D 30469 (Pages : 2) Name..

Reg. No.....................................

FIFTH SEMESTER (CBCSS–UG) DEGREE EXAMINATION NOVEMBER 2022

B.C.A.

BCA/BCS 5B 08—JAVA PROGRAMMING

(2019 Admission onwards)

Time : Two Hours Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer **all** *questions.*
Each correct answer carries a maximum of 2 marks.
Ceiling 20 *marks.*

1. What is polymorphism ?

2. What is a class ? How it is declared ?

3. What is mean by state in OOPS ? Explain.

4. What is Java Virtual Machine in Java ?

5. What is the use of break Statement in Java ? Explain.

6. Explain nested classes in Java.

7. How to create a File Object ?

8. What is Processes ? Explain.

9. What are the different required Steps for create a new Database using JDBC application.

10. When an exception occurs but not handled by the catch block. What can we do ?

11. What is FontMetrics ?

12. What is an event classes in AWT ? Explain ActionEvent.

Section B (Short Essay Type Questions)

Answer **all** *questions.*
Each correct answer carries a maximum of 5 marks.
Ceiling 30 marks.

13. Compare between procedural and object oriented programming.

14. Explain the Exception Hierarchy in java.

Turn over

15. What is a method ? What are the difference between the paint() and rpaint() methods ?

16. List the applications of object oriented programming.

17. How to create and use a Graphics in Java program ? Write a program to draw a Polygon.

18. Write a java program to perform different types of Exception Handling.

19. Java Program to find second largest number in an array of *n* numbers.

Section C (Essay Type Questions)

Answer any **one** *question, correct answer carries 10 marks.*
Ceiling 10 marks.

20. (a) Discuss about anonymous inner classes with suitable example. (5 marks)

    (b) How to handle multiple catch blocks for a nested try block ? Explain with an example.

    (5 marks)

21. Write a note on :

    (a) File Class. (3 marks)

    (b) Buffered Streams. (3 marks)

    (c) Dynamic method dispatch and its advantages.

    (4 marks)