USN										

21CSTE6042

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

JAVA FULL STACK DEVELOPMENT

(Model Question Paper –II)

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 concepts of Object Orientation.	04 Marks	CO 1	L 1,2
	b.	What is String Parsing in Java? Explain parsing of Integers to String with a program example.	06 Marks	CO 1	L 1,2
	c.	Design JAVA code snippet to demonstrate the creation of Threads in two different ways.	10 Marks	CO 1	L 5
		Or			
2	a.	Explain how type safety can be achieved in Collections with an example.	08 Marks	CO 1	L2
	b.	Design Java code snippet to demonstrate the following i.foreach loop ii.Switch iii.dowhile	12 Marks	CO 1	L5
3	a.	Explain how concurrency problems are overwhelmed in Collections with example.	10 marks	CO 2	L1,2
	b.	Design and implement a simple JDBC application program.	10 Marks	CO 2	L5
		Or			

4	**a.**	Write note on Design Patterns in Java i.Creational ii.Structural iii.Behavioural	**10 marks**	**CO 2**	**L2**
	b.	Define Streams. List out the different StreamAPI Operations and explain with an example.	**10 Marks**	**CO 2**	**L1,2**
5	**a.**	Define JPA. Explain the properties of an Entities objects. Design and implement a simple entity program for employee class.	**10 Marks**	**CO 3**	**L1,5**
	b.	Explain One-to-many Entity Relation mapping both in unidirectional and bidirectional way with an example.	**10 Marks**	**CO 3**	**L2**
		Or			
6	**a.**	Explain JPA Architecture and how it is related to ORM.	**10 Marks**	**CO3**	**L3**
	b.	Explain the purpose of EntityManager in JPA.	**05 Marks**	**CO3**	**L2**
	c.	List some of JPA query methods and write about them.	**05 Marks**	**CO3**	**L2**
7	**a.**	Explain Spring Framework Architecture in detail.	**10Marks**	**CO4**	**L1,5**
	b.	Explain some of the most used Spring Boot annotations with an example.	**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 Bean Lifecycle in Spring Framework.	**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:	**10 Marks**	**CO5**	**L1,2**

		i. ng-app ii. ng-init			
Or					
10	**a.**	Design the code for simple "Hello World" Angular JS application and showcase the Model, View and Controller part in it.	**10 Marks**	**CO5**	**L2**
	b.	Differentiate among Javascript and Node.js.	**05 Marks**	**CO5**	**L1**
	c.	Explain Angular JS Modules.	**05 Marks**	**CO5**	**L2**