| USN | | | | | | | | | | 21CSTE6042 |

B. E. Degree (Autonomous) Sixth Semester End Examination (SEE),

JAVA FULL STACK DEVELOPMENT

(Model Question Paper –I)

Time: 3 [Hours]   [Maximum Marks: 100]

Note   Answer ANY ONE from Question No. 1 and 2
        Answer ANY ONE from Question No. 3 and 4
        Answer ANY ONE from Question No. 5 and 6
        Answer ANY ONE from Question No. 7 and 8
        Answer ANY ONE from Question No. 9 and 10

Q.NO		Answer Five Full Questions	Marks	CO'S	Bloom's Level
1	a.	Explain the evolution of JAVA. List out java buzzwords.	06 Marks	CO1	L1,2
	b.	What is a Java Exception? List out the difference between checked and Unchecked exceptions with a program examples.	06 Marks	CO1	L1,2
	c.	Design and implement JAVA cod snippet to create five threads with different priorities. Send two threads of the highest priority to sleep state. Check the aliveness of the threads and mark which is long lasting.	08 Marks	CO1	L5
		Or			
2	a.	Explain the following with program examples: i)< = ii) > = iii) >> iv) << v) >>>	12 Marks	CO1	L2
	b.	List out the best practices for Java Collections Framework?	08 Marks	CO1	L1,2

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3	a.	Explain Lambda Expression with a syntax and differentiate between Lambda Expression and over Regular Methods. Write JAVA Lambda Expression program using one parameter.	10 marks	CO2	L1,2
	b.	Design and implement a simple JDBC application program.	10 Marks	CO2	L5
		Or			
4	a.	Explain the following with a program example: i. Statement ii. PreparedStatement	10 marks	CO2	L2
	b.	Define Streams. List out the difference between stream and collections with examples.	10 Marks	CO2	L1,2
5	a.	Define JPA. Explain the properties of an Entities objects. Design and implement a simple entity program for student class.	10 Marks	CO3	L1,5
	b.	Explain One-to-One Entity Relation mapping both in unidirectional and bidirectional way with an example.	10 Marks	CO3	L2
		Or			
6	a.	Explain the steps for creating the Hibernate application.	10 Marks	CO3	L2
	b.	Explain the following with an program example: i.Entity relationship ii. Querying Entities	10 Marks	CO3	L2
7	a.	Explain Spring web MVC. Design and implement simple spring web MVC framework program to display Helloworld.	10Marks	CO4	L1,5
	b.	Define Spring Boot. Why should we use Spring Boot Framework? List out Spring boot features.	06 Marks	CO4	L1,2
	c.	List out the difference between Spring Boot and Spring MVC.	04 Marks	CO4	L1
		Or			

8	a.	Design and implement simple spring boot program to print "WELCOME TO SPRING BOOT".	10 Marks	CO4	L5
	b.	Explain the following with a program: i.Spring Container ii. Dependency injection	10Marks	CO4	L2
9	a.	Define Angular JS. Explain features of Angular JS.	10 Marks	CO5	L1,2

	b.	Explain the following Angular JS Directives with an example:
		   i. ng-app
		   ii. ng-init
			10 Marks	CO5	L1,2

		Or			
10	a.	Explain how to redirect to a particular section of a page using HTML with an example.	10 Marks	CO5	L2
	b.	Write a note on Node.js.	05 Marks	CO5	L1
	c.	Explain Angular JS Modules.	05 Marks	CO5	L2