CLASS: BCA   **SEMESTER : V**th
BRANCH: BCA   **SESSION : MO/2024**

SUBJECT: CA307 INTRODUCTION TO COMPUTER NETWORK

TIME: 3 Hours   **FULL MARKS: 50**

INSTRUCTIONS:
1. The question paper contains 5 questions each of 10 marks and total 50 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. **Before attempting the question paper, be sure that you have got the correct question paper.**
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

			CO	BL
Q.1(a)	Discuss some of the features of LAN, MAN & WAN?	[5]	1	1
Q.1(b)	For n—devices, how many cable links are required for each of the topologies Mesh, Star, Bus and Ring?	[5]	1	2
Q.2(a)	What is NIC? Discuss the benefits of using fibre optic cable?	[5]	2	1
Q.2(b)	Differentiate OSI reference model and TCP/IP model?	[5]	2	2
Q.3(a)	What is a Null modem? Discuss the use of DTE /DCE interface?	[5]	3	1
Q.3(b)	What is the purpose of Multiplexing? Differentiate TDM & FDM?	[5]	3	2
Q.4(a)	Compare & contrast stop and wait ARQ & continuous ARQ?	[5]	4	2
Q.4(b)	What is routing? How does static routing differ from dynamic routing?	[5]	4	2
Q.5(a)	Discuss CSMA/ CD technique?	[5]	5	1
Q.5(b)	What factors have brought increased emphasis on network security?	[5]	5	1

::::::23/11/2024::::::M