Progressive Education Society's

Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16 (Autonomous) End Semester Examination: OCT / NOV 2024

Faculty: Science and Technology

Program: BCA Code: BCASc08 Program (Specific): BCA (Science) Class: TYBCA (Science) Name of the Course: Computer Network Course Code: 24-BCA-355 Paper: -	Semester: V	SET: A Course Type: SEC Max. Marks: 35 Time: 2Hr
Instructions to the candidate:		
 There are 4 sections in the question paper. All Sections are compulsory. Figures to the right indicate full marks. Draw a well labelled diagram wherever necessity. 	_	ite page.
S	ECTION: A	
Q1) Attempt the following (Choose the corre	ct option)	5*1=5
1. The combination of two or more interco	nnected networks is called	1
a) Internetwork b) LAN c))MAN d)WAN	
2. Which of the following network is a small	l, single-site network?	
a) MAN b) LAN c) WAI	N d) DSL	
3. A topology that consists of a number of o	devices connected by poin	t to point links to a central hul
is called		
a) Mesh b) Bus c) Star	d) Ring	
4. TCP/IP is composed of how many layer	s?	
a) 5 b) 4 c) 6 d)	7	
5. Which layer is not present in the OSI ref	erence model?	
a) Physical Layer b) Application	on Layer c) Transport l	ayer d) Internet layer
Q2) Answer the following (any 4)		4*1=4
1 Define Computer Network		

- 1. Define Computer Network
- 2. Define WAN
- 3. Explain Transport Layer
- 4. Line Coding Concept
- 5. Define IP address.
- 6. Describe Digital data

SECTION: B

Q3) Answer	the following (any 4)	4*2=8
1.	Describe performance of Network	
2.	Define Home Appliances	
3.	Describe wireless Networks	
4.	Describe Ring Topology	
5.	Explain Physical Addressing	
6.	Explain process-to-process Delivery	
	SECTION: C	
Q4) Answer	the following (any 4)	4*2=8
1.	Explain User Datagram Protocol(UDP)	
2.	Describe IPv4 Fragmentation	
3.	Explain Fixed Size Framing	
4.	Explain FDM Multiplexing	
5.	Describe Analog Signals	
6.	Explain HTTP Transaction	
	SECTION: D	
Q5) Answer	the following (any 5)	5*2=10
1.	Explain in details OSI Model with neat diagram	
2.	Explain IPv 6 Header Format with neat diagram.	
3.	Differentiate between Baseband and Broadband	

4. Explain in details Circuit Switching and packet Switching