## **END TERM EXAMINATION**

FOURTH SEMESTER [BCA] MAY-JUNE 2016

Paper Code: BCA-210 Subject: Computer Netu		tworks
Time: 3 Hours Maximum Marks		
Note: Attempt any five questions including Q no.1 which is compulsory. Select		
one question from each unit.		
Q1	(a) What are the two types of line configuration?	(2.5)
	(b) List four design issues in DLL of OSI model.	(2.5)
-	(c) 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. V	Vhat is the
	frame rate and frame duration?	(2.5)
	(f) What is dynamic routing?	(2.5)
	(g) 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)
UNIT-I		
Q2	(a) Explain multimode and single mode for propagating light along optical channels.	(5)
Q2	(b) Discus various design issues for presentation and application layer of OSI model.	(7.5)
Q3	(a) What is the role of DTE-DCE interface in internetworking? Explain with some exam.  (b) Describe the three types of transmission impairment.	nples.(7.5) (5)
	(b) Describe the face types of transmission impairment.	(5)
UNIT-II		
Q4	(a) Discuss LRC, VRC and CRC error detection mechanisms.	(7.5)
•	(b) What is Normal response mode and asynchronous balanced mode in data lin	nk control
	protocols.	(5)
Q5	(a) What is Synchronous Time-division multiplexing? Explain the process of Inter	leaving in
`	TDM.	(7.5)
	(b) What is Broadband ISDN? How BRI and PRI works?	(5)
	UNIT-III	
Q6	(a) What is a Router? How router boots up? Explain the role of IOS in routers.	(7.5)
4.	(b) What is flooding in routing? Discuss the working of any dynamic routing algorithm.	
		(F)
Q7	(a) Explain the different types of classes in IPV4 addressing (classfull addressing)	(5)
	(b) Describe distance vector and link state routing algorithm.	(7.5)
	UNIT-IV	
Q8	(a) What is port addressing? list three ICANN ranges for port addressing.	(5)
Q.	(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.	
	(A.C. and B. A.	(E)
Q9	(a) Compare client-server and peer-to-peer application layer Paradigms	(5)
	(b) With respect to UDP discus the role of the following:-	(3)
	(i) Pseudo header	(3)
	(ii) Destination port number	(2)
	(iii) Length field.	(2.5)

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