## Group B [6x5=30]

## **Attempts any SIX questions**

- 2. Define protocols. Explain WWW and HTTP protocol. [1+2+2]
- 3. Define transmission impairment. Explain the causes of impairments. [1+4]
- 4. Define HDLC. Explain the HDLC frame formats. [1+4]
- 5. Define IP Address. Specify IPv4 address classes with their address ranges. [1+4]
- 6. Define Subnetting. Suppose you are given network address: 192.168.10.0 and subnet mask:
- 255.255.250 then calculate total number of subnets and numbers of hosts per subnet. [1+2+2]
- 7. Draw a User Datagram format. Explain UPD operations. [2+3]
- 8. Write short notes on (Any Two): [2.5+2.5]
- a) DNS
- b) Public Key Cryptography
- c) VPN

## **Group C**

## Attempt any TWO questions. [2x10=20]

- 9. Critically analyze the OSI reference model. [10]
- 10. Explain the random-access protocols under the multiple access taxonomy. [10]
- 11. Explain the IPv4 Header format in detail. [10]