10CS/IS753

Seventh Semester B.E. Degree Examination, Dec.2016/Jan.2017
JAVA and J2EE

Time: 3 hrs.   Max. Marks:100

Note: *Answer FIVE full questions, selecting*
at least TWO questions from each part.

PART – A

1 a. List and explain JAVA buzzwords.   (05 Marks)
   b. Explain how arrays are defined and used in JAVA with an example.   (05 Marks)
   c. List and explain access specifiers in java and their scope.   (06 Marks)
   d. Explain : i) >>>   ii) foreach.   (04 Marks)

2 a. What are command line arguments? While a Java program to read a number as command
      line argument and check whether it is prime or not.   (04 Marks)
   b. What is an exception? Explain the usage of throw keyword with an example.   (06 Marks)
   c. What is an applet? Write an applet program to display the message "A SIMPLE APPLET".
                                                                                 (06 Marks)
   d. Distinguish between method overloading and method overriding.   (04 Marks)

3 a. What is thread? Explain two ways of creating a thread in JAVA with example. (10 Marks)
   b. What is the need of synchronization? Explain with an example how synchronization is
      implemented in JAVA.   (06 Marks)
   c. What is delegation event model?   (04 Marks)

4 a. Describe the different types of swing buttons.   (10 Marks)
   b. Write the steps to create J-table. Write a program to create a table with column heading
      "Name, USN and age". Insert at least 5 records into the table and display. (10 Marks)

PART – B

5 a. Describe the various steps of JDBC with code snippets.   (08 Marks)
   b. What are transactions? Write a Java program to execute database transaction. (08 Marks)
   c. Explain: i) Prepared statement   ii) Callable statement.   (04 Marks)

6 a. Explain the servlet life cycle with example   (06 Marks)
   b. Define a cookie. Write a servlet program to add a cookie.   (07 Marks)
   c. Write a program to describe parameter reading using servlets.   (07 Marks)

7 a. Define JSP. Explain different types of JSP tags.   (10 Marks)
   b. What is RMI? Explain the server side and client side methods.   (10 Marks)

8   Write short notes on :
   a. EJB transaction attributes   (05 Marks)
   b. Session java bean   (05 Marks)
   c. Stateless and stateful session bean   (05 Marks)
   d. Message driven bean.   (05 Marks)

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Seventh Semester B.E. Degree Examination, Dec.2015/Jan.2016

Java and J2EE

Time: 3 hrs.   Max. Marks:100

Note: *Answer FIVE full questions, selecting*
at least TWO questions from each part.

PART – A

1 a. List and explain the java buzzwords.   **(08 Marks)**
   b. Explain with example
       i) >>>   ii) short circuit logical operator   iii) for each.   **(06 Marks)**
   c. Explain different access specifiers in java with examples.   **(06 Marks)**

2 a. What is meant by instance variable hiding? How to overcome it?   **(04 Marks)**
   b. What is exception? Explain the different exception handling mechanisms with an example.
                                                                                    (08 Marks)
   c. What is an applet? Write an applet program to display the message "WELCOME TO VTU
       BELGAUM". Set the background color to green and foreground to red.   **(08 Marks)**

3 a. What is thread? Explain two ways of creating thread.   **(08 Marks)**
   b. What is synchronization? Explain the producer consumer problem with a program. **(08 Marks)**
   c. Explain KeyEvent and MouseEvent class.   **(04 Marks)**

4 a. Create swing applet that has two buttons named beta and gamma. When either of the buttons
       pressed it should display " beta was pressed" and "gamma was pressed" respectively.
                                                                                    (06 Marks)
   b. Explain different types of swing buttons with syntax.   **(08 Marks)**
   c. Write a program to create table with headings " fname, lname, age" and insert at least 5
       records.   **(06 Marks)**

PART – B

5 a. Describe the various steps of JDBC process with suitable exception handling blocks.
                                                                                    (10 Marks)
   b. Explain the different types of statement object, give example for each.   **(10 Marks)**

6 a. Explain the different stages in the life cycle of servlet.   **(06 Marks)**
   b. Write a short note on HttpRequest and HttpResponse.   **(06 Marks)**
   c. What is cookie? List out the methods defined by cookie. Write a program to add a cookie.
                                                                                    (08 Marks)

7 a. What is JSP? Explain different types of JSP tags by taking suitable examples. **(10 Marks)**
   b. What is RMI? Describe with code snippet RMI at client and server side.   **(10 Marks)**

8 a. What is deployment descriptor? List the deployment descriptor for EJB2.0.   **(06 Marks)**

   b. Explain i) JAR File ii) Stateless bean versus statefull bean.   **(06 Marks)**
   c. Explain with a skeleton entity java bean.   **(08 Marks)**

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Seventh Semester B.E. Degree Examination, Dec.2014/Jan.2015
JAVA and J2EE

Time: 3 hrs.   Max. Marks:100

Note: *Answer FIVE full questions, selecting*
atleast TWO questions from each part.

PART – A

1   a. How the arrays are defined in java? Explain with an example.   **(05 Marks)**
     b. Differentiate the usage of access specifiers in java and their scope.   **(05 Marks)**
     c. Write and demonstrate a Java program to initialize and display different types of integers and floating point variables.   **(05 Marks)**
     d. Define type casting. Explain with an example.   **(05 Marks)**

2   a. Define an applet. Explain the skeleton of an applet.   **(08 Marks)**
     b. Write a Java program to perform the addition of two complex numbers by using the method add( ) by passing object as a parameter and display result using method display( ). Initialize the real and imaginary values of the complex number using parameter constructor. **(08 Marks)**
     c. Write the syntax of try and catch block to handle multiple exceptions, explain.   **(04 Marks)**

3   a. What is synchronization? Explain the role of synchronization with producer and consumer problem.   **(10 Marks)**
     b. Describe the thread priority. How to assign and get the thread priority?   **(05 Marks)**
     c. Explain any two event listener interfaces with its function or methods.   **(05 Marks)**

4   a. Write a swing applet program to demonstrate with two Jbuttons named India and Srilanka. When either of buttons pressed, it should display respective label with its icon. Refer the image icons "India·gif" and "Srilanka·gif". Set the initial label is "press the button". **(10 Marks)**
     b. Explain the JScrollPane with an example.   **(05 Marks)**
     c. Explain the IComboBox with an example.   **(05 Marks)**

PART – B

5   a. Describe the steps of JDBC process with suitable exception handling blocks.   **(10 Marks)**
     b. What is ResultSet? How to set scroll options to ResultSet? Explain.   **(05 Marks)**
     c. Write a note on Dababase metadata object methods and ResultSet metadata object methods. **(05 Marks)**

6   a. Describe the simple html file to pass the parameter to servlet and display the parameter values accepted by servlet.   **(08 Marks)**
     b. Explain the servlet life cycle with example.   **(06 Marks)**
     c. Define a cookie. Explain how the cookies are created using Java servlet.   **(06 Marks)**

7   a. List and describe the different types of JSP tags.   **(06 Marks)**
     b. What is session? Explain how to create session using JSP.   **(06 Marks)**
     c. Briefly explain how remote method invocation works in Java.   **(08 Marks)**

8   Write short notes on :
     a. Deployment descriptors
     b. JAR file
     c. Message driven bean
     d. Entity Java bean.   **(20 Marks)**

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10CS/IS753

Seventh Semester B.E. Degree Examination, Dec. 2013/Jan. 2014
JAVA and J2EE

Time: 3 hrs.

Max. Marks:100

**Note: *Answer FIVE full questions, selecting
atleast TWO questions from each part.***

PART – A

1   a. Explain how JAVA is robust and architecture neutral. (08 Marks)
     b. Write a note on JAVA environment. (06 Marks)
     c. Discuss three OOP principles. (06 Marks)

2   a. Distinguish between method overloading and overriding in JAVA, with suitable examples. (06 Marks)
     b. What is super? Explain the use of super with suitable example. (06 Marks)
     c. Write a JAVA program to implement stack operations. (08 Marks)

3   a. What is thread? Explain two ways of creating a thread in JAVA with example. (10 Marks)
     b. What is the need of synchronization? Explain with an example how synchronization is implemented in JAVA. (10 Marks)

4   a. Name and explain the different types of swing buttons with syntax. (10 Marks)
     b. Write the steps to create J-table. Write a program to create a table with column heading "fname, lname, age" and insert atleast 5 records in the table and display. (10 Marks)

PART – B

5   a. Give an example and explain J2EE multitier architecture. (06 Marks)
     b. Explain the different types of statement object. Give example for each. (06 Marks)
     c. Write a program to execute a database transaction. (08 Marks)

6   a. Explain the life cycle of servlets. (05 Marks)
     b. List and explain core classes and interfaces that are provided in javax.servlet package. (10 Marks)
     c. Write a short note on HTTP request and response. (05 Marks)

7   a. What is JSP tag? Explain the different types of JSP tags. (10 Marks)
     b. What is a cookie? Explain the working of cookie in JAVA with code snippets. (10 Marks)

8   a. Explain the functions of EJB transaction attributes. Write a program to set the transaction attribute. (10 Marks)
     b. What is entity JAVA bean? Explain the CMP entity bean. Give the skeleton of an entity bean. (10 Marks)

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