

(3 Hours)

[Total Marks: 80]

N.B.: 1) Question No.1 is **compulsory**.2) Attempt any **three** from the remaining **five** questions.

1. Write a Short note on following (Attempt Any Four). (20)
 1. What is Configuration Metadata?
 2. Explain custom tags in JSP.
 3. Explain Data Access Object in detail.
 4. Define Circular Dependency with example.
 5. Explain Lambda Expression with suitable example.
 2. (a) What is Collections? Explain any two classes and it's all operations. (10)
(b) Explain JSP architecture with suitable diagram. (10)
 3. (a) What is Spring Boot? Explain Spring Boot RESTful Webservice with example (10)
(b) Explain Data Access operations with JdbcTemplate Class and RowMapper Interface. (10)
 4. (a) What is directives? Explain different types of directives in JSP. (10)
(b) Explain Spring Framework with suitable diagram. (10)
 5. (a) Explain Dependency Injection with Spring via Setter Injection with suitable example. (10)
(b) Explain Types of advices with suitable example. (10)
 6. (a) What is Wild card argument? Explain its types with suitable example. (10)
(b) What are actions in JSP? Explain any four actions in JSP with suitable example. (10)
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