CBCS SCHEME

U	SN		15CS46
		Fourth Semester B.E. Degree Examination, June/July 20	
Data Communication			
Time: 3 hrs.			
	1111	Max	Marks: 80
		Note: Answer any FIVE full questions, choosing one full question from each n	and del
1	8	a. Define Data Communication Explain any two fundamental characteristic communication and basic network topology	
	1.	communication and basic network topology.	cics of Data
	ľ	D. List out the causes of transmission impairment. Explain the characteristics of digital signals.	(08 Marks)
		digital signals.	(08 Marks)
2	0	OR	(oo Marks)
2		List out the network criteria. Explain TCP/IP protocol suite with neat diagram.  Define Line coding and list out its about its	(08 Marks)
		Define Line coding and list out its characteristics. Represent the following polar and bipolar scheme.	ng sequence
		a about the second of the seco	(08 Marks)
3	a.	List out the types of transmission Module-2	25
		List out the types of transmission modes. Explain the steps of pulse code process, with an example.	modulation
,	b.	Explain FSK and QAM modulation process, with suitable example.	(03 Marks)
		On	(08 Marks)
4	a.	Define Multiplexing. Explain synchronous TDM with data rate managem	3)
	h	limitations.	ent and its
	b.	List out three phases of circuit – switched network. Explain Data gram switche	(10 Marks)
			(06 Marks)
5	a.	Define Cyclic code Find the code	
		Define Cyclic code. Find the codeword using CRC for given data word 1001 1011.	and divisor
	b.	Define Frames. Explain the steps of flow control at data link layer with diagram.	(08 Marks)
			(08 Marks)
6	a.	Explain Stop – and – Wait protocol with neat diagram.	
	b.	Explain the frame structure of PPP protocol, with neat diagram.	(08 Marks)
		Medria	(08 Marks)
7	a.	List out the Random Access Protocols and explain CSMA (CA	440.
	b.	List out channelization protocols. Explain CDMA.	(10 Marks)
0		OP	(06 Marks)
8	a. b	Explain Wireless – LAN, with neat architecture and list out its al	(09 Mayles)
	b.	Explain the layers of Bluetooth, with neat diagram.	(08 Marks) (08 Marks)
9	0	Module-5	
7	a.	List the difference between IPV <sub>4</sub> and IPV <sub>6</sub> . Explain any two methods of converting IPV <sub>4</sub> to IPV <sub>6</sub> .	from
	b.	Explain the IR Datagram Header former	(08 Marks)
		The state of the s	(08 Marks)

Define Home address in mobile IP. Explain three phases for communication in mobile IP. 10

b. Define WiMax. Explain fourth generation (4G) of cellular telephone.

(08 Marks) (08 Marks)

(08 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.