		Sixth Semester B.E. Degree Examination, July/August 2022	2
		Programming in JAVA	
Tir	ne: (3 hrs. Max. M	arks: 100
	N	ote: Answer any FIVE full questions, choosing ONE full question from each mo	dule.
		Module-1	
1	a.	Explain 3 OOP's principles.	(06 Marks)
	b.	Explain the process of compiling and running the java application with the examp	le. (06 Marks)
	c.	Discuss the various primitive data types used in Java.	(00 Marks)
_		OR	
2	a.	How are arrays declared and initialized in Java. Explain with suitable examples.	(10 Marks
	b.	Explain scope and lifetime of variables with an example. Explain automatic type promotion in expressions with rules and a demo program.	(05 Marks
	C.	Explain automatic type promotion in expressions with fules and a demo program.	(05 Marks
		Module-2	
3	a.	What are different types of operators in Java? Explain them.	(10 Marks
	b.	Write a program to find biggest among 3 numbers using ternary operator.	(05 Marks
	c.	Differentiate between while – loop and do-while loop in Java.	(05 Marks
4	a.	Write a java program to perform simple calculator operation.	(05 Marks
-	b.	Discuss for – each loop with an example.	(05 Marks
	c.	Demonstrate the use of :	
		i) Continue statement in while loop	
		ii) Break statement in do while loop.	(10 Marks
		Module 3	
5	a.	Explain class with an example.	(05 Marks
J	b.	What are constructors? Explain with an example.	(05 Marks
	c.	Explain the following :	
		i) this keyword	
		ii) Garbage collection in Java	
		111) finalize() method.	(10 Marks
		OR	
6	a.	What is inheritance? Discuss different types of inheritance with suitable example.	(10 Marks
	b.	Explain method overriding with an example.	(05 Marks
	с.	Explain abstract class and abstract method with an example.	(05 Marks

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Module-4

What is package? How to create and import package in java. Explain with an example. a.

(10 Marks) What is an interface? Explain how to define and implement interface by taking suitable b. example. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.

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8	 OR a. What is an exception? Explain the following : i) try ii) catch iii) throw iv) throws 	
	b. How do you create your own exception class? Explain with a program.	(12 Marks) (08 Marks)
	Module-5	
9	a. What is applet? Explain program in applet with an example.b. Explain the following :	(10 Marks)
	i) Enumerationsii) Type wrappers.	(10 Marks)
10	a. What is string in Java? Explain string class constructors with an example.	(10 Marks)
	 b. Explain the following : i) String comparison method ii) Modifying a string. 	(10 Marks)
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