

D 30469

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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 repaint() 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)