Total No. of Questions: 10 | | Total No. of Printed Pages: 2 Roll No. EC-601(N) B. E. (Sixth Semester) EXAMINATION, June, 2011 (Electronics & Communication Engg. Branch) DATA COMMUNICATION AND NETWORKS [EC-601(N)] Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 35 Note: Attempt one question from each Unit. All questions carry equal marks. Unit-1 1. Explain TCP/IP protocol suits with different layers and addressing. Compare the layers of TCP/IP protocol suit with the layers of OSI models. Or 2. (a) What is the difference between layer delivery and transport layer delivery ? (b) What are headers and trailers and how do they get added and removed ? Unit-II 3. (a) What is multiplexing? Compare vavelength division and synchronous line division multiplexing. 10 (b) What is digital subscriber line? Explain any two of

10 P. T. O.

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Or

4. What is circuit switching? How is it different from packet	
4. What is circuit switching? How switching? Explain data gram networks with proper switching?	
example.	
Unit-III	
5. What is the formula to calculate the number of redundance bits required to correct bit in a given number of data bits	?
Also explain hamming codes.	0
Or	
6. Explain the following:	20
(a) Block coding	
(b) Noiseless channel	- K
(c) Redundancy	
(d) Cyclic code analysis	
Unit-IV	
7. What is ALOHA ? Explain and compare CSM.	A,
7. What is ALOHA : Explain and Contact of the Conta	20
CSMA/CD and CSMA/CA protocols.	
	10
8. (a) What is polling?	10
Weige short notes on the following .	10
(i) Fast Ethernet (ii) IEEE 002 11	
Unit-V	
9. What is IPv ₆ address? How is it different from IPv ₄ address space.	ess
mapping ? Explain with structure and address space.	20
Or (a)	20
10. Define the following terms :	20
(i) Active hubs (ii) Virtual LASS	ies
(111) 18/41	
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EC-601(N)	