BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION MO/2023)

CLASS: BTECH SEMESTER: VII
BRANCH: ECE SESSION: MO/2023

SUBJECT: EC407 COMPUTER NETWORKING

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(a) Q.1(b)	Differentiate among Ring, Bus, Star and Tree topologies. What does Spanning Tree Approach mean? How is it employed in routing?	[2] [3]
Q.2(a) Q.2(b)	How is a FDDI Ring standard different from IEEE802 Ring standard? Compare 10BASE5 and 10BASE2 co-axial Bus LANs. What is Fast Ethernet? How it is different from traditional Ethernet?	[2] [3]
Q.3(a) Q.3(b)	Give the message format of IGMP message and explain every field in brief. How ICMPv6 is different from ICMPv4? Discuss the different types of ICMP messages.	[2] [3]
Q.4(a) Q.4(b)	What does Internet Control Message Protocol mean? Where is it used? What is the motivation behind implementation of IPv6 over IPv4? Compare the header formats of IPv6 and IPv4.	[2] [3]
Q.5(a) Q.5(b)	What are the differences between classful addressing and classless addressing in IPv4? An organization is granted the block 211.17.180.0/24. The administrator wants to create 32 subnets. (a) Find the subnet mask, (b) Find the number of addresses in each subnet.	[2] [3]

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