Subject Code: QG533A

PAPER - XXXIII - ELECTIVE - IV - COM/DCOM.

UNIT - I

Object Revolution: Objects and Classes - Encapsulation - Inheritance - Polymorphism - Abstract base classes - Objects from C++ perspective - Objects from a COM perspective - Inheritance in COM - Building COM Objects and Interfaces: Clients and Servers - Identifying Classes with GUIDs - The HERSULT return type - Anatomy of an interface - Exploring Iunknown.

UNIT - II

Implementing a COM Client and Server: Building the Ifortune Teller Interface – Unicode and Internationalized Strings – Cfortune Teller Rebuilt as ComFortune Teller – ComFortune Teller Factory Class – Completing the In-Process Server – Building the Client – Registering the Server.

COM Programming with MFC.

UNIT - III

Building COM Objects using the ActiveX: Template Library: ATL Architecture – New ATL Version of PizzaOrder Taker – Registry Scripting and the Registrar – A Distributed Overview: The Evolution of Distributed Systems – Distributed COM

UNIT - IV

Security: The Security Support Provider Interface – Overview of NT Security – COM Security – COM Object Identity – Processwide Security – Security Blankets and Impersonation – DCOM and CAPI – Using Different COM Threading Models: Thread Functions – Thread Types – Thread Synchronization – The COM Threading Model.

UNIT - V

Automation: Automation Features – Automation and Events Support – Automation Support in MFC and ATL – Special – Meaning DispIDs Using Distributed Objects: Remote Object Instantiation – Designing the Distributed Object Application – The Distributed Pizza – Ordering System – The Pizza Maker Server Spy.

Text Book:

COM/DCOM Primer Plus – Corry, Mayfield, Cadman – Techmedia First Indian Edition, 1999.