TCS-505   1084

Odd Semester Examination, 2017-18

B.TECH. (SEMESTER-V)

ADVANCED JAVA PROGRAMMING

Time: 03:00 Hours   Max Marks : 100

Note : Attempt all questions.

1.   Attempt any four. All questions carry equal marks.   (5×4)

   (a)   Explain Introspector, Property Descriptor, Event Descriptor & Method Descriptor in Brief ?

   (b)   Explain each step with proper syntax. Write a programme to establish the connection with the data having field name, father name, and mother name, roll no & marks. Read the contents of this database & display those contents whose marks are greater than 75%?

   (c)   Write a JSP program to keep a page counter how many times it has been visited?

   (d)   What are Beans? Explain bean writing process in detail with the help of an example?

   (e)   5 Write Short Notes on :

      (i)   Struts Framework

      (ii)   LDAP & metadata

                                                                          (5×4)

2.   Attempt any four. All questions carry equal marks.

   (a)   List the interfaces & classes contained in the pack javax.servlet.http package. Give their description also?

   (b)   Describe session tracking for JSP pages if the browser has disabled cookies.

   (c)   Create a JDBC application to Insert User Registration details like

   (d)   Registration No, Username, Password, Email

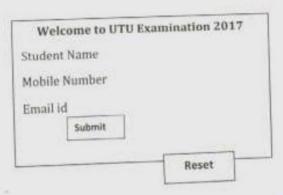   (e)   Into User Registration table. Also perform   [P.T.O.]

TCS-505/1520   (1)

(f)   Update and delete operations on specified rows.

(g)   Design a Servlet which accepts Roll No, Name, and Year sent from a HTML document (student.html) and display them on screen. Also give code for student.html document

(h)   Write a servlet program to insert five values coming from JSP page in database?

3.   Attempt **any four**. All questions carry equal marks   (5×4)

(a)   What is JDBC? Explain the different drivers in JDBC. Explain the steps of java to database communication in details ?

(b)   Create a webpage and check all filed are fill or not using Java Script

> **Welcome to UTU Examination 2017**
>
> Student Name
>
> Mobile Number
>
> Email id
>
>   Submit
>
>   Reset

(c)   Write command for setting classpath from command prompt while connecting JDBC with notepad ?

(d)   Design an abstract class Record consisting of three data types, of string type name, age and Address and create two function get Data() to get user input from input screen and put Output() to display the details extended by Show Class 5. Write a program to input a number from user into a text filed and calculate the square of number and display it using JSP

(10×2=20)

4.   Attempt **any two**. All questions carry equal marks.

(a)   Create a try block that is likely to generate three types of exception & then incorporate necessary blocks to catch & handle them appropriately?

(b)   What are the types of statements in JDBC? What are the differences/key features between the 3 different types of statements in JDBC?

(2)

TCS-505/1520

(c) What is thread? Write a simple real life application program in java to illustrate multithreading?

5. Attempt **any two**. All questions carry equal marks. (10×2)

(a) Draw J2EE multitiered architecture. Also explain the traditional client /Server model of J2EE?

(b) (i) What is tomcat Server? List down the web server names for JSP. Write down the steps to install it in Windows OS.

(ii) Write a function to create a database connection & retrieve all the records from a table that has name = "ANKU"?

(c) Explain :

(i) Multicast Socket

(ii) Server and Client Communication using Java

****