

FOURTH SEMESTER B.C.A. DEGREE EXAMINATION, MAY 2012

(CCSS)

BCA — Core Course

BCA CA4 B05—PROGRAMMING IN JAVA

Time : Three Hours

Maximum : 30 Weightage

Part I*Answer all questions.*

1. The statement

System.out.print ((double) 7/4);

prints

- (a) 1.75. (b) 1.
(c) 1.0. (d) 2.0.

2. Which of the following methods is used to get the error message for the exception that was thrown ?

- (a) *printmessage.* (b) *extractmessage.*
(c) *throwmessage.* (d) *getMessage.*

3. *Math.ceil(x)* has the same value as

- (a) *-Math.floor (-x).* (b) *-Math.ceil(-x).*
(c) *-Math.floor (x).* (d) *-Math.ceil(x).*

4. Garbage collector frees the programmer from worrying about :

- (a) memory leaks. (b) dangling references.
(c) creating new objects. (d) recursion.

5. Automatic conversion from primitive type to an object of the corresponding wrapper class is called :

- (a) coercing. (b) casting.
(c) boxing. (d) widening.

6. Constants that cannot be changed are declared using the keyword :

- (a) *final.* (b) *static.*
(c) *abstract.* (d) *immutable.*

7. Which of the following can be used to copy data from one array to another?

- (a) *System.clone* (b) *java.lang.toCopy.*
(c) *System.array copy.* (d) *java.lang.clone.*

Turn over

8. Which of the following represents the range of values that a variable of datatype *byte* can take ?
- (a) - 128 to + 127. (b) -127 to + 128.
(c) - 128 to + 128 (d) The range depends on the JVM.
9. Which of the following methods neither takes any parameter nor returns anything ?
- (a) constructor. (b) catch.
(c) finalize. (d) none of these.
10. What does the statement
- ```
import java.util.*;
import ?
```
- (a) all the classes in the package *java.util*  
(b) all the methods in the class *java.util*  
(c) all the packages starting with *java.util*  
(d) none of these.
11. Which of the following can be used to generate HTML documentation from a Java source code ?
- (a) *Javadoc*. (b) *javaHtmlDoc*.  
(c) *javac*. (d) *jar*.
12. The statement
- ```
Double var1 =8/3;
System.out.println(var1);
```
- prints
- (a) 2. (b) 2.0.
(c) 3.0. (d) 2.7.

(12 × ¼ = 3 weightage)

Part II

Answer all questions.

13. What is an operator ? Explain its use.
14. What is an interface ?
15. How packages can be defined in Java
16. What do you mean by code reusability ? How it can be achieved in Java ?
17. What is an array ? How it can be defined in Java ?
18. What is an applet ?

19. Briefly discuss about web application software.
20. Write the syntax of if statement in Java.
21. Define exception.

(9 × 1 = 9 weight)

Part III

Answer any five questions

22. Explain the different looping statements supported by Java.
23. Explain how the keyboard listener interface can be implemented in Java ?
24. Describe about the String object and its methods.
25. Discuss the concept of JDBC with the help of examples.
26. Explain how multidimensional arrays can be defined in Java ?
27. Discuss about the responsibilities of a garbage collector.
28. Explain how the input/output files can be managed in Java ?

(5 × 2 = 10 weight)

Part IV

Answer any two questions

29. Explain in detail the concepts of J2EE.
30. Explain in detail the graphic programming capabilities of Java with examples.
31. What do you mean by multithreaded programming? How it can be implemented in Java ? Explain with examples .

(2 × 4 = 8 weight)