QP Code: 5377

			(3 Hours)	[Total Marks	80
N.I	В. :	(1) (2) (3)	Question No. 1 is are compulsory. Attempt any three questions out of remaining questions. Total 4 questions need to be solved.	,	
1.	(a)		mpare circuit switched and packet switched networks.		5
	(b) (c)		ht is a network? What are its goals and applications?		5
	(d)		ferentiate hetween TCP and UDP. plain framing in Data link Layer.		5
	(u)	EXI	plant training in Data link Layer.		5
2.	(a)		at is OSI modes? Give the function and services of each l		10
	(b)	Exp	plain HDLC protocol along with its different frame structur	e.	10
3.	(a)	Exp	plain CSMA/CD protocol.		10
	(b)	Des	scribe about the different Guided transmission Medias.		10
	(a)		clain the following with example:— (i) Repeater (iv) Swithces (ii) Hubs (v) Router. (iii) Bridges	l.co	10
	(b)	Wha	at is Ip addressiing? Explain ipV4 datagram format?		10
5.	(a)		at is Congestion and what are the causes of congestion? ket algorithm of Congestion Control?	Explain Token	10
-	(b)	Exp	lain TCP segment header format.		10
6.	Exp	olain	any four :—		20
		(a)	Compare LAN, WAN, MAN.		
			Network Topologies.		
			PSTN.		
			Berkely sockets.		
		(e)	Sliding window protocol.		

MD-Con. 8624-15.

S.E. IT sem IV CBS9S

SUB: - Computer NIW

QP Code: 549602

	(3 Hours)	Total Marks : 80
N.B. :	 Question no. 1 is compulsory Attempt any three questions from the remaining questions Total four questions need to be solved. 	ú.
l. An	(a) Compare slotted ALOHA and Pure ALOHA. (b) Explain selective repeat protocol. (c) Explain TCP timer (d) Compare Linux and windows operating system (e) Explain PSTN.	20
	What is OSI model? Give the functions and services of each layer. Explain Guided Transmission media in detail.	10 10
(b)	What are the different types of routing algorithms? Explain shortest palgorithm in detail? Explain (i) IP address (ii) Subnet Mask An IPV ₄ Packet has arrived with the first "8 bits" as shown: 0100 0010 discards? Why?	CO_6
	Draw and explain TCP segment heade. Explain TCP Congestion Control.	10 10
(b)	What is HDLC? Explain the frame formats of I-frame, U- frame and S Compare Connetionless and connection oriented services. Explain Traditional Ethernet	S-Frame? 10 5 5
6. Wr	(i) Compare LAN, MAN, WAN (ii) BGP (iii) Explain CRC with example (iv) CDMA/CA (v) Bridges, Router, Switches.	20

Q.P. Code: 13124

[Marks:80] [Time: Three Hours] Please check whether you have got the right question paper. 1. Question.No.1 is compulsory. N.B: 20 Q. 1 Answer (any 4) a) What are the functions of data link layer? b) What is IP address, MAC address and Port address c) How many networks and Hosts are possible using 'Class B' IP address? What is a subnet mask? d) Compare Windows and Linux Operating system e) What is p - persistent CSMA f) Compare Circuit switched and Packet switched networks 10 Q. 2 a) Explain the frames of HDLC with a neat diagram. b) Explain the OSI model in detail. List the networking devices used at each layer of the OSI model 10 Q. 3 a) Explain DVR with an example. What are the problems in DVR algorithm? b) What is the difference between Stop and walt and Sliding window protocol? Explain Selective 10 Repeat technique 10 Q. 4 a) Explain IP V4 header with a neat and labeled diagram, 10 b) What is congestion? Explain any one algorithm to control congestion in a network Q. 5 a) Draw and explain TCP segment header. b) What is Routing? Explain OSPF in detail. Q. 6 Write short notes on (any 4) a) Satellite Communication b) ALOHA and its types c) Switches, Repeaters, Gateway d) TCP timers e) CRC with an example

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SE SEM IX IT (1000S) (N

Q.P. Code: 13123

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Com	77/CBGS/17/CN / 01/12/16 puter Networks / 01/12/16 Q. P. Code: 549603	
	(3 Hov [Total Marks: 80]	
N.B.:	(1) Question No. 1 is compulsory.	
	(2) Attempt any Three questions out of remaining questions.	
1.	Answer any four	20
	(a) Discuss and compare various types of Networks.	
	(b) Explain PSTN.	
	(c) Compare Circuit switched and Packet switched networks.	
	(d) Differentiate between TCP and UDP.	
	(e) Explain Framing in Data link layer.	
2.	(a) Describe about the different Guided Transmission Medias	10
		10
	Distance vector Routing.	
3.	(a) Explain the Connection Establishment and Termination in TCP with neat	10
	diagram.	
	(b) Explain the functions of data link layer	FO.
4.	, , , , , , , , , , , , , , , , , , , ,	10
	(b) Explain HDLC protocol with suitable diagram.	10
5.	(a) Explain the following with example:-	10
•	(i) Repeaters (ii) Switches (iii) Hubs (iv) Routers (v) Bridges	
		10
6.	Write short notes on (Any Four)	20
٥.	(i) GSM operation subsystem	
	(ii) Networking using Windows and LINUX operating system	
	(iii) Internet Control Protocol	
	(iv) Mobile Telephone System	

(v) BGP.

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21st may 2015

QP Code: 3647

	(3 Hours) [Total Marks :	80
N.B. :	Question No. 1 is Compulsory Attempt any 3 questions out of the remaining questions	
	3) Total 4 questions need to be solved.	
·-	,	
1. (a)	"A datagram cannot be larger than the MTU of network over which it is sent. 'Is the statement true or false? Explain with the help of suitable example.	5
(b)	Suppose you have to develop an error recovery protocol for a link that is unreliable and delay sensitive, which of the following protocol would you to choose? Justify your answer.	5
	(i) Stop and wait	
	(ii) Selective repeat	
	(iii) Go back	
	How congestion is controlled in TCP?	5
(d)	The size of option field of an IP datagram is 20 bytes. What is the value of HLEN? What is the value in binary?	5
	HLEN? What is the value in binary:	
2 (a)	What is OSI model? Give the function and services of each layer.	10
(b)	What is routing in network? Explain shortest path routing protocol.	10
8.5		
3 (a)	Explain the different classes of IP addresses and need of subnetting with	10
	the help of example.	
(b)	Differentiate between message switching, circuit switching and packet switching.	10
4 (a)	What is pure ALOHA and Slotted ALOHA? What is the efficiency. Justify your answer.	10
(b)	Draw and explain TCP Segment Header.	10
. ,		
- ' '	Differentiate between TCP and UDP.	10
(b)	Explain the different transmission media in networking.	10
6. Writ	te short notes on the following (any four):	20
	(a) BGP	
	(b) HDLC	
	(c) TCP Timers (d) Hubs Switches and Bridges	
	(d) Hubs, Switches and Bridges (e) CRC and checksum.	
JP-Con. :		

Q.P. Code: 12452

				(3Hours)	[Total Marks	: 80
		N.B.	 Question No.1 is con Attempt any 3 quest Total 4 questions ne 	ions out of remaining q	uestions.	
Ι.	(a) (b) (c) (d)	Cons Com	ain collision detection prider a message 1101001 pare circuit switched and rentiate between connec	1101100, divisor 1011. I pachet switched netw	Compute n bit binary CRC. orks.	5 5 5 5
2.	(a)		are the three main funct		work layer? What is routing.	10
	(b)		t is IP address? Why i		s subnet mask ? Explain is	10
3.	(a) (b)		ain TCP conquestion cor ain connection establish		n TCP with neat diagram.	10 10
4.	(a) (b)	•	ain HDLC protocol with ain TCP sliding window		letail.	10 10
5.	(a) (b)	A IP 4500	ain TCP timer managem header from an IP packe 003c1c4640004006b1e6 explain all bits.	et received at destination		10 10
6.	Wı	rite sho (i) (ii) (iii) (iv) (v) (vi)	rt note (any four):- Network topology GSM operation subsystant that the routing Framing at data link land the tworking using wing Static channel allocations.	ayes. Idows and LINUX oper	rating system	20

GN-Con.:8581-14.

SE-IT- CBUS sem-TV - CN 23/5/14

QP Code: NP-19737

(3 Hours)

[Total Marks:80]

N.B. (1) Question No. 1 is Compulsory.

- (2) Attempt any three questions out of remaining questions.
- (3) Figures to the right indicate full marks.
- (4) Assumptions made should be clearly stated.
- (5) Assume suitable data wherever required and justify it.

(a) What is a network? What are its goals and applications?	05	
(c) that is a second of the approximation of the ap		
(b) Discuss and compare various types of networks.		
(a) To these ones relationship between transmission modic and		
topologj.		
(d) What are the goals of TCP/IP Model?	05	
	10	
and services of each layer.		
(b) Describe about the different Guided transmission Medias.		
(a)Explain the functions of data link layer.	10	
(b)Explain the Taxonomy of multiple access protocols.		
(a)Explain different categories of routing algorithms.	10	
(a) Explain different energeties of routing algorithms.		
(b) What is IP addressing? How it is classified? How is subnet 1		
(b)Explain TCP Congestion Control.	10	
Write short notes on (any 4):-	20	
a) Connection oriented and connectionless service.		
b) Sliding window protocol		
s, sileng water protection		
c) Mobile Telephone system.		
d) Communication Satellite		
d) Communication Saternic		
e) Internet Control protocols.		
fi TIDE		
-v		
	 (c) Is there any relationship between transmission media and topology? (d) What are the goals of TCP/IP Model? (a) What is OSI Model? Explain the functions and protocols and services of each layer. (b) Describe about the different Guided transmission Medias. (a) Explain the functions of data link layer. (b) Explain the Taxonomy of multiple access protocols. (a) Explain different categories of routing algorithms. (b) What is IP addressing? How it is classified? How is subnet addressing is performed. (a) What are the elements of transport protocols? (b) Explain TCP Congestion Control. Write short notes on (any 4):- a) Connection oriented and connectionless service. b) Sliding window protocol. c) Mobile Telephone system. d) Communication Satellite 	

Con. 11567-14.