

**Code: 9D25105**

M.Tech I Semester Supplementary Examinations August 2016

**MIDDLEWARE TECHNOLOGIES**

(Software Engineering)

(For students admitted in 2012, 2013, 2014 & 2015 only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) How heterogeneity exists in client/server environment? Explain.  
(b) Explain different client/server applications.
- 2 Define interfaces. Explain various types of interfaces implementation.
- 3 What are the components of an assembly structure? How do you organize them? Explain them.
- 4 (a) What is the meaning of custom attributes & their applications? Explain.  
(b) Explain in detail the evolution of framework from DCOM to .NET.
- 5 (a) How do you access data using ADO.NET? Explain.  
(b) Discuss common language infrastructure in detail.
- 6 (a) When does a transactional session bean implement session synchronization interface. Explain.  
(b) Write a program to implements Simple Smiley Java Bean.
- 7 (a) Explain CORBA constructed types with suitable examples.  
(b) Show the CORBA :: ORB initialization methods and also explain the services offered by ORB.
- 8 (a) Compare CORBA, .NET and EJB in brief.  
(b) Discuss CORBA component model in detail.

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