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Fifth Semester B.E. Degree Examination, July/August 2021 **Computer Networks**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

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1	a.		
	b.	Describe persistent and non-persistent connections of 111 11.	(10 Marks)
2	a.	Explain the services offered by DNS and also explain the DNS record and message	e format. (10 Marks)
	b.	Define File Transfer Protocol, its connections and working. Writ about FTP comreplies also.	(10 Marks)
3	a. b.	stat transition they undergo during if Connection	(08 Marks) g different ta transfer (08 Marks)
	c.	iii) Connection termination. Define rdt_send () and rdt_rcv().	(04 Marks)
4	a. b.	Explain TCP segment and its services with a diagram. What is congestion in a network? How TCP handles congestion.	(10 Marks) (10 Marks)
5	a. b.	What is routing? Explain the structure of router with a neat diagram. Explain the spanning tree algorithm and give its advantages and disadvantages.	(10 Marks) (10 Marks)
6	a. b. c.	Describe Network layer services briefly. Describe Network layer services briefly. Describe Network layer services briefly.	(08 Marks) (06 Marks) the router? (06 Marks)
		Define 5 elements of mobile network architecture.	(10 Marks)
7	a b	The direct and Direct Routing to Mobile node.	(10 Marks)
8	a b	E 1-in A cont Discovery with diagram.	(10 Marks) (05 Marks) (05 Marks)
) a	 Explain PCM Encoder and PCM Decoder. Briefly explain properties of Video and Audio. Describe the DiffServ Internet Architecture. 	(07 Marks) (07 Marks) (06 Marks)
1	.0 8	a. Illustrate the interaction between Client and Server for HTTP streaming fo Video.	r Audio and (08 Marks) (08 Marks)
		 b. Explain content Distribution Network. c. Mention limitations of Best – Effort IP service. 	(04 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.