

Roll No.

97679

**BCA 5th Semester (New)
Examination – November, 2018
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.

1. Explain the following : 16
- (a) Frame Relay
 - (b) Dial up networking
 - (c) Late ways
 - (d) Inter networking

UNIT – I

2. Define Network Software. Explain network design issues and protocols. 16

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3. Explain the following : 16
(a) TCP/IP reference model
(b) Web based model

UNIT – II

4. Explain the following : 16
(a) Representing data as Analog signals
(b) Concept of data
(c) Baud rate

5. Describe the following : 16
(a) Wired and Wireless Transmission media
(b) Switching and Multiplexing

UNIT – III

6. Explain the following : 16
(a) Error detection and correction
(b) Framing

7. Describe the following : 16
(a) VLAN
(b) Wireless LANs

UNIT – IV

8. Define Routing. Explain different types of Routing. 16
9. Explain the following : 16
(a) Authentication
(b) Symmetric key Algorithms.

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