DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY B.TECH - SEMESTER - VI, IT

SUBJECT: [IT 617] ADVANCED JAVA TECHNOLOGY

Examination : Second Sessional Seat No. Date 17/02/2017 Day : Saturday Time : 12:00 to 01:15 PM Max. Marks INSTRUCTIONS: Figures to the right indicate maximum marks for that question. The symbols used carry their usual meanings. Assume suitable data, if required & mention them clearly. Draw neat sketches wherever necessary. Do as directed. [12] (a) Explain the code snippet below: [2] <jsp:useBean id="myBean" type="com.Class1" class="com.Class2"> <i,sp:setProperty name="myBean" property="*"/> </jsp:viseBean> (b) Explain jsp lifecycle in detail with its api. (c) List out advantages of MVC Model 2 Architecture? 121 Select the appropriate option for the following questions. [6] 1. An RMI Server is responsible for 2. RMI uses which protocol on top of TCP/IP (a) Creating an instance of the remote Obj. (a) Java Remote Method Protocol (JRMP) (b) Exporting the remote object (b) Internet Inter-ORB Protocol (IIOP) (c) Binding the instance of the remote object (c) Jinni Extensible Remote Invocation to the RMI registry (d) All mentioned above (d) All mentioned above 3. In RMI which layer defines and supports 4. Which will be output of following code the invocation semantics of the RMI when the query string connection and this layer maintains the firstname=John&lastname=Doe? 'session during the method call? (a) The Stub & Skeleton Layer (a) John Doe (b) The Application Layer (b) John Doe Doe (c) The Remote Reference Layer (c) John null Doe (d) The Transport Layer (d) John null doe doe 5. Which of the following is not a valid 6. Which Custom tag is used to dynamically implicit object in EL? add the contents from the provided URL to the current page at request time? (a) header (a) <c:content> (b) header Values (b) <c:include> (c) params (c) <c:import> (d) paramValues (d) None of the above Q.2 Attempt Any Two from the following questions. [12] (a) Create the Java Bean named ResultBean with attributes like mark1, mark2, mark4 and [6] mark5 of five subjects. Create jsp page that requests user for five subject marks. The JSP page should create ResultBean instance and set values to the bean instance. The JSP page will get marks from ResultBean. It will calculate and display total marks and percentage in some another jsp page. Write a program with the use of <jsp:useBean> standard action. (b) What is JSP JSTL? Write a code using JSTL sql tag to search students data from student's ID, [6] and display searched data from database, if searched ID not found than, application should handle it using exception handling mechanism of page directive. (c) 1. Explain JSP implicit objects. 2. Write a JSP code, with the use of JSTL core tag, in which you have to take a number and user [4] name from a user. And check the following condition. 1. Print given number is even or not, and display result on the same jsp page. Attempt ALL from the following questions. [12] Q.3 Create a RMI based client-server application. The server provides functionality of interest [8] calculator to client through RMI mechanism. The client sends principle, time and rate of interest to server. Server calculates the interest amount and the total amount to be paid to clear the complete debt. Give L'afinition of interface, implementation class, server class, and client class. (b) Compare different approaches of session tracking. Write Java code to send cookies from servlet [4] to client browser. How session information is handled if cookie is disable in client browser? [12] Q.3 Attempt ALL from tine following questions. List-out the situations where JNI can be used? With an example, explain all the steps need to be [8] executed while working on native methods? Differentiate between two approaches of Response Redirection: Response.sendRedirect() and RequestDispatcher.forward().