

# CBCS SCHEME

USN

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BCS306A

## Third Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 Object Oriented Programming with Java

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks, L: Bloom's level, C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Discuss the different data types supported by Java along with the default values and literals.	8	L2	CO1
	b.	Develop a Java program to convert Celsius temperature to Fahrenheit.	6	L3	CO2
	c.	Justify the statement "Compile once and run anywhere" in Java.	6	L2	CO1
<b>OR</b>					
Q.2	a.	List the various operators supported by Java. Illustrate the working of >> and >>> operators with an example.	8	L2	CO1
	b.	Develop a Java program to add two matrices using command line argument.	10	L3	CO2
	c.	Explain the syntax of declaration of 2D arrays in Java.	2	L2	CO1
<b>Module – 2</b>					
Q.3	a.	Examine Java Garbage collection mechanism by classifying the 3 generations of Java heap.	3	L2	CO1
	b.	Develop a Java program to find area of rectangle, area of circle and area of triangle using method overloading concept. Call these methods from main method with suitable inputs.	10	L3	CO2
	c.	Interpret the general form of a class with example.	4	L2	CO2
<b>OR</b>					
Q.4	a.	Outline the following keywords with an example : (i) this (ii) static	6	L2	CO2
	b.	Develop a Java program to create a class called 'Employee' which contains 'name', 'designation', 'empid' and 'basic salary' as instance variables and read ( ) and write ( ) as methods. Using this class, read and write five employee information from main ( ) method.	10	L3	CO2
	c.	Interpret with an example, types of constructions.	4	L2	CO2
<b>Module – 3</b>					
Q.5	a.	Illustrate the usage of super keyword in Java with suitable example. Also explain the dynamic method dispatch.	10	L2	CO3
	b.	Build a Java program to create an interface Resizable with method resize (int radius) that allow an object to be resized. Create a class circle that implements resizable interface and implements the resize method.	10	L3	CO3
<b>OR</b>					
Q.6	a.	Compare and contrast method overloading and method overriding with suitable example.	8	L2	CO2

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