Velegapudi Ramakrishna Siddhartha Engineering College::Vijayawada

(Autonomous)

III /IV B Tech Degree Examinations(Month/Year)

Fifth Semester

Department of Information Technology 20IT5301:COMPUTER NETWORKS

Time:3Hrs MODEL QUESTION PAPER Max Marks:70

Part – A is Compulsory

Answer one (01) question from each unit of Part – B

Answers to any single question or its part shall be written at one place only

Ans	wers t	 o any single question or its part shall be written at one place only Cognitive Levels(K): K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-I 	Evaluate: F	K6-Create					
Q. No		Question		Course	Cog.				
		Question	Marks	Outcome	Level				
Pai	Part - A 10X1=10								
1	а	Define Point-to-point networks?	1	CO1	K1				
	b	List the differences between OSI and TCP reference models	1	CO1	K2				
	С	Do routers have IP addresses? If so, how many?	1	CO3	K4				
	d	Write the purpose of cookies?	1	CO4	K4				
	е	How is Host aliasing used?	1	CO4	K1				
	f	Convert the IP address 223.1.3.27 in to 32-bit binary equivalent.	1	CO3	К3				
	g	What is subnet?	1	CO3	K4				
	h	Discuss single-hop infrastructure based wireless networks	1	CO2	K2				
	ı	Why network need security?	1	CO2	K4				
	j	Define firewall	1	CO2	K1				
Par	t - B			4X1	5 =60M				
		UNIT - I							
2	a	"Computer networks are useful for real time applications", Justify.	8M	CO1	K4				
	b	Describe in brief the design issues for the layers	7M	CO1	K4				
		(OR)							
3	а	Explain in detail about OSI Reference Model with neat	10M	CO1	K2				
		sketch.							
	b	Differentiate a circuit-switched network with a packet-switched	5M	CO1	K2				
		network.							
		UNIT - II							
4	а	Outline the general formats of HTTP request and response	8M	CO4	K1				
		message for a web page							
	b	Summarise the process of how people send and receive messages	7M	CO4	K2				
		with SMTP.							
		(OR)	1 1		 				
5	а	Analyse the causes and cost of congestion control with an	8M	CO4	K4				
	<u> </u>	example scenario.							
	b	Evaluate UDP checksum with an example.	7M	CO4	К3				
	1	UNIT - III	1 1		Г				
6	a	What is Virtual circuit network, explain in detail?	9M	CO3	K2				
	b	Explain error detection and correction techniques.	6M	CO3	K5				
		(OR)	, ,		ı				
7	а	Illustrate the distance vector routing algorithm with an example.	8M	CO3	К3				
	b	Consider the network shown below, with the indicated link costs.	7M	CO3	К3				
		Use Dijkstra's shortest path algorithm to compute a table to find							
		the shortest past from F to all network nodes.							

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		H) 14 2 6 4 B 6 1 D 2 A F 1 C 4 A							
UNIT - IV									
8	а	Analyse CDMA with simple example.	7M	CO2	K2				
	b	Explain 802.11 architecture.	8M	CO2	K2				
(OR)									
9	а	Describe the functioning of DES algorithm with a neat sketch	7M	CO2	K2				
	b	What is firewall? Explain the categories of firewall.	8M	CO2	K1				