COURSE CODE (CREDITS): 18B11CI511 (3)   MAX. MARKS: 15

COURSE NAME: Advanced Java

COURSE INSTRUCTORS: Dr. Amol Vasudeva   MAX. TIME: 1 Hour

Note:

(a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q1. Design a web application where user enters **username** and **password** through an HTML form. The **username** and **password** are sent to the **MyServlet.** If the **username** and **password** match with **David** and **Gower**, respectively, then MyServlet displays a message "**Welcome David**" on the client's machine. If the username or password does not match, MyServlet displays an error message: "**Sorry! wrong username or password** ".   [4 marks]

Q2. Write a 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, Tokyo**, and **New Delhi**. Flavors tab consist of a combo box with three items as **Vanilla, Chocolate**, and **Strawberry. (CO-1)**   [4 marks]

Q3. Create a tree structure as shown in **Fig. 1** and then insert this tree structure inside a **JScrollPane**. Now, insert the **JScrollPane** at the center of the **BorderLayout** (that has been set inside a **JFrame**). When the user clicks on any of the tree node, its path should be displayed inside **JTextField** (in the south of the BorderLayout). For example, after clicking on A_2 node, the path is displayed as **[Root, A, A_2]. (CO-1)**   [4 marks]
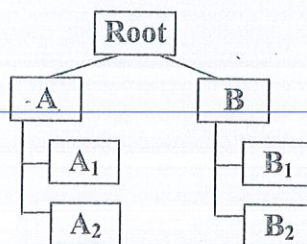

Fig. 1 Tree Structure

Q4. Describe the following terms in 4-5 lines.   (CO-2)   [3 marks]
- Adapter Classes
- Deployment Descriptor
- Java Web Container