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Total No. of Questions : 11]   [Total No. of Printed Pages : 7

RA-410

M.Sc. IIIʳᵈ Semester (New) Examination, 2019

Computer Science

Paper - MSCS -303

Programming Skills With Java

Time : 3 Hours]   [Maximum Marks : 85

Note :- Attempt all the questions.

SECTION - 'A'

Objective Type Questions   1×10=10

1. Choose the correct answer :

    (i)   What is the byte code?

    (a)   Code generated by Java Compiler

    (b).   Code generated by Source file

    (c)   Code generated by JVM

    (d)   Code Written within the instance of class

    (ii)   Which of the following is a feature of Java.

    (a)   Platform independent

    (b)   Compiled and Interpreted

    (c)   Multithreading

    (d).   All of the abvoe

    (iii) The compulsory Section of any Java Program is-

    (a)   Package import section

    (b)   Documentation section

    (c)   Main class definition section

    (d)   None of these

    (iv)   Which keyword is used for the block to handle the exceptions generated by try block?

    (a).   Catch

    (b)   Final

    (c)   Throw

    (d)   Try

RA–410

RA–410

(2)

(v) Which type of inheritance is not supported by classes in JAVA?

   (a)   Multilevel

   (b).   Multiple

   (c)   Hybrid

   (d)   Single

(vi) Which class must be sub classed (or extended) in java?

   (a).   Abstract class

   (b)   Parent class

   (c)   Final class

   (d)   None of these

(vii) Which is a technique in Java in which a class can have any number of constructors that differ in parameter lists?

   (a)   Constructor overloading

   (b).   Method overloading

   (c)   Operator overloading

   (d)   None of the above

(viii) Which access specifiers can be used for a class so that it's members can be accessed by a different class in the different package?

   (a)   Private

   (b).   Public

   (c)   Protected

   (d)   None of the above

(ix) Which is used to separate the hierarchy of the class while declaring an import statement?

   (a).   Package

   (b)   Applet

   (c)   Browser

   (d)   All of the above

(x) The following Syntax is used for?

Class subclass-name extends Superclass-name

{

   // methods and fields

}

   (a)   Polymorphism

   (b)   Encapsulation

   (c)   Inheritance

   (d)   None of the above

RA–410   (3)   P.T.O.

RA–410   (4)

SECTION - 'B'

Short Answer Type Questions 5×5=25

2. Name the five tools and their functions that are available in JDK.

OR

Differentiate between Java and C++

3. What are various built in Exceptions in Java?

OR

Explain various methods of Wrapper class

4. Explain TCP/IP and datagram programming.

OR

What is Thread sysnchronization?

5. Explain Adapter and Inner Classes in Java.

OR

How can you create and execute Java applets?

6. Write the short note JavaBeans.

OR

What do you mean by servlet and Cookies?

RA–410   (5)   P.T.O.

SECTION - 'C'

Long Answer Type Questions 10×5=50

7. What are final classes and Abstract classes? Explain each with example.

OR

Write the history and features of Java.

8. Describe the Exception handling mechanism with try-catch, finally block.

OR

What is an interface ? How multiple inheritance can be achieved through interface?

9. What is multithreading ? Explain the life-cycle of a Java thread and the methods associated with it.

OR

What are various Byte and Character Streams?

10. Write the difference between Applet and Apllication. Write an applet program to draw a filled rectangel and an oval (color = orange).

RA–410   (6)

OR

What are layout managers and menus? Discuss the Delegation Event Model.

11. Write the detail note on followings. (any **two**)

   (i)   JDBC Overview

   (ii)   Remote Mothod Invocation

   (iii) JINI overview

   (iv) JAR file handling

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RA–410   (7)   Copies 900