

**SECTION - A**

**Answer any THREE questions**

**(3×15 = 45)**

- 1) Explain in detail about ISO/OSI model with neat diagram.
- 2) What is transmission media? Explain guided & unguided media with neat diagrams in detail.
- 3) Explain different types of switching techniques.
- 4) Discuss about Unicast routing protocols in network layer?
- 5) Explain symmetric and Asymmetric key cryptography in detail.

**SECTION – B**

**Answer any FIVE questions**

**(5×5 = 25)**

- 6) What is Data communication? Explain its components.
- 7) Define multiplexing. Explain different categories.
- 8) Write a short notes on LAN, MAN & WAN.
- 9) Write about TCP and UDP.
- 10) Discuss about the services of routing.
- 11) Describe naming concepts of switching.
- 12) Explain about SMTP protocol.
- 13) Write a short note on IP address calculation.

**SECTION-C**

**Answer ALL questions**

**(5×1 = 5)**

**14)** Define packet.

**15)** What is a Network?

**16)** What is Internet?

**17)** Define Hub & Bridge.

**18)** What is cryptography.

