Exam Roll No. 02014902014

END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY-JUNE 2016

	Fourth Semester [BCA] May-June 2016	
	ver Code: BCA-210 Subject: Computer Ne	-
	ie: 3 Hours Maximum Ma	**************************************
No	te: Attempt any five questions including Q no.1 which is compulsory.	Select
L	one question from each unit.	
(QI)	(a) What are the two types of line configuration?	(2.5)
7	(b) List four design issues in DLL of OSI model.	(2.5)
	(b) What is bandwidth-delay product?	(2.5)
	(d) Name two types of connectors for fiber-opertebles.	(2.5)
	(e) A multiplexer combines four 100kbps channels cables. Using a time slot of 2 bits. W	hat is the
	frame rate and frame duration?	(2.5)
	(f) What is dynamic routing?	(2.5)
	What is SYN flooding alteak?	(2.5)
	(h) Define Piggybacking and its benefit.	(2.5)
	(i) What does the Shannon capacity have to do with deta communication?	(2.5)
	(j) What is the use of sockets in process-to-process communication?	(2.5)
	What is the use of sockets in process-to-process communication:	(2.3)
	UNIT-I	
Q2	(a) Explain multimode and single mode for propagating light along optical channels.	(5)
	(b) Discus various design issues for presentation and application layer of OSI model.	(7.5)
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(23)	(a) What is the role of DTE-DCE interface in internetworking? Explain with some exam	
	(b) Describe the three types of transmission impairment.	(5)
	UNIT-II	
Q4	(a) Discuss LRC, VRC and CRC error detection mechanisms.	(7.5)
2	(b) What is Normal response mode and asynchronous balanced mode in data lin	k control
	protocols.	(5)
Q5	(a) What is Synchronous Time-division multiplexing? Explain the process of Interl	eaving in
Q2	TDM.	(7.5)
	(b) What is Broadband ISDN? How BRI and PRI works?	(5)
	(b) What is broadband is bit: flow bit and i til works:	(0)
	UNIT-III	(5.5)
Q6	(a) What is a Router? How router boots up? Explain the role of IOS in routers.	(7.5)
	(b) What is flooding in routing? Discuss the working of any dynamic routing algorithm.	(5)
67	(a) Explain the different types of classes in IPV4 addressing (classfull addressing)	(5)
**	(b) Describe distance vector and link state routing algorithm.	(7.5)
		` .
00	UNIT-IV	(5)
Q8	(a) What is port addressing? list three ICANN ranges for port addressing.	(5) (7.5)
	(b) With respect to TCP discus the role of the following:-	(7.5)
	(i) Sequence Number	
	(ii) Acknowledgement Number.	
	(iii) Window size	
	(iv) Urgent points.	
Q9	(a) Compare client-server and peer-to-peer application layer Paradigms	(5)
Z/	(b) With respect to UDP discus the role of the following:-	• •
	(i) Pseudo header	(3)
	(ii) Destination port number	(2)
	(iii) Length field.	(2.5)
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