LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

(ICC)

B.Sc. DEGREE EXAMINATION - **COMPUTER SCIENCE**

FIFTH SEMESTER – **APRIL 2023**

CS 5506 - INTRODUCTION TO DATA COMMUNICATION

Da	te: 05-05-2023 Dept. No.	Max. : 100 Marks
	ne: 01:00 PM - 04:00 PM	
	PART – A	
Answe	r ALL questions:	$(10 \times 2 = 20 \text{ Marks})$
1	Define and classify standards.	
2	What is the use of Data Communication?	
3	Define IP address.	
4	What is Internetworks?	
5	Define Critical angle.	
6	Define the term Frequency.	
7	Mention any four Satellite types.	
8	What does analog leased service offer?	
9	List out the common methods of error detection.	
10	Define and classify errors.	
	PART – B	
Answ	rer ALL the questions:	$(5 \times 8 = 40 \text{ Marks})$
11	(a) List the types of transmission mode and enumerate any one in detail.	
	(Or)	
	(b) What are the components of a Data communication? Explain.	
12	(a) Briefly explain Periodic signals with an examples.	
	(Or)	
	(b) Explain Aperiodic signals with an examples.	
13	(a) How does NRZ L differ from NRZ I?	
	(Or)	
	(b) In detail, write about the terms DTE and DCE and its interface.	
14	(a) Optical fiber – Explain and Classify.	
	(Or)	
15	(b) Write a short note on Satellite Communication.(a) Describe the checksum methods.	
	(Or)	
	(b) With an example, explain the procedure for locating single bit error.	

PART - C

Answer any TWO questions:

 $(2 \times 20 = 40 \text{ Marks})$

- 16. (a) List out the types of topology and explain in detail.
 - (b) Explain the functions of the Transport Layer, Session Layer and presentation layer in the OSI reference model.
- 17. (a) Illustrate the functioning of EIA 232 with a neat sketch.
 - (b) Explain in detail about MODEM working mechanism with classification.
- 18. (a) List the error detection methods and explain any two in detail.
 - (b) With a neat sketch, explain in detail about types of network.
