BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)

Term-End Examination June, 2016

11286

CS-68: COMPUTER NETWORKS

Tin	ne : 2 .	hours Maximum Marks	Maximum Marks : 60		
Note: Question number 1 is compulsory . Attempt an three questions from the rest.					
1.	(a)	For n devices in a network, what are the number of cable links required for mesh and ring topologies in a full duplex mode?	4		
	(b)	What is the responsibility of the network layer in OSI model?	3		
	(c)	Discuss various multiplexing techniques.	3		
	(d)	Compare and contrast the selective repeat ARQ with Go-Back-N ARQ protocols.	4		
	(e).	What is the purpose of BGP?	3		
	(f)	What are the two main categories of DNS messages?	3		
	(g)	Which one has more complexity: a bridge or a router?	3+1		
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	(h)	How is an ATM virtual connection identified?	3
	(i)	What are the various advantages of ISDN?	3
2.	(a)	Differentiate between hubs and switches.	4
	(b)	What are the various communication modes in computer networks?	3
	(c)	Illustrate packet switching.	3
3.	(a)	What are the benefits of ATM?	5
	(b)	Explain the fields of TCP header.	5
4.	(a)	What is a collision in Ethernet?	5
	(b)	Illustrate the use of UDP at transport layer.	2
	(c)	How does RPC work?	3
5.	Writ	te short notes on the following: $4 \times 2\frac{1}{2} =$:10
	(a)	DNS	
	(b)	Router	
	(c)	FDM	
	(d)	NFS	