

**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 - VI**

**10UCACT6012 & UCA/CT/6012 - Data communication and Networking**

**Total Duration : 3 Hrs.**

**Total Marks : 60**

**Section A**

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

1. Discuss about protocols and its standards.
2. Define network. Classify various types of networks with the neat diagram.
3. Write short note on:MODEM.
4. Explain various guided mediums with an example.
5. Discuss about Message Switching.
6. Elucidate about ATM topology.
7. State and explain an importance of Gateways.
8. Discuss about various types of Bridges.

**Section B**

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

9. Explain the architecture of OSI Model with the neat diagram.
10. Discuss various error detection and correction codes with an example.
11. Distinguish between connection oriented and connectionless services.
12. Describe about X.25 layers.
13. Why do we need routing algorithms? Elucidate any two routing algorithms.

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