

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 2nd Semester Examination, 2023

CMSACOR03T-COMPUTER SCIENCE (CC3)

PROGRAMMING IN JAVA [1242211 400 14]

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

GROUP-A

1.	Answer any four questions from the following:	$2 \times 4 = 8$
✓(a)	Why Java is called platform independent language?	
(b)	What is the role of Garbage Collection?	
~(c)	What are the main uses of "super" keyword?✓	
√(d)	What are exceptions?	
~(e)	Differentiate between C++ and JAVA.	
(f)	Differentiate between abstract class and interface.	
✓(g)	What is the difference between procedural and object oriented language?	
_(h)	What is the difference between default constructor and parameterized constructors?	
GROUP-B		
	Answer any four questions from the following	8×4 = 32
2. (a)	Explain the use of final keyword in variable, method and class.	3+3+2
	Describe the substring() and indexOf() methods of String class with suitable examples.	-
(c)	When you can use 'this' keyword?	

(b) What restrictions are placed in method overloading and method overriding?

(c) What is the basic property of a static variable?

4. (a) Java works as "pass by value" or "pass by reference" phenomenon. (b) What is the difference between String.equals() and = = operator?

(c) Write a program to find the factorial of a given number.

3. (a) Describe method overloading and method overriding.

Turn Over

3+3+2

2+2+4

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(a) How inheritance is incorporated in Java?

(b) Is it possible in Java to have multiple inheritance? If not then how can it be implemented in Java?

6. (a) What is a thread?

(b) What is an interface?

(c) What happens if there is no 'catch' block with a 'try' block in exception handling?

7. (a) Explain public static void main (string args[]) in Java.

(b) Illustrate the use of 'throw' and 'throws' in Java.

8. (a) What is the benefit of creating package in Java?

(b) Explain with example, what is object reference?

(c) What is Applet?

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