

(3 Hours)

Total Marks: 80

N.B.:

80 Marks

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

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| Q.1 | A Explain Wild Cards and its Types. | 5 |
| | B Explain POJO Programming Model with an example. | 5 |
| | C What is a dependency Injection in spring. | 5 |
| | D Explain JSP Implicit Objects with an example. | 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? Explain with an example. | 10 |
| Q.3 | A Explain spring framework with its Core module and suitable diagram. | 10 |
| | B Defining Point Cut Designator & Annotations with examples. | 10 |
| Q.4 | A Explain SpringBoot RESTful Web Services with an example | 10 |
| | B Explain Data Access operations with JdbcTemplate Class. | 10 |
| Q.5 | A What is Lambda Expression? Explain syntax and use of Lambda expressions with a suitable program. | 10 |
| | B What are Generics in Java? Write a Java Program to demonstrate Generic Methods. | 10 |
| Q.6 | A Write a program to demonstrate RowMapper interface to fetch the records from the database. | 10 |
| | B Explain types of advices in Aspect Oriented Programming. | 10 |
