Total No. of Questions : 6]	SEAT No.:
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[5060] - 808

M.E. (Computer Engineering) (Semester - II)

	AD	OVANCED C	OMPUTI	ER NETV	VORKS	
		(2	013 Patte	rn)		
Time : 3 I	Hours]				[Max.	Marks :50
Instructi	ons to the	e candidates:				
	1)	All questions a	re compulsor _.	y.		
	2)	Neat diagrams	must be draw	vn wherever	necessary.	
	3)	Figures to the	right side ind	licate full ma	rks.	
	4)	Use of Calcula	tor is allowed	<i>!</i> .		
	5)	Assume suitabl	le data, if ned	essary.		
Q1) a)		and explain diffe e to implement the			-	he issue of [9]
b)		espect to network on itable examples.	design, expla	in the issue o	f reliability aı	nd mobility [9]
Q2) a)	Explain model.	n use of balance o	-	nalysis of M	/M/2 and M/	M/n queue [8]
b)	-	n little's theorem ential distribution	-	nd what is m	nemory less p	property of [8]
Q3) a)	What is with it.	s centralized net	work design; OR	explain diff	ferent issues	associated [8]
b)	Define	minimum spanni		xplain Bin Pa	acking Algor	rithm. [8]
Q4) a)		s resource reserva n with suitable ex	-	ect to quality	of service in	networks?
b)		s Quality of Srev		k design, ex	plain any thi	ree Quality [8]

Q5) a) What is routing using masks? Explain with suitable examples.

OR

b) What is fragmentation? Explain fragmentation of IP packet. What if the size of an IP datagram exceeds the MTU? What if the route contains networks with different MTUs. [8]

Q6) Write Short notes on (any Three)

[9]

[8]

- a) Domain specific networks
- b) Computer network simulation
- c) Next generation networks architecture
- d) Wireless and sensor networks.

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