Total No. of Questions: 10] [Total No. of Printed Pages: 2

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CS-604(N)

B. E. (Sixth Semester) EXAMINATION, June, 2011

(Computer Science & Engg. Branch)

COMPUTER NETWORKING

- [CS-604(N)]

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt one question from each Unit. All questions carry equal marks.

Unit-I

i.	(a)	write difference between OSI and TCP/IP model,	10
	(b)	Define three layers of X-25.	10
		Or	
2.	(a)	Write a short note on TCP & UDP.	10
	(b)	Compare ATM and Frame relay.	10

Unit-II

- 3. (a) Given an error free 64 kbps satellite channel which is used to send 512 byte data frames in one direction with very short acknowledgements coming back the other way. What will be the maximum throughput for window size of 1, 7, 15 and 127?
 - (b) State various design issues for Data link layer. 5

P. T. O.

[2]

Or

4.	(a)	What is meant by bit stuffing ? Explain.	10
		Draw and explain about the frame s various frame types in HDLC.	
		Unit — III	
5.	(a)	What is need of minimum frame size? If then calculate loss of bandwidth for Ethernet network?	it is 64 byte, 100 mbps
	(b)	Define FDDI.	6
		Or	337
6.	(a)	How can you compare I-persistent P-persistent CSMA?	CSMA and
	(b)	Explain the MAC frame format.	. 10
		Unit – IV	
7.	(a)	How many host per network in each IP can exist? Show with example.	address class
	(b)	Define the types of Routing algorithms.	12
		Or	12
	(a)	How can you compare IPv 4 and IPv 6?	10
		What are unicast routing protocols?	10
		Unit – V	10
9,	(a)	How would you define congestion control as	nd O S 2 10
	(b)	What is the difference betwen IP address number?	ses and port
		Or	10
10.	Writ	e short notes on the following:	5 each
	(i)	Virtual Terminal protocol	5 Cuch
		H-323 layering	
	(iii)	SMTP (iv) DNS	
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