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RNLKWC/B.Sc./CBCS/IIIS/H/C3T/23

BCA [HONOURS]
[CBCS]
B.Sc. Second Semester End Examination-2023
(Regular & Supplementary Paper)
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 of the following: 5x2= 10
- a) What are the advantages of multithreading?
 - b) What is the difference between Java application and Java Applet?
 - c) What is the significance of 'finally' block in exception handling?
 - d) What is an exception?
 - e) What is static block in Java?
 - f) Why Java is called Robust?
 - g) What is the difference between widening and Narrowing in Java?
 - h) 'Reusability in the major advantage of inheritance' – Justify.

Group B

Answer any FOUR questions of the following: **4x5 = 20**

2. What is multithreading? Write a simple program to implement multithreading.
3. What is the advantage of exception handling? What are the differences between checked Exception and unchecked Exception?
4. What is package? Write a Java program to find the factorial of any integer using package.
5. What is wrapper class? What do you mean by auto boxing and unboxing?
6. Write a Java program to print the following program:

```
*  
***  
*****  
*****
```

7. What is the difference between an interface and a class? What do you mean by method overriding?

Group C

Answer any ONE question of the following: **1x10 = 10**

8. What is data abstraction? What do you mean by abstract class and abstract method? Write a Java program to implement multiple inheritance. **2+3+5**
9. Define JDK, JRE and JVM. Write a Java Program to find the reverse of a number using command list argument. **3x2+4**