Paper Code: BCA-210

## **END TERM EXAMINATION**

FOURTH SEMESTER [BCA] MAY 2017
Subject: Computer Networks

Time: 3 Hours Maximum Marks: 75			
Note: Attempt any five questions including Q no.1 which is compulsory.  Select one question from each unit.			
Q1	<ul> <li>(a) Discuss different types of Network Models and topology.</li> <li>(b) Distinguish between FDM, TDM and WDM.</li> <li>(c) Describe three Internetworking Devices.</li> <li>(d) Discuss design responsibilities of Data Link layer of OSI Model.</li> <li>(e) What is two-node loop instability problem? Discuss its two solutions.</li> </ul>	7.0521 1.55	
	UNIT-I		
Q2	Describe different technical specifications of UTP, Coaxial cab Fiber optic cable as transmission media.	le and (12.5)	
Q3	Discuss the following:- (a) DTE-DCE Interface (b) Different types of Transmission Impairments.	(12.5)	
	(c) Design responsibility of transport layer in OSI model.		
UNIT-II			
Q4	Discuss the following w.r.t error detection and correction- (a) Redundancy (b) Hamming Code (c) Checksum	(12.5)	
Q5	Discuss the following w.r.t ISDN- (a) BRI (b) PRI	(12.5)	
	(c) Different Reference points		
UNIT-III			
Q6	Explain the algorithm which forms the basis for Distance vector Ro List its advantage and disadvantages.	outing? (12.5)	
Q7	What is Classful addressing? Discuss the role of Netid, Hostid, Subnetting and Supernetting.	Mask, (12.5)	
UNIT-IV			
Q8	Discuss responsibilities of Transport layer in OSI model. Explathree-way handshake to establish the connection.	(12.5)	
Q9	Explain the functionalities for the following:- (a) Application Layer (b) Session Layer (c) Presentation Layer	(12.5)	
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