SB-3862

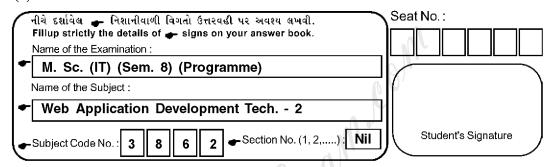## M. Sc. (IT) (Sem. VIII) (Programme) Examination

March / April – 2011

Web Application Development Tech. - II

Time : **3** Hours]   [Total Marks : **70**

Instructions :

(1)

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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. 8) (Programme)
Name of the Subject :
☛ Web Application Development Tech. - 2
☛ Subject Code No. : 3 8 6 2  ☛ Section No. (1, 2,.....) : Nil
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Seat No. :

Student's Signature

(2)   All the questions carry equal marks.

(3)   Support your answer by suitable diagrams.

1   Answer the following questions in brief (any seven)   **14**

     (a)   List down and emphasize the Java building blocks for enterprise applications.

     (b)   What is the importance of stateless beans ?

     (c)   Elaborate the difference between remote and local ejbs.

     (d)   With suitable example explain many to many relationship in persistence.

     (e)   What are Schedulers ? Explain syntax and options to write schedules.

     (f)   Define SOAP and UDDI.

     (g)   Write a short note on EJB security model.

     (h)   :"REST is a Design Pattern" - Elaborate.

2   Do as directed :   **14**

     (a)   Explain the lifecycle of stateless session bean. Discuss various life cycle events of EJB.

(b) Develop a remote business component which fetches the recent cricket scores from the database between 10th April to 14th April at every 5 minutes but not between 1 to 2 P.M. A web application should display the recent scores. Use EJB and JSF.

3 Do as directed : **14**

(a) Explain the producer consumer relationship and types of messages in Java Messaging Services. Explain how a asynchronous bean can use the messages in JMS. Write a Web application to send a Topic message to JMS server.

(b) Explain the working of Persistence Context. Write a logic to add the data in one to many and many to many relationship.

OR

(b) Explain various methods of entity manager.

4 Do as directed : **14**

(a) Write a detailed note on various mechanisms of webservice security.

OR

(a) Explain SAML and STS security mechanism in detail.

(b) What are web services ? Explain the structure of WSDL and working of web services in enterprise applications.

5 Do as directed : **14**

(a) A social network sites store customer information. Every customer can make friends on request. The target person can either accept or deny the request. On acceptance the person will be added in the friend list and is displayed on customers page. Write business logic to perform all database operations and a front end to interact with the business logic with web services.

(b) With suitable example describe the working of REST. Write steps to use a ready made REST service.

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