

SYCS/SEM III/EXT/Java Application Development

Time: 2½ hrs.

Marks:75

- Note:**
1. All questions are compulsory with internal choice.
 2. Draw neat diagrams wherever necessary.
 3. Figures to the right indicate full marks.

Q.1 Answer the following (any Four) (20)

- (a) What is a Constructor? Explain parameterized constructors with an example.
- (b) Difference between process and thread.
- (c) Which are different types of Inheritance? Explain Multilevel Inheritance.
- (d) What are Interfaces in java?
- (e) Explain Java try-catch block
- (f) Write a program to accept name, age and salary from the user and print the name, age and salary. (User Input must be accepted).

Q.2 Answer the following (any Four) (20)

- (a) Write a note on : HashMap Class?
- (b) What are the JDBC components?
- (c) What is Event Handling? What are the Steps Involved in Event Handling?
- (d) What are Event Listeners?
- (e) What are Swing – Buttons?
- (f) Write a program to create a HashSet, Add names, sort them and print the sorted set.

Q.3 Answer the following (any Four) (20)

- (a) Write a note on Servlet Life Cycle.
- (b) Explain Model – 1 JSP Architecture.
- (c) Explain the life cycle of JSP.
- (d) What are Servlets? Explain the working of servlets.
- (e) What is a Cookie? How does it work? Give any one advantage and disadvantage of cookies.
- (f) Write a program using servlet to calculate the product of two numbers from the user.

Q.4 Answer the following (any Five) (15)

- (a) What are Advantages of JSP over Servlet?
- (b) Write a note on HttpServlet Class.
- (c) What is the static keyword?
- (d) Explain access specifiers in java.
- (e) What is a collection in java?
- (f) What is Java List?

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