AV–1859

B.C.A. (Part—III) Semester—V Examination
5ST1 : CORE JAVA

Time : Three Hours]   [Maximum Marks : 60

Note :—(1) **All** questions are compulsory.

(2) All questions carry equal marks.

(3) Assume suitable data wherever necessary.

1. (a) What are the primitive data types of Java ? Explain with example.   6
    (b) Write a program to count vowels in string.   6

OR

2. (a) Explain :
        (i) Types casting
        (ii) Java literals.   6
    (b) Explain types of operators with example.   6

3. (a) How constructor calling is done in an Inheritance ? Explain.   6
    (b) Explain the difference between simple class and abstract class.   6

OR

4. (a) Explain the concept of constructor overloading with suitable example.   6
    (b) Explain :
        (i) Sub class
        (ii) Super class.   6

5. (a) Write procedure to create user defined package.   6
    (b) Explain variable declaration in interfaces with example.   6

OR

6. (a) State and explain the difference between a class and interface.   6
    (b) Explain any six Java packages.   6

7. (a) Explain try and catch blocks to handle an exception.   6
    (b) What is Multithreading ? Write its advantages and disadvantages.   6

OR

8. (a) State and explain the life cycle of thread.   6
    (b) Explain :
        (i) Nested Try Statement
        (ii) Multiple Catch Blocks.   6

9. (a) What is Layout Manager ? Explain any three Layout Managers.   6
    (b) Explain Mouse Listener Interface and Mouse Motion Listener Interface.   6

OR

10. (a) Explain how GUI objects are placed in Applet with suitable example.   6
    (b) Explain Event class with example.   6