21BCA3C9CML

B.C.A. III Semester Degree Examination, April/May - 2024
COMPUTER SCIENCE
DSC - 9 : Computer Communication and Networks
(NEP)

Time : 2 Hours   Maximum Marks : 60

SECTION - A

1. Answer **all** the questions. Each question carries **one** mark.   **10x1=10**

    (a) What is a network ?

    (b) Expand the terms HTTP and SMTP.

    (c) Mention the modes of propagation.

    (d) What is circuit switching ?

    (e) Write the main functionality of data link layer.

    (f) List the types of Noisy Channel.

    (g) What is routing ?

    (h) Define flooding.

    (i) Write the format of user Datagram.

    (j) What is browser ?

SECTION - B

Answer **any four** of the following questions. Each question carries **five** marks.

4x5=20

2. Describe the client server architecture with a neat diagram.

3. Explain steps involved in CRC (Cyclic Redundant check) error detection.

4. Write a short note on fiber optics.

5. Explain selective Repeat ARQ with sliding window.

6. What is congestion ? Explain Leaky Bucket algorithm.

7. Write the differences between TCP and UDP.

SECTION - C

Answer **any three** of the following questions. Each question carries **ten** marks.

3x10=30

8. Define Topology. Explain any four topologies with neat diagram.

9. What is multiplexing and demultiplexing ? Explain WDM (wavelength Division Multiplexing)

10. Explain the checksum error detection with an example.

11. Write a note on Distance vector routing algorithm and Link state routing algorithm.

12. Explain the working of E-mail in detail.

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