AJ-123

April-2016

B.C.A., Sem.-IV

CC-210 : Core Java

e : 3 Hours]   [Max. Marks : 70

(a) State and explain the features of Java.   7

OR

State and explain the different types of operators in Java.

(b) Answer the following :

   (i)   What is meant by constructor ? Also explain constructor overloading.   4

   (ii)   Differentiate between : Java Applications and Java Applets.   3

OR

Answer the following :

   (i)   Discuss : InputDialog and ConfirmDialog boxes of JOptionPane class.   4

   (ii)   State and explain any three data types in Java in brief.   3

2.   (a) Explain the different looping statements in Java giving suitable example.   7

OR

What is Arrays class in Java ? Explain all the methods of Arrays class in detail.

(b) Answer the following :

   (i)   Explain the Integer and Double wrapper classes in Java.   4

   (ii)   Explain the insert( ) and setCharAt( ) methods.   3

OR

Answer the following :

   (i)   Explain the significance of string class in Java ? Also explain any two
          methods of String class.   4

   (ii)   How can we create arrays of strings ? Explain giving suitable examples.   3

3. (a) What is an exception ? How is Exception handling implemented in Java ? Also (4)
        explain the advantages of exception handling.

                            OR

        Discuss in detail the concept of inheritance in Java. How is multiple inheritance
        implemented in Java ?

    (b) Answer the following :

        (i)   Differentiate between : Interface and Abstract Class

        (ii) What is method overriding ?

                            OR

        Answer the following :

        (i)   What are static methods ? Why main( ) method is a static method in Java ?

        (ii) Explain the 'finally' block of exception handling.

4. (a) What is a Thread ? Explain the thread life cycle.   7

                            OR

        What is a Package ? What are the advantages of using a Package ? State and
        explain any four built-in-packages in Java.

    (b) Answer the following :

        (i)   Write a short note on : Thread Priorities.   4

        (ii) Explain : The import statement.   3

                            OR

        Answer the following :

        (i)   Explain : The applet tag.   4

        (ii) Explain any two methods of Graphics class.   3

                                                                                       14

5. Do as directed :

    (1) The Java compiler converts the source code into a binary program of _____.

    (2) In Java, the value of 4+7*4+5, will be _____.

    (3) Show MessageDialog is a JOptionPane method that can get input from the user.
         [True/False]

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Also (4) _____ method returns true if the argument is a letter and false otherwise.

(5) The method that determines whether two String objects are equivalent, regardless of Case, is _____.

nce (6) By using wrapper classes, we can convert a primitive data type into object type. [True/False]

(7) The default value of Boolean type variable is always false. [True/False]

(8) The constructor of a derived class can access the constructor of its base class by using the reserved word _____.

(9) An abstract class can be declared as final. [True/False]

(10) Errors and RuntimeExceptions are _____ exceptions.

(11) If a constructor includes a call to the constructor of the base class, then the call must be the first action in the constructor. [True/False]

(12) The _____ package is used for network communication.

(13) A dead thread can be restarted. [True/False]

(14) _____ method is used to draw an open ended polygon.

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