USN					



10EC/TE71

## Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019 **Computer Communication Networks**

Time: 3 hrs.

Max. Marks: 100

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

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1	a.	Describe ISO-OSI reference model of computer network. Discuss the function of	each layer.
			(10 Marks)
	b.	Explain the operation of ADSL using multitone modulation with a neat diagram.	(06 Marks)
	C.	List different types of addressing in TCP/IP. Explain any one type of addressing in TCP/IP.	essing with
		suitable example.	(04 Marks)
2	a.	What is framing? Explain bit and character stuffing with help of example.	(06 Marks)
	b.	Explain different types of HDLC frames.	(06 Marks)
	C.	Explain design of stop and wait automatic repeat frames for a noisy channel.	(08 Marks)

3	a.	With a flow diagram,	explain 1-persistent	, P-Persistent and non-per	sistent MAC procedures.
					(06 Morks)

	Discuss with an example CDMA channelization pro			(08 Marks)
c.	Explain Token passing controlled access technique.			(06 Marks)
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4	a.	Explain IEEE802.3 MAC frame format.		(06 Marks)
	b.	Compare and contrast standard, fast and Gigabit Ethernet.		(06 Marks)
	c.	Explain in detail IEEE 802.11 MAC protocol.		(08 Marks)
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5	a.	Discuss different inter connecting devices on the basis of the layers they operate.	(08 Marks)
	b.	Explain bus back bone and star back bone networks.	(04 Marks)
	c.	What are virtual LAN's? What is the basis for membership in VLAN?	Enumerate
		advantages of having VI ANI's	(08 Marks)

C.	What are	virtual	LAN's?	What	is the	basis	tor membership	ın	VLAN?	Enumerate
	advantages	of havi	ng VLAN	's.						(08 Marks)

	Compare octiveen in Traine in To parties means along them	(08 Marks)
b.	Discuss three strategies proposed by IETF to help the transition between IPV4 and	I IPV6.

c. Write short	notes on	logical	addressing.
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(08 Marks) (04 Marks)

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7	Westa	ahaut	notes:
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- Forwarding techniques. (i)
- Routing Information Protocol.(RIP) (ii)
- Border Gateway Protocol (BGP). (iii)
- Multicasting distance vector routing protocol (DVMRP) (20 Marks) (iv)

Explain TCP and UDP datagram. (12 Marks)

Describe TCP connection establishment using three way handshakes. (08 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.