

**UNIVERSITY OF MUMBAI**

T.Y.B.Sc.( INFORMATION TECHNOLOGY) (Semester– V) (Practical) EXAMINATION  
OCTOBER 2014

**ADVANCED JAVA**

Seat No. : \_\_\_\_\_

**Max. Marks: 50**

|    |   |           |
|----|---|-----------|
| 1. | Write a java program using AWT to present a set of choices for a user to select Stationary products and Display the price of Product after Selection from the list. | <b>20</b> |
| 2. | Create a JSF application to demonstrate the use of build – in validation.   | <b>20</b> |
| 3. | Viva  | <b>5</b>  |
| 4. | Journal   | <b>5</b>  |

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OCTOBER 2014

**ADVANCED JAVA**

Seat No. : \_\_\_\_\_

**Max. Marks: 50**

|    |   |           |
|----|---|-----------|
| 1. | Write a java program using Swing to demonstrate typical Editable Table, describing employee details for a software company. | <b>20</b> |
| 2. | Develop a JSP application to allow the user to modify the registration details after the valid authentication.              | <b>20</b> |
| 3. | Viva  | <b>5</b>  |
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|    |   |           |
|----|---|-----------|
| 1. | Write a Java Program using Swing to dynamically add Components in the List.                                 | <b>20</b> |
| 2. | Write a simple JSP application to demonstrate the use of implicit object (at least 3 methods of 4 objects). | <b>20</b> |
| 3. | Viva  | <b>5</b>  |
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**Max. Marks: 50**

|    |  |           |
|----|--|-----------|
| 1. | Write a Java Program using Swing to demonstrate various Features using SimpleAttributeSet Class. | <b>20</b> |
| 2. | Develop simple application to demonstrate accessing Session Bean using EJB.                      | <b>20</b> |
| 3. | Viva   | <b>5</b>  |
| 4. | Journal  | <b>5</b>  |

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**Max. Marks: 50**

|    |   |           |
|----|---|-----------|
| 1. | Write a Java Program using Swing to demonstrate creation of File and Edit Menu with appropriate submenus. | <b>20</b> |
| 2. | Developing a hibernate application to store feedback of website visitor.                                  | <b>20</b> |
| 3. | Viva  | <b>5</b>  |
| 4. | Journal   | <b>5</b>  |

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**Max. Marks: 50**

|    |  |           |
|----|--|-----------|
| 1. | Write a Java Program using Swing to authenticate user's username and password. | <b>20</b> |
| 2. | Create the Email validator example using struts.                               | <b>20</b> |
| 3. | Viva   | <b>5</b>  |
| 4. | Journal  | <b>5</b>  |

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|    |  |           |
|----|--|-----------|
| 1. | Implement a swing program to demonstrate use JTree with at least 3 Tree Nodes and sub nodes. | <b>20</b> |
| 2. | Develop a JSP application to authenticate user login with database.                          | <b>20</b> |
| 3. | Viva   | <b>5</b>  |
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**Max. Marks: 50**

|    |  |           |
|----|--|-----------|
| 1. | Implement a swing program to demonstrate use of JList with changeable choices. | <b>20</b> |
| 2. | Develop servlet application to demonstrate basic calculator.                   | <b>20</b> |
| 3. | Viva   | <b>5</b>  |
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**Max. Marks: 50**

|    |  |           |
|----|--|-----------|
| 1. | Display the software loading process by using of Progress Bar.   | <b>20</b> |
| 2. | Develop servlet application for accepting user registration details and displaying it on another page (At least 6 Values). | <b>20</b> |
| 3. | Viva   | <b>5</b>  |
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| 1. | Implement a swing program to demonstrate use of JColorChooser.           | <b>20</b> |
| 2. | Developing a hibernate application to store feedback of website visitor. | <b>20</b> |
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| 1. | Write a java program using Swing to demonstrate typical Editable Table, describing employee details for a software company. | <b>20</b> |
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|    |   |           |
|----|---|-----------|
| 1. | Write a Java Program using Swing to demonstrate creation and use of Popup Menu.                                 | <b>20</b> |
| 2. | Develop Servlet Application of Basic Calculator (+,-,*, /, %) using ServletInputStream and ServletOutputStream. | <b>20</b> |
| 3. | Viva  | <b>5</b>  |
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|    |  |           |
|----|--|-----------|
| 1. | Write a java program using Split pane to demonstrate a screen divided in two parts, one part contains the names of Planets and another Displays the image of planet.<br>When user selects the planet name form Left screen, appropriate image of planet displayed in right screen. | <b>20</b> |
| 2. | Create a JSF application to demonstrate the use of build – in validation.  | <b>20</b> |
| 3. | Viva   | <b>5</b>  |
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|    |   |           |
|----|---|-----------|
| 1. | Implement a swing program to demonstrate use of menu. Create at least 2 menus and submenus. | <b>20</b> |
| 2. | Create Simple Email Validator using Struts.   | <b>20</b> |
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| 1.              | Develop a web application using Java Servlets, to provide a set of question [5 Questions minimum] to the user. Each question should have four options, from which the user should be able to selection only one. When the user clicks on button “Done”, call a servlet to compute and display the score of the user [number of correct and incorrect answers.]   | <b>20</b>       |       |       |    |        |    |     |    |        |   |           |    |           |
|-----------------|--|-----------------|-------|-------|----|--------|----|-----|----|--------|---|-----------|----|-----------|
| 2.              | Develop a GUI application using Java Swing API to present a set of stationary items (combo box) to the user. When the user clicks on a particular stationary item, display the price of the item.<br><table border="1" data-bbox="635 813 963 1077"><thead><tr><th>Stationary Item</th><th>Price</th></tr></thead><tbody><tr><td>Ruler</td><td>10</td></tr><tr><td>Pencil</td><td>12</td></tr><tr><td>Pen</td><td>20</td></tr><tr><td>Eraser</td><td>5</td></tr><tr><td>Note Book</td><td>32</td></tr></tbody></table> | Stationary Item | Price | Ruler | 10 | Pencil | 12 | Pen | 20 | Eraser | 5 | Note Book | 32 | <b>20</b> |
| Stationary Item | Price  |                 |       |       |    |        |    |     |    |        |   |           |    |           |
| Ruler           | 10   |                 |       |       |    |        |    |     |    |        |   |           |    |           |
| Pencil          | 12   |                 |       |       |    |        |    |     |    |        |   |           |    |           |
| Pen             | 20   |                 |       |       |    |        |    |     |    |        |   |           |    |           |
| Eraser          | 5  |                 |       |       |    |        |    |     |    |        |   |           |    |           |
| Note Book       | 32   |                 |       |       |    |        |    |     |    |        |   |           |    |           |
| 3.              | Viva   | <b>5</b>        |       |       |    |        |    |     |    |        |   |           |    |           |
| 4.              | Journal  | <b>5</b>        |       |       |    |        |    |     |    |        |   |           |    |           |

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|    |   |           |
|----|---|-----------|
| 1. | Develop a web application to allow the user to enter two numbers and select an operation [ +,-,*,/ ] in an HTML file. When the user clicks “Calculate” button, call a servlet to compute the answer and display it to the user. | <b>20</b> |
| 2. | Develop a GUI application using Java Swing API to divide the screen horizontally, on one side display a list of planets. When the user clicks on a planet display the image of the planet in the other region                   | <b>20</b> |
| 3. | Viva  | <b>5</b>  |
| 4. | Journal   | <b>5</b>  |

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|    |   |           |
|----|---|-----------|
| 1. | Develop a web application using JSP to allow the user to login by entering the user id and the password, when the user clicks on “Login” button, call a JSP page to authenticate the login, if successful take the user to “welcome.html”, otherwise display “Login Failed”, and allow the user to re-login. [Login(userid: varchar, password:varchar)] | <b>20</b> |
| 2. | Develop a GUI application using Java Swing API to divide the screen vertically, on one side display a list of planets. When the user clicks on a planet display the image of the planet in the other region.  | <b>20</b> |
| 3. | Viva  | <b>5</b>  |
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| 1.              | Develop a web application using JSP to allow the user to register via an HTML page. When the user clicks on button “Register” call a JSP page to add the entered details to the database using JDBC API. [Registration(fname:varchar, lname:varchar, email:varchar, userid: varchar, password:varchar)]  | <b>20</b>       |       |         |    |      |    |      |    |            |   |             |   |           |
|-----------------|--|-----------------|-------|---------|----|------|----|------|----|------------|---|-------------|---|-----------|
| 2.              | Develop a GUI application using Java Swing API to present a set of stationary items (list) to the user. When the user clicks on a particular stationary item, display the price of the item.<br><table border="1" data-bbox="608 1682 987 1984"><thead><tr><th>Stationary Item</th><th>Price</th></tr></thead><tbody><tr><td>Stapler</td><td>50</td></tr><tr><td>Glue</td><td>10</td></tr><tr><td>File</td><td>25</td></tr><tr><td>Protractor</td><td>8</td></tr><tr><td>Chart Paper</td><td>6</td></tr></tbody></table> | Stationary Item | Price | Stapler | 50 | Glue | 10 | File | 25 | Protractor | 8 | Chart Paper | 6 | <b>20</b> |
| Stationary Item | Price  |                 |       |         |    |      |    |      |    |            |   |             |   |           |
| Stapler         | 50   |                 |       |         |    |      |    |      |    |            |   |             |   |           |
| Glue            | 10   |                 |       |         |    |      |    |      |    |            |   |             |   |           |
| File            | 25   |                 |       |         |    |      |    |      |    |            |   |             |   |           |
| Protractor      | 8  |                 |       |         |    |      |    |      |    |            |   |             |   |           |
| Chart Paper     | 6  |                 |       |         |    |      |    |      |    |            |   |             |   |           |
| 3.              | Viva   | <b>5</b>        |       |         |    |      |    |      |    |            |   |             |   |           |
| 4.              | Journal  | <b>5</b>        |       |         |    |      |    |      |    |            |   |             |   |           |

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|    |  |           |
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| 1. | Develop a web application to allow the user to enter inventory details [Product name, Product Price and Quantity]. When the user clicks on button “Store”, call a bean to add the inventory details into the database using JDBC API. Display the appropriate message. | <b>20</b> |
| 2. | Develop a Java GUI application using Java Swing API to display employee details [First Name, Last Name, DOB, Position, Qualification, Experience] in a tabular format.   | <b>20</b> |
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|    |  |           |
|----|--|-----------|
| 1. | Use RequestDispatcher in the following example.<br>Design a form to accept username and password from user. If password is equal to ‘admin’ then the control should go to Welcome Servlet which displays ‘Hello’ with the username entered. If password is not equal to ‘admin’ then control should go to Error Servlet which displays ‘Error in Login’. | <b>20</b> |
| 2. | Create a ‘Click’ button. When clicked on this button a color dialog box should be displayed to choose colors from it. Whichever color is selected by user it should get applied as the background color of the panel.  | <b>20</b> |
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|    |   |           |
|----|---|-----------|
| 1. | Create 3 tabs. First tab should be for ‘Soups and Starters’ which displays the soup name, starter name and order button. Second tab should be for ‘Main Course’ which shows the main course for the day and quantity to be entered by user with an order button. Third tab should be for ‘Desserts’ which consists of a combo box displaying flavors of ice cream in combo box.<br><br>Add a button onto frame which removes the tab you want to remove. When clicked on ‘Remove’ button input dialog should be displayed asking the tab number you want to remove. | <b>20</b> |
| 2. | Write a JSP to accept eno, ename and salary. Insert these records in emp. (Create the emp table with these three fields)  | <b>20</b> |
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|    |   |           |
|----|---|-----------|
| 1. | Write a JSP that takes login details from the user and forward the request to ‘login.jsp’ for ‘Successful login’ message if username and password is equal to admin otherwise display an error message ‘Access Denied’. | <b>20</b> |
| 2. | Write EJB that calculates simple interest and compound interest for principal, number of years and rate of interest.  | <b>20</b> |
| 3. | Viva  | <b>5</b>  |
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Seat No. : \_\_\_\_\_

**Max. Marks: 50**

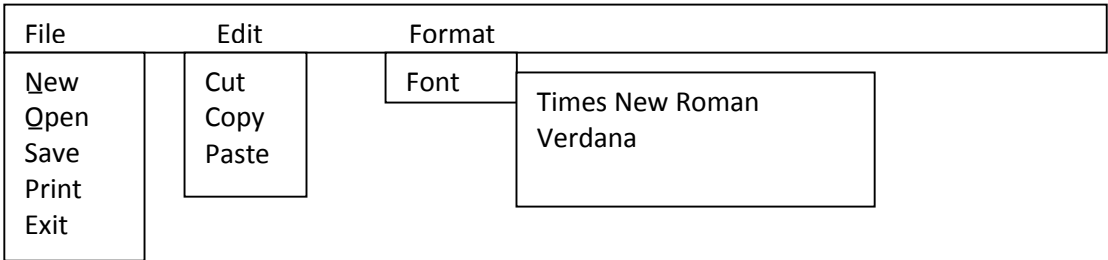
|    |   |           |
|----|---|-----------|
| 1. | Create a button 'Start' and a progress bar to show the progress percentage. When clicked on 'Start' button the progress bar should start progressing and the user shouldn't be able to click on 'Start' button when progress bar is in progress. The string 'Downloading is in process...' should be displayed when progress bar is progressing. After progress is completed a string should be displayed 'Download Completed'. | <b>20</b> |
| 2. | Develop servlet application of basic calculator.  | <b>20</b> |
| 3. | Viva  | <b>5</b>  |
| 4. | Journal   | <b>5</b>  |

**UNIVERSITY OF MUMBAI**

T.Y.B.Sc.( INFORMATION TECHNOLOGY) (Semester– V) (Practical) EXAMINATION  
OCTOBER 2014  
**ADVANCED JAVA**

Seat No. : \_\_\_\_\_

**Max. Marks: 50**

|    |   |           |
|----|---|-----------|
| 1. | Create a simple menu by using swing components.<br> <p>When Exit is selected then confirm dialog should be displayed with confirmation message 'Are you sure to close'. If clicked on 'Yes' button then window should get closed.</p> | <b>40</b> |
| 2. | Viva  | <b>5</b>  |
| 3. | Journal   | <b>5</b>  |