GURU NANAK INSTITUTE OF TECHNOLOGY

An Autonomous Institute under MAKAUT

2022

INTERNET TECHNOLOGY IT703C

TIME ALLOTTED: 3Hours

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: $10 \times 1 = 10$ Marks CO No. 1. (i) Which of the following server is used by TCP CO₂ a) SMTP b) TFTP c) DHCP d) All of these (ii) Which of the following private IP address CO₂ a) 12.0.0.1 b) 168.10.23.56 c) 172.23.20.10 d) 192.68.24.43 (iii) The size of an IP address in IPv6 is CO₂ a) 4 bytes b) 128 bytes c) 8 bytes d) 16 bytes (iv) What is the default subnet mask for a class C network? CO5 a) 127.0.0.1 b) 255.0.0.0 c) 255.255.0.0 d) 255.255.255.0 (v) A program that is used to view websites is called a CO₃ a) Browser b) Web viewer c) Spreadsheet

d) Word processor

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(vi)	Which of the following is intra domain routing protocol? a) RIP	Ĭ	COI
	b) OSPF		
	c) BGP		
	d) None of these		
(v:i)	The length of ID address is	1	CO3
(vii)	The length of IP address is a) 16 bits	1	COS
	b) 32 bits		
	c) 8 bits		
	d) None of these		
	d) Note of these		
(viii)	Which of the following is not IPv6 address?	1	CO4
	a) Any cast		
	b) Multicast		
	c) Unicast		
	d) Broadcast		
(ix)	What is the term for unsolicited Email?	1	CO ₅
	a) Spam		
	b) Backbone		
	c) Usenet		
	d) News group		
(x)	An XML Parser is used to The contents of an XML document	1	CO3
	a) display		003
	b) read & interpret		
	c) read but not interpret		
	d) none of these		
	a) Holle of these		
(xi)	Loop back address	1	CO5
	a) 127.0.0.1		
	b) 128.0.0.1		
	c) 127.1.1.0		
	d) 255.255.255.255		
(xii)	In 1990s, the internetworking of which three networks resulted in	to 1	CO4
	Internet?		
	a) WWW, GPS and other private networks		
	b) ARPANET, NSFnet and other public networks		
	c) ARPANET, NSFnet and other private networks		
	d) ARPANET, GPS and NSFnet		
	GROUP – B		
	Answer any three questions		
	(Answer any <i>three</i> of the following) 3 x 5	= 15	
		Marks	CO No
2. a)	Explain the internet Domain and Domain Name System.	3	CO3
b)	What do you mean by provy servers?	2	CO2

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3.	What is Firewalls & SSL	5	CO4
4.	What is Table driven IP routing?	5	CO2
5.	Define Mail Server. What are the roles of Mail Transfer Agent (MTA), Mail Delivery Agent (MDA), and Mail User Agent (MUA) in email System?	5	CO3
6.a)	What are the Routing Information Protocol (RIP)	2	CO1
b)	Explain Bootstrap protocol (BOOTP).	3	CO2
	GROUP - C		
	Answer any three questions	-15	
	Answer any <i>three</i> from the following: 3×15	=45 Marks	CO No
7 0)	Discuss an effective communication between a server and a client. OSI vs	8	CO2
7.a)	TCP/IP?	0	CO2
b)	Why NAT is Required?	3	CO3
c)	Difference between Internet, Intranet and Extranet.	4	CO1
8.a)	What are differences between UDP and TCP? Describe different types of nags (control hits) that appear in TCP header.	6	CO2
b)		5	CO3
c)	What are the main services provided by PGP protocol? How those consume in mail application?	4	CO4
9.a)	What is Web Form Handling?	2	CO2
b)	What is SSL implementation	4	CO4
c)	What is Transport Gateways and subnet addressing?	9	CO3
10.a)	Describe briefly characteristics of the ASP.Net framework.	4	CO4
b)	What are the advantages and disadvantages of Exterior Gateway Protocol (EGP)?	4	CO3
c)		5	CO4
d)	What are the features of IPv6	2	CO2
11.	Write down short notes on any three of the followings:	3x5=15	
a)	TELNET	5	CO ₂
b)	PGP	5	CO3
c)	IMAP4	5	CO2
d)	Switch	5	CO3
e)	Router	5	CO2