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

01205

Term-End Examination December, 2016

CS-68: COMPUTER NETWORKS

Tir	ne : 2	hours Maximum Marks	n Marks : 60	
Note: There are five questions in this paper. Question number 1 is compulsory. Answer any three questions from the rest.				
1.	(a)	Illustrate four basic topologies in terms of configuration.	4	
	(b)	What is the responsibility of transport layer in OSI model?	3	
	(c)	Explain the multiplexing techniques used in data communication using examples.	6	
	(d)	Explain the reasons for moving from Stop and Wait to ARQ protocol.	3	
	(e)	What is the purpose of DNS?	3	
	(f)	Distinguish between a bridge and a router.	4	
	(g)	Explain why padding is unnecessary in AAL1, but necessary in other AALs.	4	
	(h)	What are the functions of RIP message?	3	
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2.	(a)	What are the various types of bridges? Explain.	4
	(b)	Differentiate between TCP reference model and OSI reference model.	6
3.	(a)	What is the motivation for using ISDN? Describe BRI interface.	5
	(b)	On which layers do the following devices work?	5
		(i) Hub	
		(ii) MODEM	
		(iii) Switch	
	• .	(iv) Gateway	
		(v) Repeater	
4.	(a)	Explain the working of MAC sub-layer.	5
	(b)	Broadly describe various transmission media.	3
	(c)	How does link bandwidth affect bit transmission?	2
5.	Writ	te short notes on the following: $4 \times 2 \frac{1}{9} =$	10
	(a)	FTP	
	(b)	www	
	(c)	Packet Switching	
	(d)	RPC	
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