

**IM.Sc. (DS) (NEP) Sem.-4 Examination****DSC-M-DTSC-244-T****Data Communication and Networking****April-2025****Time : 1-00 Hour]****[Max. Marks : 25****Attempt any FIVE out of SEVEN: (Each carries 05 marks)**

- Q.1** What is OSI Model? Discuss the functions performed by each layer in OSI model.
- Q.2** What is Computer Network? Discuss different types of it.
- Q.3** What is Error Correction? Explain Hamming Distance Code for 1-Bit Error correction with an example.
- Q.4** Explain Simplex, Half Duplex and Full Duplex terms with an example of each.
- Q.5** What is ALOHA? How it differs from slotted ALOHA.
- Q.6** Discuss CSMA and CSMA-CD protocol in detail.
- Q.7** What is an IP address? Discuss different classes of IPV4.

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