

UNIT - IV

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| 7 a. | Write the frame formats for HDLC frame and explain each field. | 7 |
| b. | Explain Transitional phases in point to point protocol. | 8 |
| c. | Describe Multilink PPP. | 5 |
| 8 a. | What is a random access protocol? Write procedure for pure ALOHA. | 10 |
| b. | Explain the switched Ethernet and Full-duplex Ethernet. | 6 |
| c. | Describe about Gigabit Ethernet. | 4 |

UNIT - V

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| 9 a. | With a neat diagram, explain the architecture of IEEE 802.11. | 6 |
| b. | What is Bluetooth? Explain two types of Bluetooth networks. | 8 |
| c. | Explain L2CAP. | 6 |
| 10 a. | Explain two commonly used Backbone architecture. | 10 |
| b. | How stations are grouped into different VLANs? | 6 |
| c. | What are the advantages of VLANS? | 4 |

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