10×2=20)

1. a)   Mention the applications of computer network.

    b)   What is MAN?

    c)   What is topology? give example.

    d)   What is the difference between circuit switching and packet switching?

    e)   What is flow control?

    f)   What is static and dynamic channel allocation?

    g)   What is hamming code?

    h)   What is Bluetooth?

    i)   Mention the types of ethernet.

    j)   What is Congestion?

    k)   What is link state routing algorithm?

    l)   Mention the transport service primitives.

SECTION - B

Answer any **FOUR** questions: (4×5=20)

2.   Explain TCP/IP Reference model with an neat diagram.

3.   Explain Frequency division multiplexing?

4.   Explain cyclic Redundancy check method for error detection with an example.

5.   Explain flag bits with bit stuffing framing method.

6.   Explain hierarchical routing algorithm.

7.   Explain Three -way handshake in transport layer.

P.T.O.

SECTION- C

Answer any **FOUR** of the following: (4×10=40)

8. Explain OSI Reference model with a neat diagram.

9. Explain various types of transmission media in detail.

10. Explain GO- Back -N and selective Repeat sliding window protocol.

11. Explain the following:

    a) Leaky Bucket algorithm

    b) Pure and slotted ALOHA.

12. Write a note on:

    a) TCP and UDP

    b) Wireless LAN.