

# Mumbai University

## Question Paper



ADVANCED JAVA

B.Sc.IT: Semester – V

April – 2014

Time: 2 ½ Hours

Total Marks: 60

- N.B.:** (1) All Question are Compulsory.  
 (2) Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.  
 (3) Answer To The Same Question Must Be Written Together.  
 (4) Number To The Right Indicates Marks.  
 (5) Draw Neat Labeled Diagrams Wherever Necessary.  
 (6) Use of Non – Programmable Calculator is allowed.

**Q.1 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) What are Adapter Classes? What are Inner Classes? Explain with examples. (5)  
 (B) Explain the Java Event Delegation Model. (5)  
 (C) What are the different types of layout in Java? Explain GridLayout. (5)  
 (D) What are the different operations that can be carried out on Frame Window? (5)

**Q.2 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) With the help of an example explain JColorChooser Component. (5)  
 (B) Compare and Contrast AWT and Swing. (5)  
 (C) Explain JScrollPane with Example. (5)  
 (D) How are Menus created in Java? What are the classes used for creating Menus? Explain with example. (5)

**Q.3 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) What are Servlets? What are the advantages and disadvantages of JSP? (5)  
 (B) Explain the Life Cycle of Servlet. (5)  
 (C) Explain the following Elements of the web.xml file of servlet. (5)  
 (i) `<servlet>`  
 (ii) `<servlet-mapping>`  
 (iii) `<session-config>`  
 (iv) `<welcome-file-list>`  
 (v) `<web-app>`  
 (D) Write a Servlet program to display sentence Welcome along with the name entered by the user through an HTML form. (5)

**Q.4 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) What is JSP? What are the Advantages and Disadvantages of JSP? (5)  
 (B) Write a JSP Code to print the details entered in the form on the Next Page. The details are entered in the HTML page are Name in textbox, UserName in textbox, Date of Birth in textbox, Date of Joining in textbox, Gender in Radio Button. (5)  
 (C) Explain the Architecture of JDBC. (5)  
 (D) Write a JDBC program to insert five records in Customer table with fields CustomerNo, FirstName, LastName, Address, MobileNumber and Email. (5)

**Q.5 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) Explain the Architecture of Enterprise Java Beans. (5)  
 (B) What are the different types of Enterprise Java Beans? Explain. (5)  
 (C) Explain the Life Cycle of JSF. (5)  
 (D) What is Facelet? What are its features? (5)

[TURN OVER]

**Q.6 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) What is Object Relational Mapping? What are its advantages? (5)
- (B) Explain the Hibernate Framework. (5)
- (C) Explain the struts Framework. (5)
- (D) Explain web.xml and struts.xml files. (5)
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