Code: 19EC3701

## IV B.Tech - I Semester - Regular Examinations - DECEMBER 2022

## COMMUNICATION NETWORKS (ELECTRONICS & COMMUNICATION ENGINEERING)

Duration: 3 hours Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.

- 2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
- 3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
- 4. All parts of Question paper must be answered in one place.

BL – Blooms Level

CO – Course Outcome

## PART - A

		BL	CO
1. a)	Differentiate internet and intra net.	L2	CO1
1. b)	Interpret how HTTP is similar to FTP?	L3	CO2
1. c)	Compare connection less and Connection	L4	CO3
	oriented protocol.		
1. d)	Produce the services of network layer.	L3	CO4
1. e)	Identify any two error detection techniques.	L2	CO4

## PART - B

			BL	СО	Max. Marks		
	UNIT-I						
2	a)	Explain the differences between network	L2	CO1	6 M		
		core and network edge.					
	b)	Compare and contrast between ISO-OSI	L2	CO1	6 M		
		and TCP network models.					

		OR					
3	a)	Describe the ISO-OSI reference model.	L2	CO1	6 M		
		Discuss the functions of each layer.					
	b)	Explain in detail about packet switched	L2	CO1	6 M		
		network.					
UNIT-II							
4	a)	Produce any three FTP models in detail.	L3	CO2	6 M		
	b)	Sketch HTTP header format.	L3	CO2	6 M		
OR							
5	a)	Illustrate socket programming for	L3	CO2	6 M		
		connection oriented protocol.					
	b)	Interpret the use of Domain name system.	L3	CO2	6 M		
	UNIT-III						
6	a)	Compare TCP and UDP header, list the	L4	CO3	7 M		
	ĺ	fields in TCP header that are missing					
		from UDP header. Give the reason for					
		absence.					
	b)	Explain Go-back-n protocol with an	L4	CO3	5 M		
		example.					
		OR					
7	a)	Explain Transport layer services and	L4	CO3	6 M		
		functions.					
	b)	Point out the principles of the reliable	L4	CO3	6 M		
		data transfer.					
	UNIT-IV						
8	a)	Show IPv6 header format with a neat	1.3	CO4	6 M		
		sketch.			0 1/1		
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	b)	Compare static and dynamic routing.	L3	CO4	6 M		
		Illustrate distance vector routing with an					
		example.					
	OR						
9	a)	Demonstrate the working of Internet	L3	CO4	6 M		
		control message protocol with an					
		example.					
	b)	Illustrate broadcast and multi cast routing	L3	CO4	6 M		
		and compare them.					
		UNIT-V					
10	a)	Explain 802.11 wireless LAN.	L2	CO1	6 M		
	b)	Discuss the concept of redundancy in	L4	CO3	6 M		
		error detection. Explain forward error					
		correction scheme with an example.					
	OR						
11	a)	Differentiate single bit error from a burst	L4	CO3	6 M		
		error. Explain single bit error with an					
		example.					
	b)	Illustrate the concept of cellular internet	L3	CO4	6 M		
		access with a neat sketch					