

SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.Tech – CSE/IT

Title of the paper: Data Communication and Computer Networks

Semester: V

Max. Marks: 80

Time: 3 Hours

Date: 26-11-2007

Session: FN

PART – A

(10 x 2 = 20)

Answer All the Questions

1. Mention the communication tasks involved in the communication model.
2. What do you mean by open statement in OSI-ISO model?
3. What are the functions performed by the Data link layer?
4. Give the different types of transmission media and its characteristics.
5. Distinguish the flow & error control.
6. Show 100 milliseconds in seconds, microseconds, nanoseconds & picoseconds.
7. Abbreviate FDDI, MIME, OSPF, and ICMP.
8. What is the purpose of gateways in networking?
9. Define distance vector routing.
10. Draw the process of Encryption/Decryption.

PART – B
Answer All the Questions

(5 x 12 = 60)

11. Explain
 - (a) Communication model
 - (b) Standard organizations

(or)
12. (a) Briefly describe the digital-to-digital modulations.
(b) Discuss OSI model.
13. Explain the concept of source coding & channel coding.

(or)
14. Describe the interface standards and functional units in DCE DTE.
15. Explain switching and compare their types with suitable diagrams.

(or)
16. Briefly describe the connection oriented and connection less services.
17. Discuss
 - (a) FDDI (b) Ethernet (c) Token bus (d) Token ring
 - (e) IEEE 802.6 (f) X.21 interface.

(or)
18. Briefly describe Session of upper OSI layer and ISDN.
19. Illustrate the functions of Network, Transport and Application layers.

(or)
20. Discuss Routing, WWW and TCP/IP.