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Set No. 1

IV B.Tech I Semester Supplementary Examinations, March - 2017 COMPUTER NETWORKS

(Electronics and Communication Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

PART-A (22 Marks)

1.	a)	Give advantages of a client server system using LAN over the big time sharing system.	[3]
	b)	List out the advantages and disadvantages of circuit switching.	[3]
	c)	List out the situations in which pure ALOHA and slotted ALOHA performs better. Justify your answer.	[4]
	d)	What is a Choke packet? How do they help in congestion control?	[4]
	e)	List out the transport layer service primitives and their meaning.	[4]
	f)	Discuss in brief about Transposition Ciphers.	[4]
		$\underline{\mathbf{PART}} - \underline{\mathbf{B}} (3x16 = 48 Marks)$	
2.	a)	Explain the principle differences between connection-oriented communication and	
	1 \	connectionless communication.	[8]
	b)	Which characteristics affect the quality of service offered by a network? Justify your answer with proper example.	[8]
3.	a)	Explain in detail about broad band ISDN.	[8]
	b)	Describe about the architecture of ATM networks.	[8]
4.	a)	Write about CSMA and CSMA/CD in detail.	[8]
	b)	What is the need for bridges? Explain the working of 802.x to 802.y bridges in detail.	[8]
5.	a)	Explain in detail about broadcast and multicast routings.	[10]
	b)	What is the format of IPv4 header? Describe the significance of each field.	[6]
6.	a)	Explain the Real Time Transport Protocol.	[8]
	b)	Discuss in detail about the connection establishment and release in TCP.	[8]
7.	a)	What is authentication? Explain how the authentication is provided based on shared secret key?	[8]
	b)	Explain in detail about the MPEG standard for video compression.	[8]