No.	:	
	No.	No. :

Total No. of Questions: 16] [Total No. of Printed Pages: 3

SEM-3014

M.Sc. (IIIrd Semester) Examination, 2022 COMPUTER SCIENCE

Paper - MCS-302 (A)

(Java)

Time: 3 Hours [Maximum Marks: 40

The question paper contains three Sections.

Section-A (Marks : $1 \times 10 = 10$)

Note: Answer all the *ten* questions carries 1 mark each. The answer should not exceed 50 words.

Section–B (Marks : $3 \times 5 = 15$)

Note: Answer any five questions by selecting at least *one* question from each Unit.

Each question carries 3 marks. Answer should not exceed 200 words.

Section–C (Marks: $5 \times 3 = 15$)

Note: Answer *three* questions by selecting *one* question from each Unit. Each question carries 5 marks. The answer should not exceed **500** words.

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Section-A

1.

(i)

(ii)

(iii)

Define Keywords.

What is Constant?

What do you understand by type casting?

	(iv)	Define instance variable.			
	(v)	What is the use of super?			
	(vi)	What is final class?			
	(vii)	What do you understand by wrapper classes?			
	(viii)	What is the role of finally in exception handling?			
	(ix)	What are command line arguments ?			
	(x)	What is thread priority ?			
		Section-B			
		Unit–I			
2.	Explain datatypes in Java.				
3.	Write a program to check a given number is odd or even.				
4.	Give an example of constructor.				
		Unit–II			
5.	Explain types of inheritance.				
6.	How multiple inheritance is implemented by interface ? Give an example.				
7.	Explain vector with example.				
		Unit-III			
8.	Give an example of taking input from user.				
9.	Explain exception handling in Java with example.				
10.	What is the difference between Thread class and Runnable interface ?				
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Section-C

Unit-I

- 11. Explain method overloading with suitable example.
- 12. Write a program to check a given number is prime or not.

Unit-II

- 13. What is Abstract Class? Explain method overriding with example.
- 14. Explain Packages.

Unit-III

- 15. What are different types of Errors? Explain the difference between throw and throws.
- 16. Explain life cycle of thread in detail.

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