BCA 4th semester Examination Subject: COMPUTER NETWORK Paper: BCA-2205

Answer any one question from the following

- 1. a. What are the layers in OSI Reference Models? Describe each layer briefly
 - b. What is the difference between Hub, Switch, and Router?
 - c. What is DNS?
- 2. a. What is the difference between a Domain and a Workgroup?
 - b. What is a Proxy Server and how do they protect the computer network?
 - c. What are the functions of MAC?
- 3. a. Mention the function of go-back N-ARQ.
 - b. What are the different communication modes in HDLC?
 - c. Give the usage of I, S, U frames.
- 4. a. What are firewalls?
 - b. Describe star topology
 - c. What are gateways?
 - d. What is Ping?
- 5. a. What is the difference between CSMA/CD and CSMA/CA?
 - b. Explain Mesh Topology.
 - c. What are the benefits of the Hamming code?
 - d. What is Modem?
- 6. a. Differentiate between 'attenuation', 'distortion', and 'noise'.
 - b. Differentiate between static IP addressing and dynamic IP addressing.
 - c. Mention the maximum number of networks and hosts used in class A, B, and C network?
 - d. What are the different types of transmission media?