

NOVEMBER/DECEMBER 2019

**MCS22 — ENTERPRISE JAVA
PROGRAMMING**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL the questions.

1. (a) List and describe the three kinds of validation strategies used in J2EE to validate the client input.

Or

- (b) How do you configure J2EE packages?

2. (a) Write a short note on JSP Session Objects.

Or

- (b) Write a JSP program to implement session management.

3. (a) Describe the life cycle of enterprise bean.

Or

- (b) Write a short note on EJB Interfaces with an example.

4. (a) List out the advantages of Struts in application.

Or

- (b) List out the merits of struts class and action classes.

5. (a) Write a short note on Hibernate O/R mapping.

Or

- (b) Enumerate the various components involved in the architecture of Hibernate.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

With neat diagram, describe J2EE Multi-Tier Architecture.

7. Write a JSP program to implement the Get and Post methods.
8. Explain in detail the Session bean and entity bean with an example.
9. Elucidate STRUT Architecture in detail.
10. Describe about the relationship between Java and databases.