

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.Sc.(CGS) END SEMESTER EXAMINATIONS APRIL-2023

SEMESTER - II

**21UCGCT2002 - COMPUTER NETWORKS**

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

### **Section B**

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

1. Discuss briefly about Circuit switching technique.
2. Explain the use of data link layer in the internet.
3. Discuss about Ethernet and its categories.
4. Illustrate the classification of IP addressing and conclude how subnet addressing is performed.
5. What is transport protocol? Explain its elements.
6. Demonstrate various Transmission modes with a neat diagram.
7. Write short notes on elementary data link protocols.
8. What do you mean by Wireless LAN's? Give example.

### **Section C**

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

9. Identify the use of different types of Open Source Interconnection model.
10. Analyze error detecting mechanism with an example.
11. Examine in detail about channel allocation problem with suitable example.
12. Summarize congestion control algorithm and suggest proper methods to handle congestion in the subnet.
13. Demonstrate how the asymmetric key cryptography algorithm ensures privacy of the message.

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