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Name...

Reg. No...

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) $n_1 + n_2$.

    (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 The default initial value for a character type is ————.

    (a) Null.

    (b) False.

    (c) Space.

    (d) None of the above.

7 Which of the following is a javadoc comment ?

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

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

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

(a) Draw ().   (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 × ¼ = 3 wei

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 or
programming ?

21 Why is java platform independent ?

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 × 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 × 4 = 8 weightage)