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Question Paper Code: 35423

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

Fifth Semester

Electrical and Electronics Engineering

14UEC523 – COMMUNICATION ENGINEERING

(Common to EIE and ICE)

(Regulation 2014)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Define standing wave ratio.
2. Define bit rate and baud rate.
3. Compare NRZ and RZ.
4. List the different types of handoffs.
5. Define numerical aperture.
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. With suitable sketch discuss about square law detector (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. Define and explain SCADA. (10)