BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATIONMO/2024)

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

SUBJECT: CA307 INTRODUCTION TO COMPUTER NETWORKS
TIME: 02 Hours   FULL MARKS: 25

INSTRUCTIONS:
1. The question paper contains 5 questions each of 5 marks and total 25 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. **Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates**

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Q.1	Give some instances of how networks are a part of your life today. What are some of the factors that determine whether a communication system is a LAN, MAN or WAN.?	[5]	1	2
Q.2	How do you differentiate physical topology and logical topology. Discuss the consequences, if a connection fails, for four devices arranged in each of the topologies, Bus topology, Ring topology, Star topology and Mesh Topology.?	[5]	1	2
Q.3	What is the form of signal in twisted pair cable & co-axial cable. How does this differ from the signal in fibre optic cable.?	[5]	2	2
Q.4	List the layers of OSI model. What is the function of data link layer. How does OSI model differ from TCP/IP model.?	[5]	2	2
Q.5	Discuss the functions and services provided by the physical layer. Explain the purpose of using NULL modem.?	[5]	3	1

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