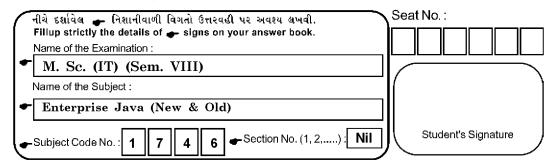# AF-1746

M. Sc. (IT) (Sem. VIII) Examination
April/May – 2015
Enterprise Java
(New & Old)

Time : 3 Hours]   [Total Marks : 70

Instructions : (1)

નીચે દર્શાવેલ ☞ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☞ signs on your answer book.

Name of the Examination :

☞ **M. Sc. (IT) (Sem. VIII)**

Name of the Subject :

☞ **Enterprise Java (New & Old)**

☞ Subject Code No. : **1 7 4 6**   ☞ Section No. (1, 2,......) : **Nil**

Seat No. :

Student's Signature

Q. 1. Answer the following Questions in brief. (Any 8)   16
   a) Explain the property of atomiciy and isolation in bean managed transaction.
   b) Explain how STS helps in Single Sign On?
   c) Explain the difference between Queue and Topic
   d) Explain the steps to create a REST application with suitable example.
   e) "Java EE works on n-Tier Architecture". Explain
   f) Explain the types of EJB based upon their accessibility constraints. Give example.
   g) Compare and contrast the functioning of RMI-IIOP and SOAP.
   h) What are Timers. Explain Interval Timer with example
   i) Write JPA entities to show the relationship between Company and its Employees

Q.2 Do as directed (7, 7, 4)   18
   a) A business logic is developed for a Auction Application where one can participate in several auctions at a time . Decide what type of EJB you will select. Explain its life cycle in context with the application
   b) Develop a remote business component which fetches the recent stock prices from the database everyday at every 5 minutes but not on saturday and sunday. A web application should display the recent stock prices. Use EJB and JSF

   c) Explain Asynchronous EJB with example

Q.3 Do as directed (7,7, 4)   18
   a) Explain Persistence unit, Persistence Context, Entity Manager and Queries with their methods and examples.
<div align="center">OR</div>

AF-1746]   1   **[Contd...**

a) What is persistence context and how entities are mapped into it. Write a code to add, remove and retrieve the data from Many to Many Relationship entities and how Java EE maps it in the Persistance API

b) Explain the life cycle and working of JMS in Message Driven Bean.

c) How will you apply the role based security to EJBs.

Q.4 Do as directed (7, 7,4)   18

    a) Explain the complete Stack of web services development in detail

    b) What is role based security? , how will you provide it to your enterprise applications using the details of registered users and groups stored in a database.

    c) Explain the steps to provide SSL security.

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