123A

Roll No	**************
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97679

BCA 5th Semester (New) Examination – November, 2019

DATA COMMUNICATION AND NETWORKING

Paper: BCA-303

Time: Three Hours]

[Maximum Marks: 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Explain the following:

16

- (a) Frame Relay
- (b) Digital carrier system
- (c) Network interpole cards
- (d) Internetworking

4			
2.	. Explain TCP/IP reference model in detail with prope		
	diagram.	16	
	•		
3.	Explain the following:	16	
	(i) Connection oriented and connectionless service	es	
	(ii) Peer to Peer model		
	UNIT – II		
	•		
4.	Explain the following:	16	
	(i) Representing Data as Analog Signals		
	(ii) Representing Data as Digital Signals		
5.	Describe the following:	16	
	(i) Data Encoding Techniques		
	(ii) Communication Satellites		
	UNIT – III		
6.	Explain in detail about sliding window protocols.	16	

UNIT - I

/ .	Exp	plain the following:	16
	(i)	FDDI	
	(ii)	Gateways	
	(iii)	Switches	
		UNIT – IV	
3.	Def	ine Routing and explain the following:	16
	(i)	Shortest Path Routing	
	(ii)	Flooding	
).	Exp	lain the following :	16
	(i)	Symmetric Key Algorithms	
	(ii)	Public Key Algorithms	