## SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E - ITTitle of the paper: Data Communication and Computer NetworksSemester: VMax. Marks: 80Sub.Code: 414606Time: 3 HoursDate: 26-04-2007Session: FN

PART – A Answer ALL the Questions (10 x 2 = 20)

## 1. What is pulse code modulation?

- 2. Define the three transmission modes?
- 3. How does a single bit error differ from a burst error?
- 4. What is BSC protocol?
- 5. Differentiate space division switching and time division switching.
- 6. List the functions of FDDI.
- 7. What are the applications of ATM?
- 8. What are the X.25 layers?
- 9. What are the advantages of using UDP over TCP?
- 10. List the functions of Gateways.

PART – B

 $(5 \times 12 = 60)$ 

Answer All the Questions

- lestions
- 11. Explain the functions of the various layers of OSI model.

(or)

- 12. Explain the polar encoding technique of digital to digital conversion.
- 13. Discuss about the synchronous and asynchronous protocols in detail.

(or)

- 14. Compare the Vertical Redundancy and Longitudinal Redundancy Check in detail with examples.
- 15. Write notes on Ethernet.

(or)

- 16. Explain clearly the packet switching method as a solution for data transmission.
- 17. With a neat flowchart and required diagrams explain the leaky bucket algorithm.

(or)

- 18. Explain the architecture of ATM.
- 19. Discuss about the Simple Mail transfer Protocol in detail.

(or)

20. Explain in detail the features of Link state routing.