D 50533	(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

2 **D 50533**

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)