

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-3 EXAMINATION- 2021

B.Tech (IT) Semester V

COURSE CODE: 18B11CI511

MAX. MARKS: 35

COURSE NAME: Advanced Java

COURSE CREDITS: 3

MAX. TIME: 2 Hours

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. Create a Java Server Page (JSP) that uses PreparedStatement interface to insert any three records into the table Emp {empid varchar2, ename varchar2}.
[5 marks]
2. Write a Java Bean class **Employee** with its properties as **empid** and **ename**. Make use of useBean, setProperty and getProperty tags in a JSP file to instantiate the bean class, and set and retrieve the values into/ from the properties.
[6 marks]
3. Attempt the following on the basis of the table Emp{empid VARCHAR, name VARCHAR, age NUMBER, city VARCHAR}
 - a) Define a stored function that returns details of all those employees who live in the city "xyz".
 - b) Define a Servlet to call this stored function using JDBC. [2.5+4.5=7 marks]
4. Implement an RMI based application. The application consists of a remote interface with a method to convert US dollars into Indian Rupees (assume that 1\$ = 70 Rupees). Define a Server class that implement this interface and a Client class that invokes the method of the Server class.
[6 marks]
5. Write a Java socket program where client sends a text message to the server. The server receives and prints this message.
[4 marks]
6. Create an EJB based web-application where the users can send request to a Servlet so as to find the addition of two numbers. The Servlet in turn calls the method **addBean(int, int)** defined in the EJB component class.
[7 marks]