CENTRAL 15CS52 LIBRARY

USN

Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 **Computer Networks**

Time: 3 hrs.

Max. Marks: 80

(08 Marks)

(08 Marks)

1 11	ne:	3 nrs.	Marks: 80
	Λ	ote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Module-1	
1	a.	Explain client server and peer-to-peer architecture.	(08 Marks)
	b.	Describe HTTP with persistent and non-persistent connections.	(08 Marks)
			,
		OR	
2	a.	Discuss how files are distributed in peer-to-peer application.	(08 Marks)
	b.	Demonstrate socket implementation using TCP.	(08 Marks)
		Module-2	
3	a.	With a diagram, explain the connection-oriented multiplexing and de-multiplexing	ng.
			(06 Marks)
	b.	Elaborate the three way handshaking in TCP.	(05 Marks)
	c.	Discuss Go-Back N protocol.	(05 Marks)
		Ó OR	
4	a.	With a neat sketch, explain the TCP segment and its services.	(08 Marks)
	b.	Design rdt 2.0 protocol.	(08 Marks)
1		Module-3	
5	a.	With general format, explain various fields of IPV6.	(08 Marks)
	b.	Define routing algorithm. List the broadcast routing algorithms. Explain any one	(08 Marks)
		OP C	(oo marks)
6	a.	Illustrate Routing Information Protocol (RIP) with suitable diagram.	(08 Marks)
•	b.	Explain the spanning tree algorithm and give its advantages and disadvantages.	(08 Marks)
		Module-4	
7	a.	With a diagram, explain various components of GSM 2G cellular network archit	
		and a constant of the second	(08 Marks)
	b.	With a diagram, explain the following with respect to mobile IP:	(00 MI)
	G	(i) Agent discovery (ii) Registration with the home agent	(08 Marks)
	•	OR	
8	a.	Illustrate the steps involved when a base station does decide to hand-off a mobile	
	h	C ON IN LOOM THE	(08 Marks)
	b. c.	Compare mobile IP and GSM mobility.	(04 Marks)
	C.	With a diagram, explain the problem and its solution in direct routing.	(04 Marks)
		Module-5	
9	a.	With a neat diagram, explain the CDN operation.	(08 Marks)
	b.	Briefly explain the properties of Video and Audio.	(08 Marks)

OR

(ii) DASH

Explain the working procedure of leaky bucket algorithm.

b. Discuss the followings: (i) Adaptive streaming

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.