Roll No.

Total Pages: 03

OMCA/M-17

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COMPUTER NETWORKS AND DATA COMMUNICATION MCA-202

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all. Q. No. 1 will be compulsory. In addition to compulsory question, select at least one question from each Unit.

(Compulsory Question)

- What are the factors on which data rate depends in data communications?
 - (b) Bring out the difference between router and gateways.
 - (c) Discuss ADSL.
 - (d) Explain the types of errors.
 - (e) Explain the following:
 - (i) Bandwidth
 - (ii) Throughput
 - (iii) Latency.
 - (f) Distinguish between radio waves and infrared waves.
 - (g) Define the term Asynchronous TDM.
 - (h) What is Link State Routing.

 $8 \times 3 = 24$

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P.T.O.

Unit I

2.	(a)	Explain different categories of network and
		differentiate between them.
	(b)	Explain the architecture of ATM with a diagram
	. ,	show how VP's and VC's are established.
3.	(a)	Differentiate TCP/IP and OSI reference model. 10
	(b)	Write a note on Frame Relay.
		Unit II
4.	Disc	russ different forms of wireless transmission. 14
5.	(a)	What is time division multiplexing? Explain, how
		statistical TDM overcomes the disadvantages of
		synchronous TDM ?
	(b)	Discuss Differential Manchester Encoding. 4
		Unit III
6.	(a)	Explain with the example, how encoding and
		decoding is done in CDMA techniques.
	(b)	What is framing? Explain bit and character stuffing
		with an example.

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7.	(a)	Discuss the design issues related with Data Link	
		Layer. 7	
	(b)	Write a note on any one of the following . 7	
		(i) DQDB	
		(ii) GSM.	
Unit IV			
8.	(a)	Distinguish between broadcast network and point-	
		to-point network. 7	
	(b)	Explain open loop and closed loop congestion	
		control. 7	
9.	Expl	ain different routing algorithm in detail. 14	

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