

2018

BCA 5th Semester Examination

JAVA LAB.

PAPER—3196 (Set-II)

(Practical)

Full Marks : 100

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer any two questions (on lottery basis).

1. Write a program in Java to swap two numbers using three variables.
2. Write a program in Java to find whether a number is Prime or not.
3. Write a program in Java to check a number is Armstrong or not.
4. Write a program in Java to multiply two numbers. Use constructor in the program.
5. Write a program in Java to show the use of an abstract class.
6. Write a program in Java to implement function overloading.
7. Write a program to display a circle and triangle using Applet. Fill the figures with a color.
8. Write a program in Java to show the use of try, catch and finally block.
9. Write a program in Java to implement multilevel inheritance.
10. Write a program in Java that accepts a shopping list of five items from the command line and stores them in a vector.
11. Write a Java program that prints all real solutions to the quadratic equation $ax^2 + bx + c = 0$. Read in a, b, c and use the quadratic formula. If the discriminant $b^2 - 4ac$ is negative, display a message stating that there are no real solutions?

12. Write a program in Java to print the sum of digits of a number.
13. Write a program to implement the concept of threading by implementing Runnable Interface.
14. Write a program using Java language to implement the concept of Exception Handling using predefined exception.
15. Write a program in Java to count the number of vowels and consonants in a string.

[Internal Assessment — 30]
