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Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019

Computer Communication Networks

Time: 3 hrs.

Max. Marks:100

1 -11	10.	Note: Answer FIVE full questions, selecting					
at least TWO questions from each part.							
RANGALORE							
		PART – A					
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 addre	ssing with				
		suitable example.	(04 Marks)				
A10.00-1			(0(M1)				
2	a.	What is framing? Explain bit and character stuffing with help of example.	(06 Marks) (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.	(Uo Marks)				
2		With a flow diagram, explain 1-persistent, P-Persistent and non-persistent MAC p	procedures				
3	a.	with a now diagram, explain 1-persistent, 1-1 ersistent and non-persistent with explain	(06 Marks)				
	b.	Discuss with an example CDMA channelization protocol.	(08 Marks)				
	c.	Explain Token passing controlled access technique.	(06 Marks)				
		Emplant token passing comments					
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)				
		PART – B					
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 without Britis. What is the same services	Enumerate				
		advantages of having VLAN's.	(08 Marks)				
			(00 Maula)				
6	a.	Compare between IPV4 and IPV6 packet headers along with extension headers.	(08 Marks)				
	b.	Discuss three strategies proposed by IETF to help the transition between IPV4 and	(08 Marks)				
	e.	Write short notes on logical addressing.	(04 Marks)				
	Υ.	Write Short notes on logical addressing.					

7 Write short notes:

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(i) Forwarding techniques.

- (ii) Routing Information Protocol.(RIP)
- (iii) Border Gateway Protocol (BGP).
- (iv) Multicasting distance vector routing protocol (DVMRP)

8 a. Explain TCP and UDP datagram.

(12 Marks)

(20 Marks)

b. Describe TCP connection establishment using three way handshakes.

(08 Marks)

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