CET 2 QUESTION BANK FOR ALL CLASS(CSE/IT/CSN/AI)

1. Briefly explain the functions of Data Link Layer.
2. Discuss different types of Framing Methods.
3. Discuss various Error detecting and correcting methods.
4. Explain CRC method with your own example.
5. Explain the TCP segment with diagram?
6. What is pure aloha and what is their delay percentage
7. Explain principles of reliable data transfer
8. What is meant by Flow control? Discuss different flow control methods.
9. Explain sliding window protocol.
10. Explain Go back 'n' and selective repeat protocols.
11. Prove that the channel utilization is 18% in ALOHA and 37% slotted ALOHA.
12. Explain different STOP and WAIT protocols.
13. What is multiplexing in transport layer and explain their work function
14. Explain selective repeat protocols
15. Explain router architecture and their component?
16. Explain CRC method with your own example
17. What is routing and name them four routing algorithms?
18. What is network service model
19. Explain the shortest path routing algorithm.
20. Explain the services that are provided by the network layer
21. What is congestion? Give the general principles of congestion control?
22. Explain Open loop and Close loop solutions for congestion.
23. How traffic shaping will be done to control congestion?
24. Explain The Leaky Bucket algorithm.
25. Explain the Token Bucket algorithm.
26. How the congestion can be controlled in Virtual Circuits
27. What are the responsibilities of Transport Layer?
28. What are the responsibilities of Network Layer?
29. Write Short Note on

IPV4 Addressing IPV6 Addressing

30. What are the types of class full addressing? And Function of each class address
31. What is meant by Flow control? Discuss different flow control methods.
32. Compare between datagram and virtual circuit?
33. What is TCP slow start approach explain it in brief.
34. What is the difference between the adaptive and non-adaptive routing algorithms.
35. Explain the shortest path routing algorithm.
36. Explain the services that are provided by the network layer.
37. Explain Flooding routing algorithm.
38. Explain the Distance Vector Routing algorithm.
39. What is the count – to – infinity problem?
40. Explain link state routing algorithm.
41. Explain the Hierarchical Routing algorithm.
42. Explain Broadcast Routing and Multicast Routing.