

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-III EXAMINATION- 2022

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. Write a swing program to create a tabbed pane with two tabs as *Cities* and *Flavors*. *Cities* tab consists of four push buttons labeled as "New York", "London", "New Delhi" and "Tokyo". *Flavors* tab consists of a ComboBox with three items as: "Vanilla", "Chocolate", and "Strawberry". (CO-1) [6 marks]
2. Write a JSP program using Java Bean to register the user on a web-site. The registration details of the user are kept in *USER* table with attributes as *user\_id varchar2*, *username varchar2*, and *email\_id varchar2*. (CO-2, CO-4) [6 marks]
3. Write a Java Socket program where a client sends a message to the server. The server receives and prints this message. (CO-5) [5 marks]
4. Write a distributed application using RMI where a user running an application on client's JVM invokes a remote method *String getName(String)*, running on the server's JVM. After invoking this method, the name entered by the user is displayed on the client's application (CO-5). [6 marks]
5. Create an EJB-based web application where the users can send the request to a Servlet to find the addition of two numbers. The Servlet then calls the method *addBean(int, int)* defined in the EJB component class. (CO-6) [6 marks]
6. Differentiate between the following terms: [3×2 = 6 marks]
  - a. Marshalling and Unmarshalling in RMI (CO-5)
  - b. *Locate.createRegistry()* and *Locate.getRegistry()* (CO-5)
  - c. Servlets and JSP (CO-2)