Velegapudi Ramakrishna Siddhartha Engineering College::Vijayawada

(Autonomous)

II /IV B Tech Degree Examinations(Month/Year)

Fourth Semester

Department of Information Technology

20IT4302: JAVA PROGRAMMING

VR 20

Time:3Hrs	**MODEL QUESTION PAPER**	Max Marks:70

Part – A is Compulsory

Answer one (01) question from each unit of Part – B

Answers to any single question or its part shall be written at one place only

Cognitive Levels(K): K1-Remember;K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create

Q. No		Question	Marks	Course Outcome	Cog. Level
Part - A			**10X1=10M**		
1	a	Difference between the ***Class*** and ***Object*** in Object-Oriented programming language?	1	CO1	K1
	b	Difference between a ***Method*** and ***Constructor*** in Java?	1	CO1	K1
	c	Difference between ***static*** and ***final*** keywords?	1	CO1	K1
	d	"JVM is a platform dependent" is it True or False ? Justify your answer?	1	CO1	K1
	e	What is the difference between *'**throw**'* and *'**throws**'* in Java Exception Handling?	1	CO2	K3
	f	Difference between *paint()* and *repaint()* methods?	1	CO4	K4
	g	Differentiate between ***HashSet*** and ***TreeSet***.	1	CO3	K2
	h	Difference between ***interface*** and ***abstract classe***?	1	CO2	K4
	I	Define Stream in Java?	1	CO4	K1
	j	Differentiate Lambda and Block lambda expressions in Java.	1	CO4	K1
Part - B			**4X15 =60M**		
		UNIT - I			
2	a	Differentiate ***type conversion*** and ***type-casting*** in JAVA with examples.	7M	CO1	K1
	b	Write a java program to compute the product of the given two matrices.	8M	CO1	K4
		(OR)			
3	a	Write a program to perform the following functions using classes, objects, constructors where essential. i. Get the input of marks of 5 students in 5 subjects ii. Calculate the total and average iii. Print the formatted result on the screen	7M	CO1	K3
	b	Describe how immutable objects can be created in Java with an example.	8M	CO1	K3
		UNIT - II			
4	a	Illustrate with an example on how Java achieves run time polymorphism.	8M	CO2	K2
	b	Illustrate with an example java program for invoking overridden method from a sub-class.	7M	CO2	K3
		(OR)			
5	a	How packages are created and accessed in Java. Briefly explain the naming convention in packages?	7M	CO2	K2
	b	What is exception handling? How multiple exceptions are caught in a single program? Write a java program to demonstrate the use of custom exception.	8M	CO2	K2

UNIT - III					
6	a	Explain Multithreading. Demonstrate with the help of example that how to set priorities in threads.	7M	CO3	K2
	b	Write a java program to find the addition of the given two matrices using thread concept.	8M	CO3	K3
(OR)					
7	a	Illustrate the differences between ArrayList and LinkedList with an example.	7M	CO3	K2
	b	Write a program to create a TreeSet instance and access elements of it.	8M	CO3	K3
UNIT - IV					
8	a	What is Lambda expressions in Java and demonstrate the working of lambda expressions with small programs.	7M	CO4	K2
	b	Write a program to convert an ArrayList to HashMap using a Lambda Expression in java.	8M	CO4	K3
(OR)					
9	a	What are the different intermediat and terminal operations are exist in Java Stream and demonstrate them with an example programs.	7M	CO4	K1
	b	write a java program for creating a data source using an array as a data source.	8M	CO4	K2

Designation	Name in Capitals	Signature with Date
Course Coordinator	N. SATYA KRISHNA	
Program Coordinator	Dr. A. KLYANI	
Head of the Department	PROF. M. SUNEETHA	