

16/17MCA31

Third Semester MCA Degree Examination, Jan./Feb. 2021 Computer Networks

Max. Marks: 80

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

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		Module-1	
1	a.	Explain TCP/IP reference model.	(08 Marks)
	b.	What do you mean by transmission impairments? Which are the different	types of
			(08 Marks)
2	201	OR OR	(00 Mayles)
2	a.	Explain FDM and TDM.	(08 Marks)
	b.	Explain First-Generation (1G) mobile phones.	(08 Marks)
		Module-2	
3	a.	Explain simplex stop and wait protocol for a noisy channel.	(08 Marks)
	b.	Explain protocol using go-back-N.	(08 Marks)
		OB	
,		OR	(00 Mayles)
4	a.	Explain Bit-Map protocol and token passing protocol.	(08 Marks)
	b.	What is hidden terminal and exposed terminal problem? Explain MACA (Multiplied Collision Associations) protocol	
		with Collision Avoidance) protocol.	(08 Marks)
		Module-3	
5	a.	Compare datagram network and virtual circuit network.	(04 Marks)
	b.	Explain count to infinity problem.	(04 Marks)
	C.	Explain link state routing.	(08 Marks)
		OR	
6	2	Explain Leaky Bucket and Token Bucket algorithms.	(08 Marks)
U	a. b.	Explain tunneling.	(08 Marks)
	υ.		()
		Module-4	
7	a.	Explain UDP header.	(05 Marks)
	b.	Explain Remote Procedure Call.	(05 Marks)
	C.	What do you mean by jitter? How do you control jitter? Explain.	(06 Marks)
		OR	
8	a.	Explain TCP connection establishment and TCP connection release.	(08 Marks)
Ü	b.	Explain TCP sliding window.	(08 Marks)
		Module-5	(00 Maules)
9	a.	Explain the architecture of electronic mail.	(08 Marks)
	b.	Explain server forms and web proxies.	(08 Marks)
		OR	
10		Write short notes on the following:	
. 0	a.	MIME	
	b.	HTTP	
	c.	SIP	
	d.	Content delivery networks	(16 Marks)

d. Content delivery networks.

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

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