



BRAINWARE UNIVERSITY

LIBRARY Brainware Universit Barasat, Kolkata -70012

Term End Examination 2023 Programme - Dip.CSE-2018/Dip.CSE-2019/Dip.CSE-2020 Course Name – Computer Network **Course Code - DCSE603** (Semester VI)

Full Marks: 60 Time: 2:30 Hours [The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

=15

		up-A	
1.	(Multiple Choice Type Question) Choose the correct alternative from the following:		1 x 15=
(i)	Explain which of the following is not a function of a router?		
	a) Packet Switching c) Internetwork communication Select ICMP is primarily used for	b) Packet Filteringd) Forwarding broadcasts by default	
(iii)	a) error and diagnostic functionsc) forwardingDefine which are the methods to move data t	b) addressing d) routing hrough a network of links and switches?)
	a) Packet switchingc) Both (a) and (b)State A 4 byte IP address consists of	b) Circuit switching d) Line Switching	,
(v)	a) only network addressc) network address & host addressSelect which of the following protocols uses to	b) only host address d) network address & MAC addres both TCP and UDP?	
	a) FTP c) TELNET Trace Application layer protocol defines	b) SMTP d) DNS	
	a) Types of messages exchangedc) Rules for when and how processes send and respond to messages	b) Message format, syntax and sem d) All of these	antics
(vii) Identify the subnetwork number of a host with an IP address of 172.16.66.0/2		th an IP address of 172.16.66.0/21?	
	a) 172.16.36.0	b) 172.16.48.0	
	c) 172.16.64.0	d) 172.16.0.0	
(viii)	Select What class of IP address provides a maximum of only 254 host addresses per network ID?		
	a) Class A	b) Class C	

d) Class D

c) Class B

(ix) Communication offered by TCP is ______ Justify

3 x 5=15 (3)(3)(3)5. Classify of Internet Addresses in IP version4? Mention their range, format and usage. (3)(3)How does hierarchical routing better than other routing techniques? Describe. (3)**Group-C** (Long Answer Type Questions) 5 x 6=30 7. Define Protocol. (5) 8. Difference between flow control and error control-Explain (5) 9. Compare between Go-Back-N ARQ and Stop-and-Wait ARQ methods (5) 10. What do you mean by pure ALOHA and slotted ALOHA? Explain (5)11. Discuss the various techniques to improve quality of service (5)12. Compute Checksum for for both sender and receiver side for the data:7,11,12,0,6 (5)OR Explain Leaky Bucket algorithm (5)*************