

**GURU NANAK INSTITUTE OF TECHNOLOGY**  
**An Autonomous Institute under MAKAUT**  
**2020-2021**  
**INTERNET TECHNOLOGY**  
**IT 702C**

TIME ALLOTTED: 3 HRS

FULL MARKS: 70

*The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable***GROUP – A****(Multiple Choice Type Questions)**Answer any *ten* from the following, choosing the correct alternative of each question: **10×1=10**

	<b>Marks</b>	<b>CO No.</b>
1. i) The protocol data unit(PDU) for the application layer in the Internet stack is a) Segment b) Datagram c) Message d) frame	1	CO3
ii) What is private IP? a) 12.0.0.1 b) 168.10.23.56 c) 172.23.20.10 d) 192.68.24.43	1	CO1
iii) Frames from one LAN can be transmitted to another LAN via the device a) Router b) Bridge c) Repeater d) Modem	1	CO2
iv) What is the default subnet mask for a class C network? a) 127.0.0.1 b) 255.0.0.0 c) 255.255.0.0 d) 255.255.255.0	1	CO5
v) Process to process delivery is possible using IP address and a) port number b) Client c) Server d) None of these	1	CO3
vi) Which of the following is intra domain routing protocol ? a) RIP b) OSPF c) BGP d) None of these.	1	CO1

vii)	The length of IP address is a) 16 bits b) 32 bits c) 8 bits d) None of these	1	CO3
viii)	Which of the following is not IPv6 address ? a) Anycast b) Multicast c) Unicast d) broadcast	1	CO4
ix)	The length of IP address is a) 16 bits b) 32 bits c) 8 bits d) None of these	1	CO3
x)	Loop back address a) 127.0.0.1 b) 128.0.0.1 c) 127.1.1.0 d) 255.255.255.255	1	CO5

**GROUP – B**

**(Short Answer Type Questions)**

(Answer any *three* of the following)

		<b>3 x 5 = 15</b>	
		<b>Marks</b>	<b>CO No.</b>
2.	What is ASP? What is NIC?	5	CO2
3	What is firewall? What are the different aspects of network security?	5	CO3
4.	What is gateway? What is server?	5	CO5
5.	What is DNS? Explain. What is bandwidth?	5	CO2
6.	a) What are the basic needs for an Internet? Explain	2	CO5
	b) Why internet of today cal also be reckoned as TCP/IP internet?	3	CO3

**GROUP – C**

**(Long Answer Type Questions)**

(Answer any *three* of the following)

		<b>3 x 15 = 45</b>	
		<b>Marks</b>	<b>CO No.</b>
7.	a) Discuss an effective communication between a server and a client.OSI vs TCP/IP?	8	CO3
	b) ARP vs RARP?	3	CO2
	c) Difference between Internet,Intranet and Extranet.	4	CO1
8.	a) Architecture of ASP.Page life cycle.what do you mean by session handling.	6	CO4
	b) Difference between Internet,Intranet and Extranet.	5	CO4
	c) Explain DHCP briefly.	4	CO3
9.	a) Define static IPand Dynamic IP.	5	CO2

	b)	What is DHCP?How it works.	5	CO3
	c)	What is MAC address?explain.Classes of IP?	5	CO1
10.	a)	What is firewal.Explain.Define static IPand Dynamic IP.	5	CO5
	b)	What is TCP and UDP?	4	CO3
	c)	IPv4 vs IPv6?	4	CO5
	d)	What do you mean by proxy server?	2	CO2
11.		Write short notes on any three of the followings:		
	a)	TELNET	5	CO2
	b)	IPv6	5	CO3
	c)	Email	5	CO4
	d)	Switch	5	CO5
	e)	Router	5	CO4