COMPUTER NETWORKS

Duration : 2 Hours   **Marks : 50**

Instructions:
1. All questions are compulsory.
2. Figures to the right indicate Full Marks.

Q . I . A) Define the following terms :   (5*1=5)
1. Flooding
2. Remote Computing
3. Mesh Topology
4. Full Duplex
5. Properties of Protocol.

B) Answer the following in one /two sentences each.   (5*1=5)
1. What is frame Synchronization?
2. List out the functions of TCP/IP.
3. List the different encoding techniques.
4. What are the ways to address the framing problem?
5. What are the responsibilities of session layer?

Q . II) Answer the following :
1. List out the different transmission media.   (2)
2. Compare packet and frame relationship .   (3)
3. Explain guided and unguided transmission medium.   (5)

Q . III) Answer the following :
1. What is RPC?   (2)
2. Explain the services provided by the session layer.   (3)
3. Explain the working of sliding window protocol.   (5)

Q . IV) Answer the following :
1. What is adaptive and non adaptive routing algorithms?   (2)
2. Explain functions of the transport layer.   (3)
3. Explain in detail about the sliding window protocol.   (5)

Q . V) Answer the following :
1. Write a short note on DNS.   (2)
2. Explain SMTP.   (3)
3. Write about the principles of cryptography.   (5)

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