

MAJOR PAPER VII – LOCAL AREA NETWORKS

UNIT – I

Introduction – types of networks – features – network topologies – LAN Components – Networking Operating system.

UNIT – II

Data communication – software & concepts – communication hardware & Channels –Application of Data communication.

UNIT – III

Topologies & Transmission Media – Introduction – LAN Topologies – star, Bus, Ring, Hybrid, Star – Ring Topology – Transmission Media – Twisted Pair wire, coaxial cables & Fibre optic cable – communication – Switching Techniques.

UNIT – IV

Protocols – introduction – LAN protocols – evaluation factors contention – carrier sense multiple access (CSMA) – CSMA with collision detection – CSMA with Collision Avoidance Polling – Token Parsing – open system interconnection model – Etharnet – Arcnet.

UNIT – V

Working security – introduction – RBK Analysis – types of threats – levels of security – LAN Database – Database service & Server – based Application.

TEXT:

“LOCAL AREA NETWORKS” by S.K.Basandra S.Jaiswel, Galgotia Publication.

REFERENCE:

“LAN TUTORAL A COMPLETE INTRODUCTION TO LOCAL AREA NETWORKS” , 3rd edition comdex computer publishing by the editors of LAN Magazine.