SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.Tech - IT	
Title of the paper: Telecommunication Systems	
Semester: V	Max.Marks: 80
Sub.Code: 412505-512505-612503	Time: 3 Hours
Date: 29-04-2009	Session: AN

PART – A Answer All the Questions

(10 x 2 = 20)

- 1. Define Effective area of an antenna.
- 2. What are the functions of Repeaters?
- 3. What are the disadvantages of Fiber Optic cable?
- 4. Mention the types of fiber optic cable.
- 5. Define Angle of elevation of a satellite.
- 6. What is the function of Transponder?
- 7. How many channels are allocated for the cordless telephone system by the FCC?
- 8. Draw the block diagram of a Paging System.
- 9. Define Hand off.
- 10. Draw the block diagram of Fax using Cellular phones.

PART – B Answer All the Questions

- 11. Explain the different types of antenna with their characteristics. (or)
- 12. Explain the Radio Frequency wave propagation in detail.
- 13. Explain how fiber optic cable works.

(or)

- 14. With block diagram explain the optical transmitter and receiver in detail.
- 15. Explain in detail about the Earth station with its block diagram.

(or)

- 16. Draw the block diagram of a TV Broadcasting system and explain.
- 17. Explain how the telephone works with its circuit diagram.

(or)

- 18. Explain the ISDN in detail.
- 19. Write short notes on:(a) AMPS(b) Citizen's Band Radio.

(or)

20. Explain with diagrams how digital cellular telephone system works.