

Code No: MC516

R06

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA V Semester Examinations, January 2012

MIDDLE WARE TECHNOLOGIES

Time: 3hours

Max.Marks:60

**Answer any five questions
All questions carry equal marks**

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1. a) Explain the evolution of centralized to distributed computing.
b) Discuss the pros & cons of client –server computing.
2. a) How does JDBC used in JAVA?
b) Explain briefly about ORB interfaces.
3. a) Explain about different call back interfaces.
b) Explain the programming with c# with a suitable example.
4. a) What is Late Binding? Explain.
b) Discuss on NET Remoting Layer.
5. a) Explain about Dynamic Invocation Interface.
b) Explains briefly about Applet implementation using ORB.
6. a) Explain the implementation of CORBA to IDL Mapping.
b) Discuss about CORBA activation services.
7. a) Write on CORBA beans.
b) Compare various event models.
8. a) Explain an EJB client/server development process.
b) Discuss on EJB Guidelines.
