No. of Printed Pages : 4 Roll No		Q.5	ISDN stands for				
				a)	Integrated Servi	ces Digit	tal Network
	Comp, IT, C			b) Integrated Services Data Networkc) Interface Services Digital Network			
	Subject : Computer	Networks					
Time	: 3 Hrs.	M.M.: 100		d) Integrated Signal Digital Network The another name of CSMA/CD standard is			
	SECTION-A	A	Q.6				
Note	Multiple choice questions	s. All questions are		a)	IEEE 802.1	b)	IEEE 802.3
	compulsory	(10x1=10)		c)	IEEE 802.7	d)	IEEE 802.11
Q.1	LAN stands for		Q.7	In	10Base 5 standard	l, 10 repr	resents the of
	a) Local area network b)	ocal area network b) Less access network		the Ethernet network.(Data rate)			
	c) Less area network d)	Local access network		a)	Cable length	b)	Cable type
Q.2	OSI model haslay	ers.		c)	Data rate	d)	None of the above
	a) 5 b)		Q.8	Wh	hat is the size of UDP header in bytes?		
	c) 7 d)	8		a)	40	b)	20
Q.3	IP address 224.132.212.42 b	pelongs to which class?		c)	10	d)	8
		Class B	Q.9	Which of the following is not a troubleshoot technique?			
	c) Class D d)	Class C		a)	Ping	b)	Netstat
Q.4	In which topology, there is of transmission of data?	only one single path for		c)	hacking	d)	Ipconfig
	a) Bus topology b)	b) Ring Topologyd) Tree Topology	Q.10	Another name of 802.11 protocol is			
				a)	Bluetooth	b)	Wi-Fi
	o, omi ropology			c)	Ethernet	d)	CDMA/CD
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SECTION-B

- **Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Name the elements of computer network?
- Q.12 What is significance of Shannon capacity in computer networks?
- Q.13 What is logical addressing?
- Q.14 What is the need of protocols?
- Q.15 Define the term congestion? Why it is created?
- Q.16 Define the term of "data integrity".
- Q.17 Why we use traceroute command?
- Q.18 What is RARP?
- Q.19 Name the various types of cryptography?
- Q.20 What do you understand by the term network management?

SECTION-C

- **Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain various elements of computer network.
- Q.22 What is topology? What are its types?
- Q.23 Discuss the functions of each layer of TCP/IP Model,
- Q.24 What do you understand by transmission modes? Explain types of modes of transmission.
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- Q.25 Compare peer-to-peer and server client network model.
- Q.26 Differentiate between LAN, MAN, WAN.
- Q.27 Distinguish between Router and Bridge.
- Q.28 Describe IP packet format of IPv4.
- Q.29 Discuss the function of modem.
- Q.30 What is IEEE standard 802.3? Explain its working principle.
- Q.31 How FDM is different from TDM?
- Q.32 What is a Wi-Fi? What are the advantages and disadvantages of Wi-Fi?
- Q.33 Explain briefly about ethical hacking.
- Q.34 Explain any two network troubleshooting techniques.
- Q.35 Define encryption. Why it is necessary?

SECTION-D

- **Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain OSI reference model with diagram in detail.
- Q.37 What do you understand by Raid management? Explain its types in detail.
- Q.38 Write a short note on any two of the following:
 - a) Hub

b) Ring Topology

c) VOIP

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No. of Printed Pages : 4 Roll No			Q.8 OSI stands for	(CO-2)			
		/120851/030851	Q.9 Define a node on a network.	(CO-1)			
	5th Sem. / Computer/I7	T/GE	Q.10 Define Saas.	(CO-8)			
	Subject : Computer Netw	orks	OFOTION D	,			
Time : 3 Hrs. M.M. : 100		M.M.: 100	SECTION-B				
SECTION-A			Note: Very Short answer type questions. Attemp ten parts 10x2				
Note	e:Objectives questions. All compulsory	questions are (10x1=10)	Q.11 What do you mean by network topology	/?(CO-1)			
	(Cour	se Outcome/CO)	Q.12 Define LAN.	(CO-1)			
Q.1	Define Computer Network?	(CO-1)	Q.13 How many layers are there under	TCP/IP (CO-2)			
Q.2	What is switching?	(CO-2)	Q.14 Explain VSAT.	(CO-3)			
Q.3	Define Protocol.	(CO-2)	·	,			
0.4	How many layers are in TC/ID	roforonco modal	Q.15 What do you mean by DSL.	(CO-3)			
Q.4	How many layers are in TC/IP i	(CO-2)	Q.16 Explain two trouble shooting tools.	(CO-7)			
Q.5	Define ARC Net.	(CO-4)	Q.17 What is NIC?	(CO-7)			
Q.6	What is HUB?	(CO-5)	Q.18 What are the function of physical reference model.	in OSI (CO-2)			
Q.7	Define NETSTAT.	(CO-6)	Q.19 Write short notes on Bluetooth.	(CO-7)			
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Q.20 Explain P to P network.	(CO-6)	Q.30 Discuss IP addre	ssing in details.	(CO-2)
Q.21 What is encryption?	(CO-5)	Q.31 Discuss the func	tion of network and so	ession
Q.22 Name networking models.	(CO-4)	layer i details.		(CO-2)
SECTION-C		Q.32 Explain type of c	ommunication.	(CO-4)
Note: Short answer type questions. Attempt	anv eight	SE	ECTION-D	
questions.	8x5=40	Note:Long answer type	e questions. Attempt a	any three
Q.23 Explain computation between Circuit	& packed	questions.	;	3x10=30
switching	(CO-1)	Q.33 What is network		
Q.24 Explain ISDN & type of ISDN.	(CO-2)	network topologie	∋ S.	(CO-1)
Q.25 Write short notes an:-		Q.34 Explain OSI refe	rence model in detail.	(CO-2)
a) Leased Lines b) DSL	(CO-7)	Q.35 Differentiate IPV	1 & IPV6	(CO-3)
Q.26 What is Multiplexing. Explain t multiplexing.	ypes of (CO-2)	Q.36 Define cloud co	mputing & discuss	laas in (CO-8)
Q.27 Explain Routers & Bridges.	(CO-5)	(Note: Course outcome	ne/CO is for office us	se only)
Q.28 Explain cryptography & its techniques	s. (CO-7)			
Q.29 Write short notes an:-				
a) Repeaters b) Gateways (3) 170851/12085	(CO-5) 1/030851	(2840)	(4) 170851/120851	1/030851

No. of Printed Pages : 4		Q.10 Define RF link.			
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5th / Comp., I Subject : Compute	•	Note: Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20			
Time : 3 Hrs.	M.M. : 100	Q.11 Name the various layers in TCP/IP model.			
SECTION Note: Objective type question		Q.12 Differentiate between physical and logical addressing.			
compulsory	(10x1=10)	Q.13 Define peer-to-peer network.			
Q.1 Define Super netting.		Q.14 Give the name of any two Bluetooth devices.			
Q.2 PSTN stands for	·	Q.15 Explain in brief DSL.			
Q.3 Write down the full form	of ISDN.	Q.16 What is the purpose of computer network.			
Q.4 Define server client netw	vork.	Q.17 Why do we use repeaters in a network.			
Q.5 Define network computing	ng.	Q.18 Define congestion.			
Q.6 Write the use of modem.		Q.19 Differentiate between supernetting and subnetting.			
Q.7 Write the use of gateway	<i>1</i> .	Q.20 Write the name of the class of the following			
Q.8 Define UTP.		address: 14.21.120.8			
Q.9 Define topology.		Q.21 Write the main function of the physical layer.			
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Q.22 Write down any two disadvantages of leased line.

SECTION-C

- **Note:** Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40
- Q.23 Explain different classes of IP addresses.
- Q.24 What is domain name service. Explain.
- Q.25 Differentiate between IPv4 and IPv6.
- Q.26 Explain in brief any two network trouble shooting tools.
- Q.27 Differentiate between HUB and switch.
- Q.28 Define Bluetooth. Write its various applications.
- Q.29 Explain in brief the various standards of Ethernet.
- Q.30 Write short note on multiplexers.
- Q.31 Write down the various functions of data link layer.
- Q.32 Write down the various functions of transport layer.

SECTION-D

- **Note:**Long answer type questions. Attempt any three questions out of four questions. 3x10=30
- Q.33 Discuss in detail the functions of layers in OSI model.
- Q.34 Discuss Network switching techniques in detail.
- Q.35 Write short notes on:
 - a) PSTN
 - b) VSAT
 - c) ISDN
- Q.36 Write short note on the following:
 - a) Gateways
 - b) IEEE802.11

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Time: 3 Hrs. M.M.: 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Why we need computer networks?
 - b) What is server?
 - c) Differentiate between hub and switch.
 - d) What is packet switching?
 - e) Define server client network.
 - f) Define token ring.
 - g) What is FTP?
 - h) What is full form of IEEE?
 - i) Define subnet mask.
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- j) What function data link layer serve?
- k) What is IPCONFIG?
- Define Multiplexer.
- m) What is the role of modem?
- n) Define leased liner.
- o) Define peer to peer network.
- p) Class D addresses are used for which purpose?
- q) What is unicast address?
- r) What is an adhoc network. Give one example of adhoc network.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2 i) What are advantages of IPV6 over IPV4?
 - ii) Why rooting is important in networking?
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iii)	Explain about distance vector rooting algorithm.		SECTION-C
iv)	What is the function of physical layer?	Note	Long answer type questions. Attempt any three questions. 3x10=30
v)	What is bridge? Explain.	Q.3	Explain about LAN, MAN and WAN in detail.
vi)	What is remote procedure call?		Also enlist their respective advantages & limitation.
vii)	Write short note on :	Q.4	Explain about OSI model giving in detail.
	a) NIC b) SMTP	Q.5	Write short note on the following:
viii)	What is data encryption? Explain in brief.	00	a) Gateways
ix)	What is super netting? Explain in brief.		b) IEEE802.11
x)	Explain about loop back testing?	Q.6	Write short note on the following.
xi)	What are advantages and disadvantages of leased line?		a) VSAT
xii)	Explain the term rooter and repeater.		b) ISDN
xiii)	What are various network trouble shooting tools. Explain in brief.	Q.7	What is client server model? Write advantages and disadvantages of client server model.
xiv)	What is Domain Name Service? Explain.		
xv)	What is the need of protocols?		
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			120851/030851		j)	What is data encryption?	
	5th Sem. / Comp/IT/GE				k)	Define flow control.	
		Subject : Computer	Networks		l)	Define multi casting.	
Time	Time: 3 Hrs. M.M.: 100			m)	What is a protocol?		
		SECTION-	A		n)	Define IP address.	
Note		ry Short Answer type o parts.	questions. Attempt any (15x2=30)		0)	The following IP addrewhich address class:-	sses belongs to
Q.1	a)	Write down the full for	rm of OSI.		(a)	127.0.0.0	
	b)		ction of session and		(b)	192.88.99.0	
		presentation layer in			p)	What is RF?	
	c)	Define network.			q)	Write down the spee	d of Traditional
	d)	What is multiplexing?			.,	ethernet	
	e)	Hubs are used in	topology.		r)	Write down the full form of	PSTN.
	f)	Write one difference and super netting.	between sub netting			OFOTION D	
	g)	What is the use of	network connectivity			SECTION-B	
	37	devices?		Note: Short answer type questions. Attempt any parts 10x4			. Attempt any ten 10x4=40
	h)	What are the advant connectivity.	ages of optical media		i)	What is peer to peer netwo	
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- ii) What is server client network?
- iii) Write a short note on network services.
- iv) Differentiate between physical and logical addressing.
- v) Differentiate between classful addressing and classless addressing.
- vi) Write a short note on fast ethernet and Giga bit ethernet.
- vii) What are the functions of NICS?
- viii) What are the functions of Multiplexers?
- ix) Write a short note on wiresharp and traceroot trouble shooting tools.
- x) Briefly discuss the architecture of Bluetooth
- xi) Explain trouble shooting process.
- xii) Discuss the classes of IP addressing.
- xiii) Discuss the loop back concept.
- xiv) What is network address Translation.

(3)

xv) Discuss IPV6 packet format.

SECTION-C

- **Note:**Long answer type questions. Attempt any three questions. 3x10=30
- Q.3 Explain the various types of switching techniques in detail.
- Q.4 Discuss the functions of various layers in OSI Reference Model.
- Q.5 Discuss the functions of the following:-
 - (a) Repeaters
 - (b) Switches
 - (c) Modems
 - (d) Routers
- Q.6 Explain the architectures of IEEE 802.11 in detail.
- Q.7 Write short note on following Trouble shooting tools:-
 - (a) PING
 - (b) IPCONFIG
 - (c) IFCONFIG
 - (d) NETSTAT.

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