USN

Eighth Semester B.E. Degree Examination, June/July 2017 **High Performance Computer Networks**

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

PART - A

		PART – A	
1	a. b.	Explain digital carrier systems in telephone networks. Compare and contrast the key innovation in CATV and wireless network.	(10 Marks) (10 Marks)
		How statistical multiplexing can achieve much higher multiplexing gain relative	ve to TDM
2	a.	1 FDM0	(10 Maiks)
	b.	Explain congestion control mechanism. Calculate the time required to transmit (packet of size 1000 bit with speed 1 Mbps.	(TRANS) a (10 Marks)
			(10 Marks)
3	a. b.	Explain IPV6 header. Compare and contrast TCP and UDP.	(10 Marks)
4		Write a short notes on:	(07 Marks)
-	a.	DWDM. SONET frame.	(07 Marks)
	b. c.	Function of overhead bytes in SONET.	(06 Marks)
		PART – B	***************************************
_		Explain main feature of ATM and ATM header structure.	(10 Marks)
5	a. b.	Explain signaling and addressing with respect to ATM network.	(10 Marks)
		Explain different link level design techniques.	(10 Marks)
6	a.	Discuss multiple access techniques.	(10 Marks)
	b.	Discuss multiple access teeriniques	
7	9	Explain means of control of different types of network.	(10 Marks)
/	a. b.	Discuss QoS.	(10 Marks)
0		Explain optical network and Ring network.	(10 Marks)
8	a. b.	The distriction of an antical cross connect with N input, output liver.	(10 Marks)
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