ANNA PRATHIKHA

G 7155

(Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, APRIL 2011

Fifth Semester

Branch : Computer Science Engineering/Information Technology

DATA COMMUNICATION (R T)

(Supplementary)

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each questions carries 4 *marks.*

1. Differentiate PWM from PPM. Explain the difference.
2. State and explain Sampling theorem.
3. Explain the need and Principle of multiplexing.
4. State and derive Shannon's Theorem.
5. What is meant by Isochronous tranmission. Explain.
6. Differentiate Half Duplex from Full Duplex.
7. Explain in detail the basic principles of switching.
8. What are FEC adn ARQ ? Explain the difference in detail.
9. List and explain the components of Computer Communication.
10. Differentiate coaxial cable from fiber opticable.

(10 × 4 = 40 marks)

Part B

Each question carries 12 *marks.*

11. Explain the generation and principles of PCM with neat sketches.

Or

12. Explain in detail the generation of :
    (i) PAM.
    (ii) PWM.
    (iii) PPM.

(4 + 4 + 4 = 12 marks)

13. Draw a neat block schematic of TDM and explain its principle in detail.

Or

14. Differentiate TDM from FDM. Explain the difference.

Turn over

15. Discuss in detail the different types of noise with emphirical equations.

Or

16. Explain in detail the basic principles of circuit switching and message switching.

17. Explain the principle of linear block codes. Derive the algorithm.

Or

18. Give an account on EBCDIC and ASCII codes".

19. Explain the functioning of front end processor.

Or

20. Write technical notes on :

    (i) GSM system architecture. (4 marks)

    (ii) Concentrators. (4 marks)

    (iii) Twisted pair cable. (4 marks)

[5 × 12 = 60 marks]