FOURTH SEMESTER B.C.A. DEGREE EXAMINATION, APRIL/MAY 2015

(UG—CCSS)

Core Course

CA 4B 05—PROGRAMMING IN JAVA

Time : Three Hours   Maximum : 30 Weightage

I. Answer *all* questions :-

1 Which of the following are invalid variable names ?

    (a) One.   (b) $n_i + n_2$.

    (c) one*.   (d) "one".

2 Which keyword can protect a class in a package from accessibility by the classes outside the package ?

    (a) Private.   (b) Protected.

    (c) Final.   (d) Don't use any key word.

3 Constants are called _____ in java.

    (a) Numeral.   (b) Literals.

    (c) Variables.   (d) None of the above.

4 The scope of a variable is restricted to _____ in which they are declared.

    (a) Block.   (b) File.

    (c) Interface.   (d) Package.

5 Non printable characters are represented by _____ characters.

    (a) *.   (b) //.

    (c) /*.   (d) Escape sequence.

6 default initial value for a character type is ————

    (a) Null.   (b) False.

    (c) Space.   (d) None of the above.

Turn over

7 Which of the following is a javadoc comment ?

    (a) //#.   (b) 1*.

    (c) /* * /.   (d) //**.

8 When we invoke repaint 0 for a component which method is invoked ?

    (a) Draw 0.   (b) Show.

    (c) Update.   (d) Paint.

9 A class may be both abstract and final :

    (a) True.   (b) False.

10 Threads can be created by implementing _____ class.

    (a) Run.   (b) Thread.

    (c) **Runnable**.   (d) All the above.

11 Which of the following methods belongs to String class ?

    (a) **Length()**.   (b) CompareTo().

    (c) **Substring**.   (d) All of them.

12 It is possible to assign a subclass object to a super class reference.

    (a) True.   (b) False.

(12 x ¼ = 3 **weightage**)

II. Short Answer type Questions. Answer all *nine* questions :

13 What are the different arguments in **draRect()** method ?

14 What is a vector ? How is it different from an array ?

15 What is the use of import statement in java ?

16 What is thread priority ?

17 What is a run time error ?

18 What is a stream class ?

19 What are the different Java tokens ?

20 What is object oriented programming ? How is it differ from procedure oriented programming ?

21 Why is java platform independent ?

(9 x 1 = 9 **weightage**)

III. Short Essay *or* Paragraph Questions :-

 22 What is inheritance ?

 23 What is an abstract class ?

 24 What are the different logical and relational operators in Java ?

 25 Explain the basic Java program structure.

 26 Demonstrate the nesting of *if else if* statements.

 27 What are the different methods available in vector class ?

 28 How do we add a class or interface to a package ?

(5 x 2 = 10 weightage)

IV. Essay Questions. Answer any *two* questions :-

 29 What are the different ways to create a thread in Java. Illustrate multithreading in Java with a suitable example ?

 30 Explain **Applet** life cycle. Give an example of a simple **Applet** program

 31 What is meant by initializing a file stream object ? What are the ways of doing it ? Give example code for each of them.

(2 x 4 = 8 weightage)