

1T00161 - M.C.A. (SEM-I) (Choice Based) ( Two Year Course) (R 2020-21) / 70622 - Advance Java  
QP CODE : 10033611  
DATE: 31/07/2023

**Total Marks: 80**

**(3 Hours)**

- N.B. :** 1) Question No.1 is **compulsory**.  
2) Attempt any **THREE** from the remaining questions.  
3) Figures to the right indicate full marks.

- Q1.** (a) Explain AspectOriented Programming with Spring. [5]  
(b) Explain Wild Cards and its types. [5]  
(c) What is POJO Programming model explain with suitable example? [5]  
(d) Explain Custom tags in JSP. [5]
- Q2.** (a) What is directives? Explain different types of directives in JSP. [10]  
(b) What is Collections? Explain any two interfaces with its all operations. [10]
- Q3.** (a) Explain Spring Boot RESTful WebService with example. [10]  
(b) Explain implicit objects in JSP. [10]
- Q4.** (a) What is Lambda Expression? Explain syntax and use of Lambda expressions with a suitable program. [10]  
(b) Explain Spring Framework with suitable diagram. [10]
- Q5.** (a) Explain Data Access operations with JdbcTemplate Class. [10]  
(b) Explain Dependency Injection with Spring via Constructor Injection with suitable example. [10]
- Q6.** (a) Define PointCut Designators by annotation with example. [10]  
(b) Explain JSP architecture with suitable diagram. [10]

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