

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019 **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.	Explain HTTP messages.	(08 Marks)
	b.	Explain web caching with diagram.	(08 Marks)
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		OR	
2	a.	Explain FTP with its commands and replies.	(08 Marks)
	b.	Explain SMTP.	(04 Marks)
	c.	Explain DNS resource record.	(04 Marks)
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		Module-2	
3	a.	Explain Sender's view of sequence numbers and its operation in Goback N proto	col.
			(08 Marks)
	b.	Draw TCP segment structure and explain.	(08 Marks)
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		OR	
4	a.	Explain 3 way handshake and closing a TCP connection.	(08 Marks)
	b.	Explain the causes and costs of congestion.	(08 Marks)
		Module-3	
5	a.	With diagram explain router architecture.	(08 Marks)
	b.	Explain IP fragmentation.	(08 Marks)
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		OR	
6	a.	Explain distance vector algorithm.	(08 Marks)
	b.	Explain 4 types of hierarchical OSPF routers.	(04 Marks)
	c.	Compare link state with distance vector algorithm.	(04 Marks)
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_		Module-4	
7	a.	Explain components of a cellular network architecture.	(08 Marks)
	b.	Explain direct routing of a mobile node.	(08 Marks)
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8	a.	Explain steps of handoff a mobile user.	(08 Marks)
	b.	Explain HLR, VLR, home address, care-of-address.	(08 Marks)
Module-5			
9	a.	With diagram, explain naïve architecture for audio/video streaming.	(08 Marks)
	b.	Explain audio compression in internet.	(08 Marks)
OR			
10	a.	With diagram, explain interaction between client and server using RTSP.	(08 Marks)
	h	Explain how stranging from stranging sorver to a modio player is done	(00 Marks)

b. Explain how streaming from streaming server to a media player is done.

(08 Marks)