





**SECTION - B (35 Marks)**Answer **ALL** questions**ALL** questions carry **EQUAL** Marks

(5 × 7 = 35)

| Module No. | Question No. | Question                                                                 | K Level | CO  |
|------------|--------------|--------------------------------------------------------------------------|---------|-----|
| 1          | 11.a.        | Explain the various types of layers in TCP/IP reference model.           | K2      | CO1 |
|            |              | (OR)                                                                     |         |     |
|            | 11.b.        | Illustrate the structure of coaxial cable with diagram.                  |         |     |
| 2          | 12.a.        | Explain the key features of gigabit Ethernet.                            | K2      | CO2 |
|            |              | (OR)                                                                     |         |     |
|            | 12.b.        | Illustrate the use of stop and wait protocol.                            |         |     |
| 3          | 13.a.        | Distinguish between the IP Version 4 protocol and IP Version 6 protocol. | K4      | CO3 |
|            |              | (OR)                                                                     |         |     |
|            | 13.b.        | Examine the requirements of link state routing algorithm.                |         |     |
| 4          | 14.a.        | Analyze the sliding window management in TCP.                            | K4      | CO4 |
|            |              | (OR)                                                                     |         |     |
|            | 14.b.        | Assume the salient features of socket programming.                       |         |     |
| 5          | 15.a.        | Examine the general architecture of SMTP protocol with diagram.          | K4      | CO5 |
|            |              | (OR)                                                                     |         |     |
|            | 15.b.        | Analyze the functions of Pretty Good Privacy (PGP) protocol.             |         |     |

**SECTION -C (30 Marks)**Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks

(3 × 10 = 30)

| Module No. | Question No. | Question                                                                   | K Level | CO  |
|------------|--------------|----------------------------------------------------------------------------|---------|-----|
| 1          | 16           | Explain the different types of layers in OSI reference model with diagram. | K2      | CO1 |
| 2          | 17           | Explain the general architecture of Bluetooth with a neat diagram.         | K2      | CO2 |
| 3          | 18           | Evaluate the implementation of distance vector routing algorithm.          | K5      | CO3 |
| 4          | 19           | Analyze how to establish a connection using three-way handshake in TCP.    | K4      | CO4 |
| 5          | 20           | Analyze the different types of firewalls.                                  | K4      | CO5 |

Z-Z-Z

END