Mumbai University
Question Paper

Advanced Java

B.Sc.IT: Semester – V
October – 2013
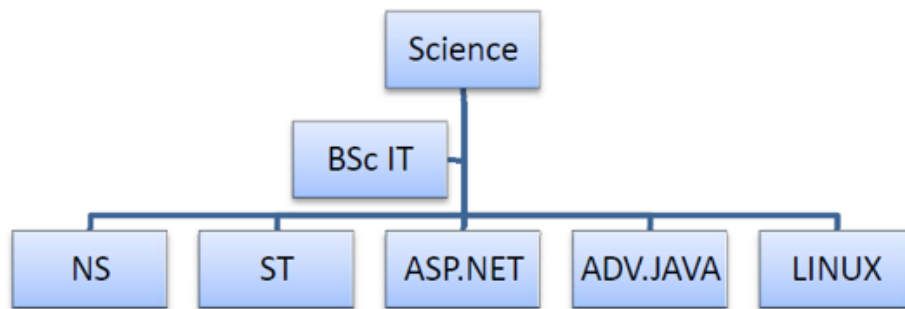
Time: 2 ½ Hours   **Total Marks:** 60

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) Write a short note on "Event Listeners". Explain the working with Code Specification.   **(5)**

(B) How does AWT create Radio Buttons? Explain with Syntax and Code Specification.   **(5)**

(C) What is the Default Layout of the Frame? Explain the same.   **(5)**

(D) Write a Java AWT Program that creates the following GUI (Consider the Window Closing Event).   **(5)**

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

(A) Explain the new features of JFC.   **(5)**

(B) How to denote the user about the Software Loading Process? Which component is facilitating the same? Explain with Code Specification.   **(5)**

(C) How do divide frame window in 2 parts? Explain with code specification.   **(5)**

(D) Write a Java Swing Program that creates the above mentioned Hierarchical Tree Data Structure.   **(5)**

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

(A) Explain the reasons why servlet prefer over CGI.   **(5)**

(B) Explain the methods that RequestDispatcher interface does consist of with the relevant Code Specification.   **(5)**

(C) Write a Servlet that prints the Sum of Square of n Integer Numbers.   **(5)**

(D) Explain the Life Cycle phases of Servlet.   **(5)**

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

(A) Explain the components of JDBC.   **(5)**

(B) Write an exhaustive note on "PreparedStatement". Attach Code Specification to support your answer.   **(5)**

(C) Enlist the Implicit objects of JSP. Explain any 4 of them in detail.   **(5)**

(D) Write a JSP that accepts user-login details and forward the result either "Access granted" OR "Access denied" to result.jsp.   **(5)**

[TURN OVER]

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

(A)   Enlist the lifecycle phases of JSF. Explain the following phases in detail.   **(5)**
- *Restore View*
- *Apply Request Values*
- *Update Model Values*
- *Render Response*

(B)   How does JSF application get execute? Explain.   **(5)**

(C)   Write a Session Bean Code Specification that Calculates Compound Interest. Assume the Principal, Terms and Rate of Interest is entered by the user and the input is passed through a Servlet.   **(5)**

(D)   Explain the advantages of EJB.   **(5)**

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

(A)   Explain the different roles of Action in Struts Framework.   **(5)**

(B)   What is Value-Stack? What are the different types of Objects that it can Hold Off? Explain their Accessing Strategy.   **(5)**

(C)   Explain the importance of Mapping and show the Creation of Mapping File in Hibernate Framework.   **(5)**

(D)   Explain the Architecture of Hibernate Framework in detail.   **(5)**