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		Reg	. No.										
	Question Paper Cod	le	12502										
	B.E. / B.Tech. / M.Tech - DEGREE	EX	AMIN	JAT	IOI	NS, I	NO	V /]	DEC	C 20	23		
	Fourth	Sem	lester										
	Computer Science	e an	d Eng	ine	erin	g							
(Co	ommon to Information Technology, Fifth	n Ser	nester	- M	[.Teo	ch. C	Con	npute	er So	cien	ce a	nd	
	Engineering & Computer and	Cor	nmuni	cati	on E	Ingi	nee	ring))				
	20CSPW401 - COMPUTER NET	WO	RKS	WI	ΤН	LA	BO	RAT	OR	Y			
	(Regulati	ons	2020)										
Duration: 3 Hours Max. Marks							ks:	100					
	PART - A (10 >				xs)								
	Answer AL	LQ	uestioi	ns							Л	Iarks,	
											K-L	evel, (
1.	List the five components of data comm	unic	ation.									K1,CO	
2.	Define Computer Networks.											K1,CO	
3.	Define framing.											K1,CO	
4.	What is meant by bit stuffing? Give an	exar	nple.								2,I	K1,CO	2
5.	What is the need for fragmentation?										2,I	K1,CO	3
6.	Differentiate between forwarding table	and	routin	g ta	ble.						2,I	K2,CO	3
7.	Compare TCP and UDP.										2,I	K2,CO	4
8.	State the advantages of connection or services.	rient	ed ser	vice	es o	ver	con	nect	ionl	ess	2,1	K1,CO	4
9.	Define SMTP.										2,I	K1,CO	5
10.	State the need of DNS.										2,I	K1,CO	5

PART - B $(5 \times 13 = 65 \text{ Marks})$

Answer ALL Questions

11. a) Explain the different types of packet switching techniques with ^{13,K2,CO1} suitable networks. Write each of its advantages and disadvantages.

OR

- b) Interpret the major functions performed by the layers of the ISO-OSI ^{13,K2,CO1} model.
- 12. a) Explain in detail about the point to point protocol (PPP) with a neat ^{13,K2,CO2} sketch.

OR

b) Classify in detail about High-level Data Link Control and the types of ^{13,K2,CO2} frames.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 12502

13.	a)	Discss the function of the Border Gateway Protocol used for Inter domain routing in internetwork. OR	13,K2,CO3
	b)	Explain about IPv6. Also compare IPv4 and IPv6.	13,K2,CO3
14.	a)	Discuss in detail about the three mechanisms by which congestion control is achieved in TCP and differentiate these mechanisms. OR	13,K2,CO4
	b)	Identify and explain the various functionalities of SCTP.	13,K2,CO4
15.	a)	What is SSH? Explain in detail about its functions. OR	13,K2,CO5
	b)	Explain in detail about HTTP operation.	13,K2,CO5

PART - C (1 × 15 = 15 Marks)

16. a) Discuss the function and importance of Simple Network Management ^{15,K2,CO6} Protocol (SNMP).

OR

b) Describe about client/server application program TELNET. 15,K2,CO6