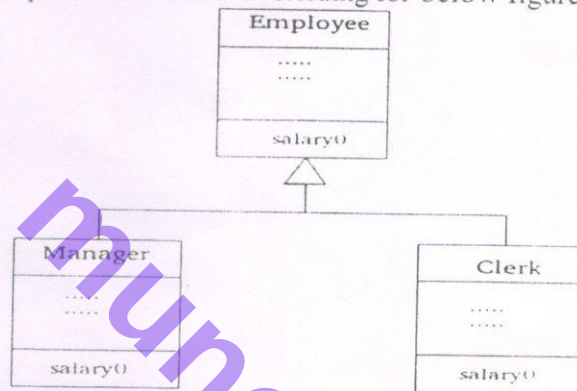


- N.B. 1) All questions are compulsory.
2) Figures to the right indicate marks.
3) Illustrations, in-depth answers and diagrams will be appreciated.
4) Mixing of sub-questions is not allowed.

Q.I Answer the following (Any four)

20 Mark

- Explain JVM in detail.
- Explain encapsulation with proper example.
- Explain different ways for Thread creation.
- Write a program to perform method overriding for below figure



- Explain the concept of try and catch with proper example.
- Write short n predefined packages.

Q.II Answer the following (Any four)

20 Mark

- Write a program to demonstrate Map interface methods.
- Explain in detail Java Print Service API.
- Explain JScrollbar with proper example.
- Write a program to construct a simple calculator using the JAVA Swings with minimum functionality.
- Explain JDBC Connectivity Model.
- Explain Event listener interfaces.

Q.III Answer the following (Any four)

20 Mark

- Explain ServletContext object with proper example.
- Write a Servlet that accepts a User Name from a HTML form and stores it as a session variable. Write another Servlet that returns the value of this session variable and displays it.
- Explain in detail JSP Standard Tag Libraries in detail.
- Explain in detail the JSP Life Cycle.
- Explain the concept of JSON.
- Differentiate JSON and XML.

Q.IV Answer the following.(Any three)

15 Mark

- a. Explain the concept of abstraction.
- b. Write a program to demonstrate multilevel inheritance.
- c. Explain ResultSet in detail.
- d. Explain JSON Schema in detail.
- e. Write a program to demonstrate a table in swing.
- f. Explain JSP architecture in detail.

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