

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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