

Reg. No. :

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

Question Paper Code: 33806

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

Third Semester

Information Technology

01UIT306 - ANALOG AND 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. Define sensitivity and selectivity.
2. Draw the frequency spectrum and mention the bandwidth of AM signal.
3. Write the relationship between the minimum bandwidth required for an FSK system and the bit rate.
4. Compare binary PSK with QPSK.
5. Determine the relationship between the pulse rate and bit rate.
6. What does the term catastrophic cyclic code represent?
7. State sampling theorem.
8. How eye pattern is obtained?
9. List the various multiple access techniques.
10. Define pseudo noise sequence.
11. What does the term catastrophic cyclic code represent?
12. State sampling theorem.

13. Define companding.
- 14 List the various multiple access techniques.
15. Define pseudo noise sequence.

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. What is the principle of Frequency modulation? Derive expression for the FM wave and draw its spectrum. (10)
17. Explain the principle of FSK receiver. (10)
18. Explain the functional description of digital communication system in detail. (10)
19. What is pulse modulation? Discuss about various pulse modulation schemes. (10)
20. Explain the two types of FH spread spectrum systems with suitable diagrams. (10)