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**

			Marks	CO No.
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)   **3 x 5 = 15**

			Marks	CO No.
2.		What is ASP? What is NIC?	5	CO2
3		What is firewall? What are the different aspects of network sequrity?	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)   **3 x 15 = 45**

			Marks	CO No.
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