

(Time: 3 Hours)

(Total Marks: 80)

- N.B.:** (1) Q. 1 is compulsory.  
(2) Attempt any three out of the remaining five.  
(3) Figures to the right indicate full marks.

- Q.1** A Explain Lambda expression with an example. 5  
B Differentiate between List, Set, and Map. 5  
C What is a dependency Injection in spring? 5  
D What is a generic method? How is it different from a generic class? 5
- Q.2** A What is a Collection Framework? Write a program to sort an array of string using ArrayList and Vector. 10  
B What are Custom Tags in JSP? What are the three types of directives available in JSP? 10
- Q.3** A Explain spring framework with its Core module and suitable diagram. 10  
B What is a POJO? Give an example of a POJO class used in a Spring application. 10
- Q.4** A Explain SpringBoot RESTful Web Services with an example 10  
B What are RDBMS operation classes in Spring JDBC? 10
- Q.5** A What is a wildcard in Java Generics? Differentiate between?, ? extends T, and? super T. 10  
B What are Generics in Java? Write a Java Program to demonstrate Generic Methods. 10
- Q.6** A What is Spring JDBC? Explain how to perform an INSERT operation using JdbcTemplate. 10  
B Explain types of advices in Aspect Oriented Programming. Explain After Advice with example. 10

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