QUESTION BANK

IMPORTANT REPEATED QUESTION ON COMPUTER COMMUNICATION NETWORK

UNIT: 1

1. What is Computer network and its applications.
2. Describe Network Architecture.
3. Describe Topologies, explain Any 5 Types.
4. Describe LAN, WAN, MAN.
5. Describe OSI-Reference Model.
6. Describe TCP-IP Model

UNIT-2

1. Describe Twisted Pair Cable.
2. Describe Coaxial cable.
3. Describe Optical Fiber
4. Write a Short note on radio Transmission
5. Write a short note on microwaves and Infrared transmission.
6. What is Switching, Describe Message Switching.
7. Describe Multiplexing.

UNIT-3

1. Explain the data Link Layer Design Issues.
2. Describe Parity checking, with an example.
3. What is checksum, Solve the example 10011001 11100010 00100100 10000100, k=4 m=8.
4. What is CRC, a) actual bit string transmitted b) check correct data received,

   1101011011 – Original Data

   X4 + X + 1 --- Polynomial Code.

5. What is bit Stuffing, Solve the given data below using bit stuffing

   Original data : 01001111110111111

   Special bit Pattern : 01111110

6. What is Flag byte, Stuff the below Problem using flag byte.

   Original Character

   A ESC B

   A FLAG B

   A ESC FLAG B

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7. Describe Sliding Window Protocol.

8. What is Hamming Code, Explain with an Example.
9. Write a short note on Elementary Data link protocol.

UNIT: 4

1. Explain about Network Layer Design Issues.
2. Describe Leaky Bucket Algorithm with Diagram.
3. Describe Token Bucket Algorithm with Diagram.
4. Write a short Note on Flooding.
5. Explain Distance Vector Routing with an Example.
6. Explain Hierarchical Vector Routing with an Example.
7. Explain Link State Routing with an Example.
8. Explain Hop by Hop choke packets
9. Write a short note on admission control using congestion. With an example.

UNIT: 5

1. What are the Elements of Transport Protocols.
2. What is TCP and UDP.
3. Write a Short Note on DNS.
4. Write a Short Note on WWW.
5. Write a Short Note on Electronic Mail.