

VI Semester B.Sc. Examination, November/December 2013 (Scheme Semester)

Paper – 8 : Computer Science Basics of Communication, Networks and Internet

A		Hours Max. Mark	19/6	20
lim	ie:3	Max. Mark What is Multiplexing 2 Explain frequency division multiplexing with a near	S . C	oU.
	Insi	truction : Answer all the questions.		
1.	a1)	What is data communication? Explain the five components in data communication.		6
	a2)	Explain different forms of data representation. OR Explain the importance of RARP, RARP and ICMR protocolors.		6
	b1)	Explain different data transmission modes with examples.		6
	b2)	Discuss any three Network Topologies with their advantages and disadvantages.		6
2.	a1)	Explain different types of antenna used in microwave communication.		6
	a2)	Explain frequency reuse principle in Cellular Telephony. OR		6
	b1)	Explain different categories of satellites.		6
	b2)	Explain Co-axial cable with their advantages and disadvantages.		6
3.	a1)	Define the following terms: a) Wavelength b) Frequency c) Composite signal d) Bandwidth e) Bit rate f) Phase		6
	a2)	Explain any one of error detection method with an example. OR		6
	b1)·	Explain different transmission Impairment.		6
	b2)	Explain Amplitude Modulation with a neat diagram.		6
			P.T.	0.



4. a	With a neat diagram explain Pulse Code Modulation. OR	12
b	1) Explain ASK and PSK with neat diagram.	8
b	2) Write a note on carrier signal.	4
5. a	1) What is Multiplexing? Explain frequency division multiplexing with a neat diagram.	8 ins
ə 8	(a2) Compare logical address with physical address.	(ta 4
	Explain different forms of data representation.	
ŀ	21) Explain the importance of RARP, RAP and ICMP protocols.	12
6. 8	a1) Write the functions of Bridges and explain simple and learning bridge.	(rd 8
0	a2) Write a note on gateway.	(Sd 4
3	Explain UDP, HTTP and FTP. Explain requency reuse principle in Cellula 11 and FTP.	12 (S6
7.	Answer any four questions: (4	1×2=8)
	Explain different categories of satellites. ? loootorq a si tariW (a	
	d) What is a Router?	3. a1)
	f) What is a cross-talk?	