Total	Pages-02
-------	----------

RNLKWC/B.Sc./CBCS/BCA/IIS/C3T/22

2022

BCA

[Honours]

(B.Sc. Second Semester End Examination-2022) PAPER-C3T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

Group A

1) Answer any Five questions:

2x5 = 10

- a. What are the typical responsibilities of JVM?
- b. Why Java is called platform independent?
- c. Differentiate between '==' operator and equals () method in the context of string object.
- d. What is method overriding?
- e. What is the use of the keyword 'super'?
- f. How to define an abstract class? When should we define a class as abstract?
- g. What is a package?
- h. What do you mean by an exception handler?

Group B

A	any Four Questions: 4x5 = 20						
2.	What is the significance of static variable? Write a program to						
	find the area of a rectangle using static method. 2+3						
3.	Write a Java program to check whether a string is palindrome or						
	not. 5						
4.	What is exception? Explain any two exceptions on Java with						
	example. 1+4						
5.	What is the difference between method overloading and method						
	overriding? What do you mean by 'Encapsulation'? 2+2+1						
6.	. What is interface? Write a Java program to implement multiple						
	inheritance. 1+4						
7.	What is inheritance? What are the major advantages of package						
	in Java? 2+3						
Group C							
Ar	aswer any One Question: $1x10 = 10$						
8.	Create a class called Box which contains there variables -						
	width, height and length. Set the values of the variables using						
	constructor overloading and also one method volume () which						
	returns the volume of the box. From main method, call the						
	volume method of the class and print the volume.						
	What is the difference between interface and class? 8+2						
9.	What is multithreading? What are the advantages of						
	multithreading? Explain the lifecycle of a thread. 2+4+4						

•	•		
			. •