**CS-68** 

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

## **Term-End Examination**

10505

June. 2018

## **CS-68 : COMPUTER NETWORKS**

Time : 2 hours Maximum Marks : 60 Note: Question number 1 is compulsory. Attempt any three questions from the rest. 1. (a  $(\mathbf{b}$  $(\mathbf{c})$  $(\mathbf{d})$ (e) (f)

)	How is Selective Repeat ARQ better than Go-Back-N ARQ Protocol ? Explain.	F
	Go-Back-N Ang Flotocol ? Explain.	5
)	Explain the factors that cause congestion	
	in the subnet.	5
)	Which switching method is used in	
	telephone networks ? Discuss how the	
	message is transmitted.	5
)	Draw and explain the structure of ATM	
	adaptation layer.	5
)	Differentiate between simplex, half-duplex	
	and full-duplex.	6
	Explain the concept of piggybacking and	
	pipelining with the help of an example for	
	each.	4
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2.	(a)	What are the different types of twisted pair cables ? Explain the feature of each.	5
	(b)	Differentiate between virtual circuit subnet and datagram subnet.	5
3.	(a)	Which layer(s) of OSI model handles the "Flow Control" ? Explain the functions of this/these layer(s).	6
	(b)	Why is multiplexing needed in data communication system ? Briefly explain TDM and FDM.	4
4.	(a)	What is a Gateway ? How do X.25 gateways link hosts and LANs ? Explain.	5
	(b)	List one advantage and one disadvantage each of any five network topologies.	5
5.	Write	e short notes on the following : $4 \times 2 \frac{1}{2} = 1$	10
	(a)	IEEE 802.5	
	(b)	CSMA/CD	
	(c)	DNS	
	( <b>d</b> )	Firewall	