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Total Pages: 03

BCA/D-17

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COMPUTER NETWORKS BCA-354

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt *Five* questions in all. Q. No. 1 is compulsory. In addition to compulsory question, student will have to attempt *four* more questions selecting *one* question from each Unit. All questions carry equal marks.

Compulsory Question

1.	(a)	Write a short note on Frame Relay.	2
	(b)	Explain different types of Computer Network.	Ą
	(c)	What do you mean by Wireless LAN?	2
	(d)	Write a short note on Cable Modem.	2
,	(e)	What is Load Shedding? Explain.	2
	(f)	Write a short note on Digital Certificate.	2
	(g)	Write a short note on Gigabit Ethernet.	2

Unit I

Discuss OSI reference model in detail. Also discuss advantages and disadvantages of OSI model.

3.	(a)	Discuss Connection-oriented and Connectionless	S
		Services with examples.	3
*	(b)	Discuss any four network hardware components.	3
		Unit II	
4.	(a)	What do you mean by Multiplexing? Explain	1
		different types of Multiplexing techniques.	3
	(b)	What do you mean by transmission media? Explain	1
		unguided media in detail.	3
5.	Disc	cuss modulation in detail. Also discuss different types	S
	of	modulation techniques with advantages and	1
	disa	dvantages of each technique. 8,8	}
		Unit III	
6.	(a)	What do you mean by framing in networking	?
		Discuss different framing methods.	3.
	(b)	Discuss Carrier Sense Multiple Access (CSMA) in	ì
	•	detail.	3
7.	(a)	Explain Hamming code for error detection and	1
		correction.	}
	(b)	Discuss sliding window protocol in detail.	}

Unit IV

- 8. What do you mean by Routing? Discuss different types of routing algorithm with its advantages.

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- Explain congestion and causes of congestion. Also discuss different congestion control algorithms in detail.

