Subject Code: RN2K8C

PAPER - 8: ELECTIVE - I -C: COM /DCOM

Unit 1 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 HRESULT return type-Anatomy of an interface-Exploring Iunknown.

Unit 2 Implementing a COM Client and Server:

Building the IFortune Teller Interface –Unicode and Internationalized Strings – CfortuneTeller Rebuilt as ComFortuneTeller –ComfortuneTeller Factory class – Completing the In-Process Server –Building the Client –Registering the Server.

COM Programming with MFC

Unit 3 Building COM objects using the Active X:

Template Library: ATL Architecture –New ATL Version of Pizzaorder Taker- Registry Scripting and the Registrar.

A Distributed objects Overview:

The Evolution of Distributed systems-Distributed COM

Unit 4 Security:

The Security Support Provider Interface-Overview of NT Security -COM Security -COM object Identity - process wide Security-Security Blankets and Impersonation-DCOM and CAPI

Using Different COM Threading Models:

Thread Functions-Thread Types -Thread Synchronization-The COM Threading Model.

Unit 5 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 PizzaMaker Server-The PizzaMaker Server Spy.

TEXT BOOK:

COM/DCOM Primer Plus -Corry, Mayfield, Cadman-Techmedia First Indian Edition-1988.