

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)  
Chromepet, Chennai — 600 044.

B.C.A. END SEMESTER EXAMINATIONS APRIL-2023

SEMESTER - IV

**20UACT4007 - DATA COMMUNICATION AND NETWORK**

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

### **Section B**

Answer any **SIX** questions ( $6 \times 5 = 30$  Marks)

1. Explain in detail various Addressing Levels.
2. Describe circuit switching with examples.
3. Relate Modern Round Ciphers in DES with example.
4. Illustrate the Transparent Bridges with example.
5. Explain categories of unshielded twisted-pair cables.
6. Describe the categories of Standard Ethernet.
7. Describe Asymmetric-key function with Diffie-Hellman algorithm.
8. Classify the types of Routing Algorithms.

### **Section C**

Answer any **THREE** questions ( $3 \times 10 = 30$  Marks)

9. Explain OSI Layers with example.
10. Classify the Error Detection and Correction techniques.
11. Differentiate Connection Oriented and Connectionless services.
12. Classify ISDN Protocol with Layer process with example.
13. Determine the TCP/IP Layer Model with neat diagram.

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