Reg. No. :

Question Paper Code: 35423

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Fifth Semester

Electrical and Electronics Engineering

01UEC523 – COMMUNICATION ENGINEERING

(Common to EIE and ICE)

(Regulation 2013)

Duration: 1:45 hour   Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. What are the various types of AM?

2. Define Carson's rule.

3. How to prevent aliasing effect?

4. State the principle concept of DPCM.

5. Define entropy.

6. Calculate the Hamming distance between the following code words C_1= {1000111} and C_2= {0001011}.

7. Give the advantages of CDMA.

8. Define spread spectrum.

9. State the advantages of fiber optic system.

10. Tell about apogee and perigee.

11. Why cyclic codes are well suited for error detection?

12. Give the advantages of CDMA.

13. Define spread spectrum.

14. Tell about apogee and perigee.

15. What is SCADA?

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

11. Explain the generation of FM signal using reactance modulator with neat diagram. (10)

12. Explain in detail about FSK. (10)

13. Encode the data 01001110 using NRZ, RZ, AMI coding. (10)

14. Discuss in detail the concept of TDMA and SDMA and their applications in wire and wireless communication. (10)

15. Explain the block diagram of an optical fiber communication system. (10)