

18CS653

Sixth Semester B.E. Degree Examination, July/August 2022 Programming in JAVA

Time: 3 hrs

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

		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		
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	c.	Discuss the various primitive data types used in Java.	(08 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.	(05 Marks)	
	c.	Explain automatic type promotion in expressions with rules 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)	
		OR		
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 loopii) Break statement in do while loop.	(10 Marks)	
		ii) Break statement iii do winie 100p.	(10 Marks)	
		Module-3		
5	a.	Explain class with an example.	(05 Marks)	
	b.	What are constructors? Explain with an example.	(05 Marks)	
	c.	Explain the following:		
	6	i) this keyword		
		ii) Garbage collection in Java		
		iii) finalize() method.	(10 Marks)	
_		OR	(10 Manles)	
6	a.	What is inheritance? Discuss different types of inheritance with suitable example.	(10 Marks) (05 Marks)	
	b.	Explain method overriding with an example. Explain abstract class and abstract method with an example.	(05 Marks)	
	c.	DAPIGITI GOSTIGOT OTGOS GITG GOSTIGOT INCUIDO WITH GIT OXGINDIO.	(00 minus)	
Module-4				
7	a.	What is package? How to create and import package in java. Explain with an exan	nple.	
		(10 Marks)		

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

OR

- 8 a. What is an exception? Explain the following:

 i) try

 ii) catch

 iii) throw

 iv) throws

 v) finally.

 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. (10 Marks)
 - b. Explain the following:
 i) Enumerations
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 and GALORE 560 037
 - ii) Type wrappers. (10 Marks)
- OR

 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)