COMPUTER NETWORKS

Duration : 2 hours   Marks: 50

Q I) A. Define the following terms: (05*01=05)
    1. MAN   2. Broadcasting   3. Error Control
    4. Repeater   5. IGMP
  B. Answer the following:
    1. Briefly explain the functions of Network Layer   (2)
    2. State and explain different types of Unguided transmission media.   (3)

QII) Answer the following:
    1. Explain with a neat diagram OSI Reference Model.   (5)
    2. What are Twisted Pair Cables? State and Explain types of Twisted
      Pair Cables.   (3)
    3. Write a short note on Bus Topology.   (2)

QIII) Answer the following:
    1. Write a short note on Virtual Circuits.   (2)
    2. Explain Working of Datagram Subnet.   (3)
    3. Explain in detail Sliding Window Protocol.   (5)

QIV) Answer the following:
    1. Illustrate with an example working of Distance Vector Routing
      Algorithm.   (5)
    2. Explain in detail IPv4 header frame format.   (5)

QV) Answer the following:
    1. Write a Short note on Principles of Cryptography.   (2)
    2. What is DNS? Explain DNS Namespace.   (3)
    3. With the help of Diagram explain TCP Header format in detail.   (5)

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