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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