

28/10/23

VCD/ SYCS SEMIII JAVA BASED APPLICATION DEVELOPMENT 2^{1/2} HRS 75 Marks

N.B. 1) All questions are compulsory.

2) Figures to the right indicate marks.

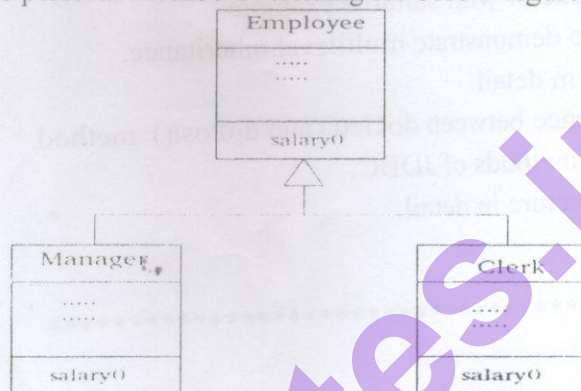
3) Illustrations, in-depth answers and diagrams will be appreciated.

4) Mixing of sub-questions is not allowed.

Q.I Answer the following (Any four)

20 Marks

- Explain features of Java.
- Explain encapsulation with proper example.
- Explain Thread lifecycle.
- Write a program to perform method overriding for below figure



- Explain the concept of try and catch with proper example.
- Write a short note on the access specifier.

Q.II Answer the following (Any four)

20 Marks

- Write a program to demonstrate Map interface methods.
- Write a short note on the 3-tier architecture of JDBC.
- Explain JTextArea with a proper example.
- Write a Java program for the following Output.



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- Explain 7 Steps of JDBC Connectivity Model.
- Explain Event listener interfaces.

Q.III Answer the following.(Any four)

20 Marks

- Write a short note on Servlet life cycle.
- Write a JSP program that prints the reverse of the given number and takes user input through HTML.
- Write a short note on the Scripting element.
- Explain in detail the JSP Life Cycle.
- Explain JSON Data type.
- Differentiate JSON and XML.

Q.IV Answer the following.(Any five)

15 Marks

- Explain the Constructor with suitable example.
- Write a program to demonstrate multilevel inheritance.
- Explain ResultSet in detail.
- Explain the difference between doGet() and doPost() method.
- Explain executing methods of JDBC.
- Explain JSP architecture in detail.
