

**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.**

BCA. END SEMESTER EXAMINATIONS APRIL-2022

SEMESTER - IV

20UCACT4007 - Data Communication and Networking

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. Discuss in detail about Transmission mode with neat diagram.
2. How to compute redundancy bit using Hamming code ? Illustrate with suitable example.
3. Compare and contrast space and time division switching.
4. Write about broad band ISDN with example.
5. Assess the types of bridges by using functions and its performance.
6. Illustrate different types of network topology with neat diagram.
7. Give general format of Packet Layer Protocol (PLP) and Mention its categories in detail.
8. Describe the categories of web document in World Wide Web.

Section B

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

9. Explain OSI reference model with neat diagram.
10. Classify and describe the Guided media with neat diagram.
11. Describe two popular approaches in packet switching.
12. Exemplify Data Encryption algorithm working principles.
13. How to conclude the shortest path using the Dijkstra algorithm?
Explain with neat and suitable diagram.
