B. Voc. (ACTECH) (Sem. III) Examination

October / November – 2016

ACTECH-3.1 : Core Java

Faculty Code : 003
Subject Code : 039301

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   Attempt the following questions :   **20**

(1)   JVM stands for _____.

(2)   _____ keyword can be used in subclass to call the constructor of super class.

(3)   The output of the Java compiler is known as _____.

(4)   The _____ statement is used to include another Java package in a Java source file.

(5)   A subclass can be called a constructor method defined by its superclass by use of the _____ keyword.

(6)   If a=100, b=20, then a++ +--b= _____.

(7)   In Java, the AWT classes are contained in the _____ package.

(8)   _____ command is used as the Java interpreter.

(9)   It is possible to throw an exception explicitly using the _____ statement.

(10)   _____ is a reference to the current object on which the method was invoked.

(11)   Java supports multithreaded programming.
       (True / False)

(12)   Java has a keyword called finally.
       (True / False)

(13) Java does not support operator overloading.
(True / False)

(14) It is possible to throw an exception explicitly using the throw statement.
(True / False)

(15) If a class implements an interface, it must implement all the methods declared by that interface.
(True / False)

(16) What is abstract method?

(17) What is use of ^ operator?

(18) What is static block?

(19) What is use of "java" command?

(20) What is deadlock?

2 (a) Answer the following : (any **three**)   6

    (1) Explain any two methods of Math class.

    (2) Give difference between applet and application.

    (3) What is stream in Java?

    (4) Give difference between String and StringBuffer class.

    (5) Explain drawOval( ) and fillArc( ) method.

    (6) Describe wrapper class.

(b) Answer the following : (any **three**)   9

    (1) Explain final key word.

    (2) Explain modifiers of Java.

    (3) Explain Font class in detail.

    (4) Explain static keyword with example.

    (5) Describe structure of Java program.

    (6) Explain primitive data types of Java.

(c) Answer the following : (any **two**) **10**

    (1) Describe Java features in detail.

    (2) Describe abstract class and method with example.

    (3) Explain any three methods of Calendar class.

    (4) Explain interface in detail.

    (5) What is command line argument? Describe with example.

3 (a) Answer the following : (any **three**) **6**

    (1) Give difference between CharacterStream and ByteStream.

    (2) Explain Garbage collection and finalize( ) method.

    (3) Give difference between method overloading and method overriding.

    (4) Describe object and class.

    (5) Explain why Java is platform independent language.

    (6) Explain Stack Class in detail.

(b) Answer the following : (any **three**) **9**

    (1) Explain <applet> tag.

    (2) Describe Java API.

    (3) What is package? Explain how we can create package.

    (4) Explain super keyword with example.

    (5) Describe applet life cycle.

    (6) Explain suspend ( ), sleep ( ) and wait ( ) methods.

(c) Answer the following : (any **two**) 10

   (1) Explain Thread life cycle.

   (2) Explain Mouse Event handling with proper example.

   (3) Describe Exception Handling mechanism with example.

   (4) What is use of Layout Manager? Describe BorderLayout with example.

   (5) Write a Java program that takes the file name as command line argument and print file content on the screen.

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