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COMPUTER NETWORKS BCA-303

Time: Three Hours]

[Maximum Marks: 80

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

(Compulsory Question)

1.	(a)	Discuss transmission impairment.	4
	(b)	Discuss Bridges and Switches in brief.	4
	(c)	What is Token Ring?	2
	(d)	Explain Digital Certificate.	2
	(e)	Explain Border Gateway Protocol.	4

Unit I

(a) What is OSI reference model? Explain various layers in it.

b) Explain various network topologies with examples.

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P.T.O.

3.	(a)	What is Computer Network? Discuss the types of computer network along with advantages and
		disadvantages. 12
	(b)	Explain Web-based Model. 4
		Unit II
		The second secon
4.	(a)	Differentiate between guided and unguided media
		in detail.
	(b)	Explain communication sandlites. 4
5.	(a)	Explain the concert of switching in data
		communication: Siso discuss different types of
		switching. Will 2
	(b)	Explain analog to analog conversion techniques in
	(0)	detail.
		Unit III
6.	Wha	at is flow control in data transmission and why is it
	requ	ired ? Explain different methods for flow control.
		16
7.	(a)	Explain Cyclic Redundancy Check (CRC) in detail.
		8
	(b)	Elaborate on Ethernet, Fast Ethernet and Switched
		Ethernet.

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Unit IV

8.	(a)	What do you mean by security of network? Discuss			
		different security attacks in data transmission.	8		

- (b) Explain congestion control techniques in detail. 8
- 9. (a) Explain various routing algorithms in detail. 10
 - (b) Write short note on Choke 'Packets and Digital Signature'.6