QUESTION BANK FOR TERM TEST 1  
  
SUBJECT: COMPUTER NETWORKS  
  
1. List and explain the layers in OSI model with suitable diagram.  
  
2. Explain different network topologies.  
  
3. With relevant example differentiate between simplex, half duplex and full duplex communication?  
  
4. Explain how hamming code can be used to correct burst errors.  
  
5. What is stop and wait ARQ protocol? Explain its drawbacks. Illustrate how they are overcome in go back N ARQ. State the relationship between these two.  
  
6. Differentiate between Go back N ARQ and Selective Repeat ARQ with suitable example.  
  
7. In the Hamming code, for a data unit of 'm' bits how do you compute the number of redundant bits 'r' needed?  
  
8. What is the need for data encoding and explain the various data encoding schemes and compare their features.  
  
9. Explain the various error detection and correction Mechanisms used in computer network.  
  
10. Explain framing methods.  
  
11. Discuss and compare various types of networks.  
  
12. Explain in brief about application layer.  
  
13. State the problems and applications of client server paradigm.  
  
14. State the merits, demerits and application of P2P paradigm.  
  
15. What is FTP? Explain the communication in FTP.  
  
16. What is domain name system? How does it work? Explain resolution process.  
  
17. Explain the non-persistent and persistent connections in HTTP.  
  
18. Problems based on parity bit, hamming code, CRC, polynomial