QUESTION BANK  
  
TERM TEST II  
  
COMPUTER NETWORKS  
  
1. Explain different categories of routing algorithms.  
  
2. What is IP addressing? How it is classified?  
  
3. How is subnet addressing is performed?  
  
4. What are the elements of transport protocols?  
  
5. Explain TCP Congestion Control and Congestion Avoidance.  
  
6. Write short note on:  
  
 i) Connection oriented and connectionless service  
  
 ii) Internet control protocols  
  
 iii) UDP   
  
 iv) Slow start  
  
 v) Count to infinity problem  
  
 vi) Three way handshaking  
  
7. Explain leaky bucket algorithm and compare it with token bucket algorithm.  
  
8. Explain different kinds of Switching techniques.  
  
9. Differentiate between Link state and Distance Vector Routing algorithm.  
  
10. Differentiate between static and dynamic channel allocation.  
  
11. What is the difference between network layer delivery and transport layer delivery?  
  
12. Explain Dijkstra Algorithm with example.  
  
13. What is compression? List different compression algorithms. Why adaptive Huffman is used?  
  
14. Describe lossy compression methods. Where we used lossy compression algorithms?  
  
15. Describe Huffman encoding procedure with example.  
  
16. Explain LZW compression algorithm with example.  
  
17. Short note on:  
  
 i) Speech compression  
  
 ii) Audio and video compression  
  
 iii) streamed stored audio and video  
  
 iv) JPEG, MPEG  
  
 v) Session layer design issues