## 2. Any revealing of identification, ar value of substantial variations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your arrswers, compulsorily draw diagonal cross lines on the remaining blank pages.

## USN

## Seventh Semester B.E. Degree Examination, December 2010 **Computer Communication Networks**

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

ut teust 1 " O questions from euch purt.			
PART – A			
1	a.	What are the levels of addresses that are used in an internet, employing the	
	L	protocols? What are different types of services provided by telephone networks?	(10 Marks) (06 Marks)
	b. с.	Name the major components of a telephone network.	(00 Marks)
	U.	Name the major components of a telephone network.	(04 Marks)
2	a.	Explain the stop-and-wait protocol, for noisy channels.	(10 Marks)
	b. What are the three types of frames in HDLC protocol? Explain each of them briefly		
			(10 Marks)
3		Explain pure ALOHA protocol.	(06 Marks)
3	a. b.	Pure ALOHA network transmits 200-bit frames on a shared channel of 200 Kb	,
	υ.	the throughput if the system produces:	, , , , , , , , , , , , , , , , , , ,
		i) 1000 frames/sec ii) 500 frames/sec iii) 250 frames/sec?	(04 Marks)
	c.	Discuss the three controlled access methods.	(10 Marks)
4	a.	Explain the goals, MAC sub layer and physical layer of the fast Ethernet.	(10 Marks)
	b.	Explain briefly the baseband layer in the Bluetooth layers.	(10 Marks)
		PART – B	
5	a.	Explain briefly the three criteria of the transparent bridge.	(10 Marks)
	b.	Explain virtual LANs systems.	(10 Marks)
6	<b>a</b> .	Find the class of the following IP addresses:	
		i) 237.14.2.1	
		ii) 208.35.54.12	
		iii) 129.14.6.8	
		iv) 114.34.2.8	(04 Marks)

- What is NAT? How can NAT help in address depletion? (06 Marks) (10 Marks)
- Explain IPV6 addresses.
- a. Explain the path vector routing, for an interdomain system. (10 Marks) 7 (10 Marks)
  - b. Explain the Core-Based Tree (CBT).
- Write short notes on any TWO of the following: (20 Marks) 8
  - UDP a.
  - TCP b.
  - DNS

