C 41453

Name.................................

Reg. No.............................

FOURTH SEMESTER B.C.A. DEGREE EXAMINATION, MARCH 2013

(CCSS)

CA4 B05—PROGRAMMING IN JAVA

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* questions :

1 Java is associated with _____ programming language.

    (a) Oak.   (b) Basic.

    (c) C.   (d) Perl.

2 OOPS allows us to decompose a problem into a number of entitles called _____

3 _____ defines only abstract methods and final fields.

    (a) Interface.   (b) Class.

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

4 Grouping of classes is called as ————

    (a) Interface.   (b) Package.

    (c) Threading.   (d) Applet.

5 The _____ method is used to block the execution of the thread until further order :

    (a) Sleep ( ).   (b) Suspend ( ).

    (c) Wait ( ).   (d) Stop ( ).

6 Choose the proper operator precedence when evaluating an expression :

    1 Comparisons.   2 Logical operations.

    3 Increment.   4 Arithmetic operations.

    (a) 1-2-4-3.   (b) 4-3-1-2.

    (c) 2-1-4-3.   (d) 3-4-1-2.

7 An _____ determines which features of a class may be used by other classes :

    (a) Specifier.   (b) Inheritance.

    (c) Implementation.   (d) Access specifier.

8 The _____ attribute of the applet code identifies the name of the Java byte code :

    (a) Code.   (b) Param.

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

9 A _____ is a display monitor's smallest unit of resolution.

10 _____ method is called the first time an applet is loaded into the memory of a computer.

    (a) init method ( ).   (b) start method().

    (c) stop method ( ).   (d) destroy method O.

11 A applet tag is written in body tag of _____

    (a) HTMM.   (b) HTTP.

    • (c) HTML.   (d) Applet.

12 A _____ is a sequence of bytes travelling from a source to a destination over a communication path.

    (a) String.   (b) Stream.

    (c) Character.   (d) Integer:

(12 x   = 3 weightage)

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

13 Explan the tools of JDK.

14 Why main method is declared as Public, Static and Void ?

15 What do you mean by. Instantiating an object ? How it is done in Java ?

16 Explain how to add more classes to a package.

17 What are Interfaces ? or How to support multiple inheritance in Java ?

18 What are the uses of Try and Catch statement ?

19 What are the uses of status window in applet ?

20 Differentiate between Thread and Process.

21 What is JDBC

(9 x 1= 9 weightage)

III. Short. Essay or Paragraph Questions :

22 Explain any *six* separators in Java with example.

23 Write about recursion methods with example.

24 Write about *abstract class.*

25 Explain the usage of *arrays* and *vectors* in Java.

26 Explain the life-cycle of applet with examples.

27 What are the uses of is Alive ( ) and join ( ) methods in thread ?

28 Explain the Inputstream class hierarchy with an example program.

(5 x 2 = 10 weightage)

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

29 Explain the lifecycle of thread with example. Explain the different ways of creating thread, with examples.

30 Explain in detail about Java Buzzwords (or) Java 'features (or) characteristics.

31 Write a program to print all combinations of four digit number. A four digit number is generated using only four digits (1, 2, 3 and 4) and the number has second digit greater than first digit and fourth digit is less than third digit :

    Case 1 : Duplication of digit is allowed.

    Case 2 : Duplication of digit is not allowed.

(2 x 4 = 8 weightage