

1489/V

B.C.A. (Part III) (V<sup>th</sup> SEMESTER) EXAMINATION, 2023-24  
(BCA-503: Computer Networks)

Paper : III

Time : Three Hours] [Maximum Marks :70

- Note:** (i) Answer **five** questions in all.  
(ii) Question No. **1** is **compulsory**.  
(iii) Answer remaining **four** questions, selecting **two** from each Section **A** and **B**.  
(iv) All questions carry equal marks.
1. Explain all parts of the following: -  
(a) What is Modulation?  
(b) What do you understand by VSAT?  
(c) Explain IP Addressing.  
(d) Explain the use of ARP in Networking.

### Section-A

2. What is multiplexing techniques? Explain its types also.
3. (a) Explain the concept of switching in Networking. Describe various switching techniques

4. (a) Discuss HDLC frame format as well as its control protocols.
5. (a) Describe SMTP and POP3 protocols in Details.

### **Section-B**

6. (a) Explain Error correction and recovery of Data Link Layer.  
(b) What is topology and Explain the working of taken Ring topology.
7. (a) Distinguish between Base Band and Broad Band.  
(b) Distinguish between Radio and Microwave communication.
8. (a) Briefly Explain Random Access protocol CSMA/CD.  
(b) Discuss various addressing modes of TCP/IP Layer eel Architecture.
9. Write notes on Any Two of the following:
  - (a) Network Devices
  - (b) Fiber Optics
  - (c) OSI Layers.

