Q.P. Code: 5650

COMP

1/12/15-

(3 Hours)

[Total Marks: 80

Question No 1 is compulsory.
 Attempt any three out of the remaining five questions.

Computer Network

	Q1. (a) Discuss the design issues for various layers	
	(b) Compare various types of the types of	0.5
	(b) Compare various types of network topologies (c) Differentiate between an IR all	05
	(c) Differentiate between an IP address and a MAC or physical address. What is the need to man IP address to MAC and a D. P. address.	05
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		` , O`
	(d) What is subnetting? What are the default subnet masks? Find the subnet address if the IP address is 120.21.73.04	S 05
_	address if the IP address is 129.31.72.24 and subnet mask is 255.255.192.0.	() 103
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7	Q2. (a) What is controlled access for collision control? Explain all the methods of	10
		10
	Q2. (b) What is the maximum window size allowed for selective repeat AROV	•0
	Explain why with appropriate scenario.	10
	O3. (a) What are the different towns 6	
- 2	Q3. (a) What are the different types of routing algorithms? When would we prefer to use hierarchical routing eyes I ink that the same of the property of the p	10
	use hierarchical routing over Link state routing?	10
	03. (b) What is traffic charing Faul 1.	
	Q3. (b) What is traffic shaping? Explain leaky bucket algorithm and compare it with token bucket algorithm.	
	tonon oucket argorithm.	10
	O4 (a) What are transport and the same transp	
	Q4. (a) What are transport service primitives? Discuss a brief	
	(b) Explain IPv4 header format in detail. If value at HLEN field is 1101 find the size of option and padding field?	10
	size of option and padding field?	10
	O5 (a) What is congestion controls Funt.	
	Q5 (a) What is congestion control? Explain various congestion prevention policies.	10
	Q5 (b) Write in brief about:	10
	i) PPP Frame format	10
	ii) CSMA/CD	10
	CSIMIA/CD	
	Q6. Write short notes on: (any To)	
	i) TCP connection management	20
	ii) Internetworking Devices	20
	iii) Border Gateway Protocol	
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