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(Pages : 2)

Name.....

Reg. No.....

FIFTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION, NOVEMBER 2024

BCA

BCA 5B 08—JAVA PROGRAMMING

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A - Short Answer Type Questions

*All questions can be answered.
Each correct answer carries a maximum of 2 marks.
(Ceiling 20 Marks).*

1. Define objects in Java.
2. Write the use of the static keyword in Java.
3. Write the process of dynamic method dispatch in Java.
4. Discuss the difference between abstract class and interface in Java.
5. Explain the purpose of the final keyword when applied to a class.
6. Define polymorphism in object-oriented programming.
7. Discuss the steps to create a thread by extending the thread class.
8. Write the function of the repaint method in applets.
9. Write the role of the statement interface in JDBC.
10. What are the differences between BufferedReader and FileReader in Java ?
11. What are the different types of event listeners in AWT ?
12. Discuss the methods used to pass parameters to an applet.

(Ceiling 20 marks)

Section B - Paragraph/ Problem Type Questions

*All questions can be answered.
Each question carries 5 marks.
(Ceiling 30 Marks).*

13. Define inheritance and explain its advantages.
14. Describe the structure and components of a Java class.
15. Explain the use of interfaces in Java with an example.

Turn over

16. Explain the process of executing SQL queries using JDBC.
17. Describe exception handling with try-catch-finally blocks in Java.
18. Discuss the differences between daemon threads and user threads.
19. Write a Java program that demonstrates exception handling with custom exceptions.

(Ceiling 30 marks)

Section C - Essay Type Questions

*Answer any **one** of the following questions.
The question carries 10 marks.*

20. Explain the concept of encapsulation and how it is implemented in Java.
21. Discuss the Java I/O system and its main classes.

(1 × 10 = 10 marks)