JOSEPH ENGINEERING COLLEGE, MANGALURU

An Autonomous Institution Semester MCA Degree (Autonomous) Examinations April-2022

	USN:											21MCA303
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Duration: 3 Hrs Maximum Marks: 100

Advances in Java

Note:

- 1. **Part-A** is mandatory.
- 2. Answer any five full questions from **Part-B** choosing at least one from each module.

PART-A (Shall contain 2 to 4 Mark short answer type questions covering entire syllabus for 20% of the maximum Marks)							
Q.No.	Question	BL	CO	PO	Marks		
1	What is difference between Get and Post method?	1	1	2	2		
2	What is Session Tracking?	1	1	2	2		
3	What is JSP?	1	2	3	2		
4	List out the various scope values of JSP action.	1	2	3	2		
5	How can we handle the exceptions in JSP?	1	2	3	2		
6	What do you mean by JavaBeans?	1	2	3	2		
7	What is JDBC?	1	4	3	2		
8	What is prepared statements?	1	4	3	2		
9	When to use Enterprise Java Bean?	1	6	3	2		
10	What is EJB?	1	6	3	2		

PART-B

Q.No.		Question	BL	СО	PO	Marks		
		Module-1			1			
1	a)	Explain briefly servlet architecture and life cycle method	1	1	2	8		
	b)	Write a java servlet program which reads two parameters from a web page say value1 and value 2 which are the types of integers, and find the sum and product of the two values and return back the result in the web page	3	1	2	8		
OR								
2	a)	What are cookies? Write a java servlet program to using cookies to remember the user preference.	2	1	2	8		
	b)	Explain briefly any five methods of HttpServletRequest. Illustrate with simple program	2	1	2	8		
Module-2								
3	a)	Write a JSP program to perform arithmetic operation using scriptlet, declaration and expression tag	2	2	3	8		
	b)	Explain the need, benefits and advantages of JSP	1	2	3	8		
		OR						

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		Write a JSP Program to generate random numbers from							
4	a)	1 to 100.	2	2	3	8			
-	b)	Explain the different types of JSP elements	2	2	3	8			
	1/	Module-3							
		Illustrate JSP directive tag with example							
5	a)		2	2	3	8			
		Write a JSP Program to get student information							
	b)	through a HTML and create a JAVA Bean class,	2	5	3	8			
	0)	populate Bean and display the same information	2			0			
		through another JSP							
		OR							
	a)	Explain the Bound and constrained properties for	1	3	2	8			
6		design pattern							
	b)	Write a short notes on JAR file and Manifest file.	1	3	2	8			
Module-4									
7	a)	Mention and explain the built- in annotation in java	1	3	2	8			
	b)	Explain the following with code snippet i) scrollable	2	4	3	8			
		ResultSet ii) Batch update							
OR									
	a)	Describe the various steps of JDBC with a code	2	4	3	8			
8		snippet.							
b)		Briefly explain the basic and advanced JDBC data	1	4	3	8			
		types							
		Module-5							
9	a)	What is session bean? Explain the types of session bean	1	6	4	8			
	b)	Explain the container services provided by the	1	6	4	8			
		component model of EJB							
		OR							
	a)	Describe the life cycle of message driven bean	2	6	4	8			
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	b)	With a neat diagram explain the life cycle and methods	2	6	4	8			
		of stateless session bean							

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