Roll No
Printed Pages · 2

1244

BCA / D-18 COMPUTER NETWORKS Paper-BCA-354

	•	Paper-BCA-354		
Time allowed: 3 hours] [Maximum n			n marks : 80	
No	q q s	Student will be required to attempt f Question No. 1 is compulsory. In add question, student will have to attempt relecting one question from each unit	lition to four mo	compulsory re questions
		Compulsory Question		
1.	(a)	Write ways of connecting to interne	t at hom	ie. 4
	(b)	What do you mean by VLANs? Exp	plain.	2
	(c)	Write short note on Token Ring?		2
	(d)	Explain digital signature.		2
	(e)	What is flow control in data transm	ission?	2
	(f)	Write a short note on ATM.		. 2
	(g)	Explain DSL modem.		2
		Unit-I		•
2.	2. (a) Explain the various layers of OSI reference model i			
		detail.		12
	(b)	Explain Distributed system in detail	1.	- 4
3. (a) Distinguish between client/sever and ped			-	
		network model.		8.
	(b)	What do you mean by network topolo	ogy?Dis	
	3 4 4	topologies.	r,>	8 (Turn outer
	244		₹w*	[Turn over

Unit-II

		Unit-11	
4.	(a)	What is data transmission mode? Explain different ty	pes
		of data transmission modes.	8
	(b)	What do you mean by switching? Explain varie	ous
		switching techniques.	-8
5.	(a)	,	air
		guided media in detail.	8
	(b)	Explain Pulse code and Delta modulation in detail.	8
		Unit-III	
6.	(a)	What is flow control in data communication? Expl	ain
		different flow control protocols.	. 8
	(b)	Explain Cyclic Redundancy Check (CRC) in detail w	ith
		suitable example. TOPPERWorld	8
7.	(a)	What is media access control ? Explain ALOHA	&
		Slotted ALOHA in detail.	8
	(b)	Explain different error detecting techniques in detail	: 8
		Unit-IV	
8.	Exp	lain the following in detail:	16
	(a)		
	(b)	Digital Certificate	
	(c)	Encryption methods	
	(d)	Security attacks	
9. ·	Wh	at do you mean by Routing? Discuss different types	۰£
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