

Reg. No. :

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 35401

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

Fifth Semester

Electronics and Communication Engineering

01UEC501 – DIGITAL COMMUNICATION

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Write short notes on channel classification. Give examples.
2. What is a sampling unit?
3. What is Inter Symbol Interference (ISI)?
4. Define QAM and draw its constellation diagram.
5. What is meant by frequency hop and types of hopping systems?
6. Define sampling theorem.
7. List down the advantages and disadvantages of digital communication.
8. What do you mean by the term Eye pattern?
9. Define QAM and draw its constellation diagram.
10. What is meant by frequency hop and types of hopping systems?
11. Write short notes on channel classification. Give examples.
12. What are the two fold effects of quantizing process?
13. What are the measurements that can be obtained from eye pattern?

14. Define QAM and draw its constellation diagram.
15. What is meant by frequency hop and types of hopping systems?

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Explain the geometric representation of signals. (10)
17. With neat block diagram, explain pulse code modulation and demodulation (10)
18. Derive and Explain the Nyquist first criterion to minimize ISI. (10)
19. Describe with diagrams the generation and detection of coherent binary FSK. Explain the probability of error for this scheme. (10)
20. Explain about the Frequency Hop-Spread Spectrum system in detail (10)