SOLVED MODEL QUESTION PAPER

Computer Networks (As Per R -18 Pattern) III rd Year B. Tech., Sem - I, (CSE)

Time: 3 Hours] [Maximum Marks: 75

Notes: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

		PART - A	5 Marks)
Q.1	a)	What is a network? (Refer Q.1 of Chapter - 1)	[2]
	b)	What is an Internet ? (Refer Q.23 of Chapter - 1)	[2]
	c)	Define flow control. (Refer Q.12 of Chapter - 2)	[2]
	d)	What is CRC checker? (Refer Q.15 of Chapter - 2)	[2]
	0)	Define source routing. (Refer Q.21 of Chapter - 3)	[2]
	f)	Define a network congestion? (Refer Q.38 of Chapter - 3)	[3]
	g)	List some of the quality of service parameters of transport layer. (Refer Q.6 of Chapter - 4)	[3]
	h)	Define slow start. (Refer Q.28 of Chapter - 4)	[3]
	i)	List the components of DNS. (Refer Q.9 of Chapter - 5)	[3]
	j)	Explain difference between persistent and non persistent HTTP. (Refer Q.69 of Chapter - 5)	[3]
		PART - B (50	Marks)
Q.2	a)	What is ARPANET? Draw and explain original ARPANET design. (Refer Q.25 of Chapter - 1)	
	b)	Discuss about unguided transmission media. (Refer Q.36 of Chapter - 1)	[5+5]
		OR	
Q.3	a)	Draw the layered architecture of the OSI reference model and write two services provided by each layer	of the
		model. (Refer Q.18 of Chapter - 1)	
	b)	State and explain four basic network topologies and write advantages of each type.	
		(Refer Q.6 of Chapter - 1)	[5+5]
Q.4	a)	What is bit and byte stuffing? Explain with an example. (Refer Q.10 of Chapter - 2)	
	b)	Explain about the Go-Back-N protocol. (Refer Q.41 of Chapter - 2)	[5+5]
		OR	
Q.5	a)	Explain MAC sub layer protocol in detail. (Refer Q.6 of Chapter - 2)	
	b)	Explain frame format of IEEE 802.4 standard. (Refer Q.57 of Chapter - 2)	[5+5]
Q.6	a)	What is congestion? Explain any one of the congestion control mechanism.	
		(Refer Q.43 of Chapter - 3)	

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	b)	How connectionless service is implemented? (Refer Q.10 of Chapter - 3)	
		OR	[5+5]
0.7	a)	What are the design goals of routing? (Refer Q.25 of Chapter - 3)	
u.	b)	Explain Leaky bucket algorithm and token bucket algorithm. (Refer Q.57 of Chapter -	2)
Q.8	a)	TCD transmission notice (Rotor O 20 . Co.	5) [5+5]
	b)	Explain socket programming with its primitives. (Refer Q.17 of Chapter - 4)	
		OR	[5+5]
Q.9	a)	Draw and explain TCP header format. (Refer Q.34 of Chapter - 4)	
4.0	b)	Explain TCP transmission policy. (Refer Q.39 of Chapter - 4)	
Q.10	a)	What is electronic mail? (Refer Q.30 of Chapter - 5)	[5+5]
	b)	Draw and explain header message format of DNS. (Refer Q.13 of Chapter - 5)	[5+5]
		OR	[3+3]
Q.11	a)	Explain SMTP protocol in detail. (Refer Q.40 of Chapter - 5)	
	b)	What is domain name space? Explain the hierarchy of name server. (Refer Q.11 of Ch.	apter - 5) [5+5]

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