Total No. of Questions-08]

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B.E V Semester Examination

BE-V/12(A)
233914
COMP. ENGG
Course No. COM 505
(Computer Networks)

Time Allowed- 3Hours

Maximum Marks-100

Note:

Five questions have to be attempted at least two questions from each section.

SECTION-A

- Why layered approach is followed in the OSI Reference Model? Explain the important design issues of bottom four layers of OSI Reference Model. (15)
 - b) Differentiate between (05)
 - i) Serial communication and parallel communication
 - ii) Point to point Networks and Broadcast Networks
- a) Define topology and explain the advantages and disadvantages of Bus, star and ring topology. (10)
 - b) Compare and contrast Pure ALOHA and slotted ALOHA show mathematically efficiency of both in relational performance. (10)

3.	a)	Discuss IEEE 802.3 LAN Standards.		
	b)	Explain different types of ARQs.	(07)	
	c)	What do you understand by 'Redundancy Redundancy Redund		
4.	a)	Write note on ATM networks	(07)	
	b)) Discuss following Transmission Media tail		
		i) Coaxial Cable		
		ii) Twisted pair	(07)	
	c)	Flow control can be handled in Transport Last as Data link layer. Is this a duplication of end comment in brief.	in well Please (06)	
	w	SECTION - B		
5.	a)	What is meant by Routing? Explain giving at least routing algorithms.	three (15)	
	b)	Compare datagram network and virtual network	(05)	
6.	a)	What is Congestion? Discuss various techniques for congestion control. (10)		
	b)	Write short note on Firewalls	(96)	

What do you understand by packet switching and circuit c) switching? (04)7. What is cryptography? Explain different methods of a) encrypting a message. Also explain DES (15)Discuss various QOS parameters for transport layer (05) b) What are the various security threats? ð. a) (07)Discuss the concept of Internetworking. b) (07)What is connection oriented communication and c) connectionless communication? (06)

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