1T00161 - MCA (Sem-I) (R-2020-21) / 70622 - Advance Java QP CODE: 10021665

DATE: 28/02/2023.

(3 Hours)	.20	[Total I	<b>Marks: 80</b> ]
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## N.B.: (1) Question No.1 is Compulsory

Write a Short note on following (Attempt Any Four).

## (2) Attempt any Three Question between Question No.2 to 6

		Explain 9 JSP Implicit Objects.	10,00
		<ul><li>2. What is Constructor Injection? Implement with suitable example.</li><li>3. Difference between ArrayList and Vector and give an example on both of them?</li></ul>	
		<ul> <li>4. Explain Map interface and using HashMap print the elements in name-pair in forward and reverse direction.</li> <li>5. Explain Scripting tags in JSP with suitable syntax and example.</li> </ul>	
Q 2.	<b>A</b> )	Explain spring framework with its Core module and suitable diagram	[10]
	<b>B</b> )	What is Lambda Expression? Write code on it using Lambda expression as an Object.	[10]
Q 3.	<b>A</b> )	What is Circular Dependency Injection in Spring? Write the code on Circular Dependency using Annotations approach.	[10]
	<b>B</b> )	Explain Types of Wildcards with example.	[10]
Q 4.	<b>A</b> )	What is Java Bean Class? Write Java Bean class on counter increments and instantiate and display its value using JSP Standard action.	[10]
	B)	Explain session management in JSP with its types. And write code on Cookie management.	[10]
Q 5.	<b>A</b> )	Explain spring AOP in details and its advices.	[10]
	<b>B</b> )	What is Spring autowire injection and its types with explanation and syntax	[10]
Q 6.	<b>A</b> )	What is REST API web services? Explain with example	[10]
TOB!	<b>B</b> )	Explain Data Access operations with JdbcTemplate and Spring.	[10]

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Q 1.

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