



## **BRAINWARE UNIVERSITY**

Term End Examination 2023-2024
Programme – Dip.CSE-2020/Dip.CSE-2021
Course Name – PC Hardware and Networking
Course Code - DCSE304
( Semester III )

Brainware University

Full	Marks : 60		Time : 2:30 Hours
	he figure in the margin indicates full marks.		
١.		s far as practicable.]	answers in their
	Own words a	s lai as practicable.j	
		Froup-A	1 x 15=15
1.	(Multiple Choice Type Question)		1 x 13-13
1.	Choose the correct alternative from the follo	owing:	
<i>t</i> :\	Indiana de la companya de la company		
(i)	Indicate that the minimum number of conr		
	a) Ring Topology	b) Star Topology	
	c) Mesh Topology	d) Bus Topology	
(ii)	In CAT5/CAT6 type cable, how many wires	are there? Select the correct option	
	a) 2	b) 6	
	c) 8	d) 15	
(iii)	In a class A IP address, Network ID is discov	vered as	
	a) First Byte	b) Second Byte	
	c) Third Byte	d) Fourth Byte	
(iv)	Observe the following that uses simplex co	mmunication	
	a) Telephone	b) Television	
	c) Radio	d) Both (Television) and (Radio)	
(v)	Predict one that is not a Network topology	?	
	a) Ring	b) Star	
	c) Mesh	d) None of these	
(vi)	Calculate that TCP/IP network model consist	st of number of layers	
(,	a) 5	b) 7	
	c) 6	d) 8	
/vii\	Discover the need of Satellite communicati		
(*11)		b) MAN	
	a) LAN	d) None of these	
/:::V	c) WAN Starting with 110 as first octet discover the	[18] [18] [18] [18] [18] [18] [18] [18]	
(VIII)			
	a) Class A	b) Class B d) Class D	
	c) Class C		
(ix)	Calculate that IPV4 Address is of Byt	е	

a) 10

b) 8

are I	RY		
College	niversity	d) 4	
(x)	In CAMES CAT6 type cable, how	d) 4 many wires are there? Select the correct alternative	
	a) 2		
	c) 8	b) 6 d) 15	
(xi)		rk topology is most advantagious? Select the correct	
	option	repology is most advantagious. Select tile correct	
	a) Bus Topology	b) Ring Topology	
(vii)	c) Star Topology	d) Hybrid Topology	
100	The device is used to connect a	number of LANs is Select the correct optio	n
1 to	a) Switch	b) Bridge	
Line	c) Router	d) Hub	
(XIII	Cache Memory is one type of_	Choose the correct alternative	
	a) Secondary Memory	b) Primary Memory	
	c) Auxiliary Memory	d) None of This	
(xiv	Select the size of an MAC addre	ess is	
	a) 1 Byte	b) 2 Byte	
	c) 4 Byte	d) 6 Byte	
(xv)	In mesh topology, if number of	node is n, then show the total number of link are	
	a) n		
	c) n(n-1)/2	b) 2n	
	, , , , , , , , , , , , , , , , , , , ,	d) n(n+1)/2	
		Group-B	
		(Short Answer Type Questions)	2 v E_1E
		phote Answer Type Questions/	3 x 5=15
2. D	efine the basic function of a mor	nitor in a computer system	(2)
<ol> <li>Define the basic function of a monitor in a computer system.</li> <li>Calculate the total number of pixels in a monitor with a resolution of 1920x1080.</li> </ol>			(3) (3)
4. V	Vrite three advantages of using a	computer network.	(3)
	riefly analyse the different colour	AND SECTION FOR THE THE CONTRACTOR OF THE CONTRA	(3)
		mitations of the different transmission modes present	in a (3)
n	etwork.	entra contrata en en en esta sentido de contrata en entra en entra en entra en entra entra entra en entra en e	5 (5)
		OR	
٧	Vrite short notes on different net	work devices.	(3)
			. II I N. S.
		Group-C	
	(	(Long Answer Type Questions)	5 x 6=30
7.	Describe different parts of an ISA	Computer.	(5)
8.			
9. Discuss about different types of ROM.			(5) (5)
10. Write down the step by step processes to check output voltages in a SMPS.			(5)
	Briefly discuss about different col		(5)
12.	Discuss about different types of n	etworking/internetworking devices.	(5)
		OR	
× ×	Write a short note on TCP/IP netv	vorking model.	(5)