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

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15CS52

Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 Computer Networks

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1 a. Discuss the two application architectures.

(08 Marks)

b. Distinguish between non-persistent HTTP and persistent HTTP.

(08 Marks)

OR

2 a. Discuss the File Transfer Protocol (FTP).

(08 Marks)

b. Explain DNS name resolution, with an example.

(08 Marks)

Module-2

3 a. Explain the reliable data transfer 2.0 (rdt 2.0)

(08 Marks)

b. Explain Go-Back N protocol.

(08 Marks)

OR

a. Explain the flow control mechanism in TCP.

(08 Marks)

b. Explain the TCP Tahoe Congestion Control mechanism.

(08 Marks)

Module-3

5 a. Explain the architecture of router.

(08 Marks)

b. Apply the link state routing protocol algorithm to find shortest path from source node A to all other nodes on the following Fig.Q.5(b). (08 Marks)

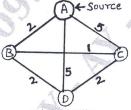


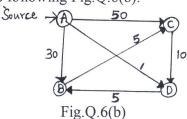
Fig.Q.5(b)

OR

6 a. Discuss hierarchical routing protocol.

(08 Marks)

b. Apply the distance vector routing protocol algorithm to find the shortest path from source node A to all other nodes on the following Fig.Q.6(b). (08 Marks)



1 of 2

			15CS52
		Modulo 4	
7	0	Module-4 Explain 3G (voice and data) cellular network architecture.	(08 Marks)
7	a. b.	Explain 5G (voice and data) centular network architecture. Explain the vocabulary of Mobile-IP networks.	(08 Marks)
	0.	Explain the vocabulary of two lie if now one.	,
		OR	
8	a.	Discuss any one routing algorithm in Mobile-IP networks.	(08 Marks)
	b.	Discuss the handoff procedure in GSM networks.	(08 Marks)
0	12.	Module-5 Discuss the three types of multimedia networking applications.	(08 Marks)
9	a. b.	Explain the challenges in streaming stored video data.	(08 Marks)
	υ.	Explain the chancinges in streaming stored video data.	(001111111)
		OR	
10	a.	Illustrate the content delivery in Netflix.	(08 Marks)
	b.	Explain the differentiated service architecture for QoS.	(08 Marks)

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