

**D 90101**

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Name.....

Reg. No.....

**FIFTH SEMESTER B.C.A. DEGREE EXAMINATION  
NOVEMBER 2020**

(CUCBCSS—UG)

B.C.A.

BCA 5B 07—JAVA PROGRAMMING

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Section A**

*Answer all questions.*

*Each question carries 1 mark.*

1. What is a JVM ?
2. What is meant by Encapsulation ?
3. What is finalize () method ?
4. What is the importance of finally block ?
5. Which are the data types available in Java ?
6. Define constructor.
7. Define the terms : try, catch.
8. Write the usage of import statement.
9. What is the use of paint() method in Applet ?
10. Write a method to fill a rectangle with red color.

(10 × 1 = 10 marks)

**Section B**

*Answer at least five questions.*

*Each question carries 3 marks.*

*All questions can be attended.*

*Overall Ceiling 15.*

11. List any two built in packages from java API along with their use.
12. What is difference between multiprocessing & multithreading ?
13. What is the difference between constructor and method ?

**Turn over .**

14. What is synchronization ? How do we achieve it ?
15. How do we add a class or interface to a package ?
16. Give the difference between method overloading and method overriding.
17. Give a note on interfaces.
18. What is Synchronization ?

(5 × 3 = 15 marks)

### Section C

Answer at least **five** questions.

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

19. Explain about event handling.
20. Write a note on inner classes.
21. Write a program to find the sum of  $n$  numbers in java.
22. Explain about the characteristics of OOPs.
23. How can we create a Polygon using Graphics class ?
24. Explain <PARAM> tag of applet with suitable example.
25. Describe the history of java.
26. Write the steps to create an applet program.
27. Explain about Stream classes in Java.

(5 × 5 = 25 marks)

### Section D

Answer any **three** questions.

Each question carries 10 marks.

28. Write a JDBC program to update the balance in an account. Assume the suitable database table.
29. What is inheritance ? Explain the member access mechanism in inheritance with an example.
30. a) Explain the need of defining multiple catch clauses with example.  
b) What is meant by nested try statement ? When will they be used ? Explain with example.
31. Which are the different methods to create a thread ? Explain with example.
32. Explain about different control statements in java.

(3 × 10 = 30 marks)