

10/10/2022 (5)

**SYCS/SEM III/JAD/**

**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 static keyword and static method?
- (b) Explain Method Overloading. Define this keyword.
- (c) Which are different types of Inheritance? Explain Multilevel Inheritance.
- (d) Explain abstract class and abstract methods.
- (e) Difference between process and thread.
- (f) What is try-catch block?

**Q.2 Answer the following (any four) (20)**

- (a) What is java List? Give examples.
- (b) Write a note on : The HashSet Class .
- (c) What is JDBC?
- (d) What are the JDBC components?
- (e) Name and explain any 5 features of java foundation classes.
- (f) What are Swing – Buttons?

**Q.3 Answer the following (any four) (20)**

- (a) Different type of Servlets?
- (b) Write a note on HttpServlet Class.
- (c) Write a note on Servlet Life Cycle.
- (d) What are advantages of JSP?
- (e) Explain Model – 1 JSP Architecture.
- (f) Give Difference between JSP and Servlets.

**Q.4 Answer the following (any three) (15)**

- (a) What is predefined package? What are its advantages?
- (b) Write a note on Exception Handling.
- (c) What is an Event? Give and explain types of Events.
- (d) What is Map Interface? Give and explain useful methods of Map interface.
- (e) Explain Web Application with its architecture.
- (f) Explain the life cycle of JSP.

---X---

