B. Tech (Honours) (Artificial Intelligence/Data Science)

Class Test - 1, May, 2023

(AICTE Scheme)

(Computer Science and Engineering Branch)
Subject- Computer Network

(B127471(022))

Time Allowed: 2 hours

Maximum Marks: 40
Minimum Pass Marks: 14

Note:
    (i) Each question contains four parts. Part (1) of each question is compulsory. Attempt any two parts from (2), (3), and (4) of each question.
    (ii) The figure in the right-hand margin indicates marks.

I	(1) What is the difference between transmission mode and transmission media please make a list to all?	[2+2]
	(2) Discuss difference between OSI and TCP/IP model.	[8]
	(3) Short Notes: (a) Network hardware (b) X.25 and Frame relay	[4+4]
	(4) Please explain types of network topology in detail? **Or** Please explain types of computer networks in detail?	[8]
II	(1) What is Aloha (Pure/Slotted) and CSMA (CD/CA) method?	[2+2]
	(2) What is Flow control in data link layer please write all the methods with detail explanation?	[8]
	(3) What is Error control method please decode the received message 111101001 using the (7,4) Hamming code. What is the corrected message?	[8]
	(4) What is meant by Ethernet please discuss all the types of Ethernet in a tabular form?	[8]