(180-CU-504031)

Roll No......................

ID—14537

B.C.A. EXAMINATION, 2024

(Fifth Semester)

DATA COMMUNICATION AND NETWORKING

BCA-303

Time : 3 Hours   Maximum Marks : 80

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

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

1. Define the following :   2×8=16

   (a) Router

   (b) Bridge

   (c) Data Rate

   (d) Bandwidth

   (e) Bluetooth

   (f) Ethernet

   (g) Digital Signature

   (h) E-Mail

Unit I

2. Explain Network topologies with their merits and demerits.   16

3. Discuss OSI reference Model in detail.   16

Unit II

4. Describe the term Multiplexing and switching   16

5. Explain various transmission Media in detail.   16

Unit III

6. Explain ALOHA and CSMA protocols.   16

7. What is Go-Back-N Protocol ? Differentiate between Go-Back-N and Selective repeat protocol.   16

Unit IV

8. Explain distance vector routing with a suitable example.   16

9. What is WWW ? Explain the services and features of WWW.   16