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(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023**

BCA

BCA 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 encapsulation ?
2. What is an object ? How it is represented in OOPS.
3. What is Byte code ? Explain.
4. Explain the use of literals in Java.
5. What is the use of extends key word in Java ? Explain.
6. How are this and super keyword used ?
7. What is the difference between error and Exceptions ?
8. What is a Threads ? Explain.
9. What is the difference between Method overloading and Method overriding ?
10. What is an Applet ?
11. What is JDBC ?
12. What is the use of public int getColumnCount()throws SQLException ? Explain.

Turn over

Section B (Short Essay Type Questions)

*Answer **all** questions, each correct answer carries a maximum of 5 marks.*

Ceiling 30 marks.

13. Explain different Characteristics of OOPS.
14. What are the primitive data types in Java ? Write about type conversions.
15. How will you implement multiple inheritance using interface ? Explain with a program.
16. How to achieve synchronization among threads ? Write suitable code.
17. How do we create a Java applet ? Discuss its life cycle showing passing parameters to Applets.
18. Write a program to count number of words in a given sentence without using string functions.
19. What feature of Java makes it platform independent and portable ?

Section C (Essay Type Questions)

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

Ceiling 10 marks.

20. What is inheritance ? Explain different forms of inheritance with suitable program segments and real world example classes.
21. (a) What is a constructor ? What is its requirement in programming ? (4 marks)
- (b) Explain any five Event Listener Interfaces ? Write a program to prepare electricity bill using Applet.

(6 marks)