

B.C.A./B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, APRIL 2019**Fifth Semester****Core Course—JAVA PROGRAMMING****(For B.C.A. and B.Sc. Computer Applications)****[2013 to 2016 Admissions]****Time : Three Hours****Maximum Marks : 80****Part A (Short Answer Questions)**

*Answer all questions.
Each question carries 1 mark.*

1. Define inheritance.
2. What are static methods ?
3. What is ternary operator ? Give an example.
4. What is default switch case ? Give example.
5. Can you write a Java class that could be used both as an applet as well as an application.
6. List the different states of 'Thread' in Java.
7. What is method overloading ?
8. Which method is used to initialize an Applet ?
9. Define literal.
10. What does AWT stands for ?

(10 × 1 = 10)**Part B (Brief Answer Questions)**

*Answer any eight questions.
Each question carries 2 marks.*

11. What are the various access specifiers for Java classes ?
12. Define Exception. Differentiate between throw and throws.
13. Distinguish between a class and an object ?
14. What is Character Stream in Java ?
15. List the AWT controls.
16. Explain Runtime Exceptions.

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17. What is Abstract class ?
18. Explain the usage of *this()* with constructors.
19. What is function overriding ?
20. What is NullPointerException ?
21. What are token in Java ?
22. Write about thread priorities.

(8 × 2 = 16)

Part C (Descriptive/Short Essay Type Questions)

Answer any **six** questions.

Each question carries 4 marks.

23. Briefly explain about the causes of Exception.
24. What are the various string handling functions in Java ?
25. Explain the different usage of static and final keywords in Java.
26. What is an Event ? Explain about different components of an Event.
27. Explain briefly about different steps in creating an Applet.
28. What is Thread ? What are the ways to create a Thread ?
29. Differentiate between checked and unchecked exception.
30. Write a java program to print multiplication table of any number.
31. Write an applet that accepts two integer numbers and displays the sum and product of these numbers.

(6 × 4 = 24)

Part D (Long Essay)

Answer any **two** questions.

Each question carries 15 marks.

32. Discuss the various java data types with example.
33. What are the different types of exceptions available in Java and how they are handled ?
34. What are stream classes ? Explain in detail.
35. Briefly explain about different control statements in Java with examples.

(2 × 15 = 30)