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Roll No.

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

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UNIT – I

2. Explain TCP/IP reference model in detail with proper diagram. 16
3. Explain the following : 16
- (i) Connection oriented and connectionless services
 - (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

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7. Explain the following : 16
- (i) FDDI
 - (ii) Gateways
 - (iii) Switches

UNIT – IV

8. Define Routing and explain the following : 16
- (i) Shortest Path Routing
 - (ii) Flooding
9. Explain the following : 16
- (i) Symmetric Key Algorithms
 - (ii) Public Key Algorithms

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