MAW-003-003407   Seat No. _____

B. C. A. (Sem. IV) (CBCS) Examination

March / April - 2018

CS-19 : Programming with Java
(Old Course)

Faculty Code : 003
Subject Code : 003407

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

Instructions : (1) There are 3 questions.
(2) All are compulsory.
(3) Give answer of all questions in main answer sheet.
(4) Mention your options clearly.

1   Attempt the following :   20
(1) Which type of class is not inherits in java?
(2) List out type of access specifies in java.
(3) When we create a float data type variable what is the default initial value?
(4) Where java language was developed?
(5) What is the use of javadoc ?
(6) Which keyword is used to pass the argument in base class constructor?
(7) Which function is used to convert string data type to integer data type?
(8) What will be the output of the program?

```
public class test
{
    public static void main(String[ ] args)
    {
        try {return;}
        finally {System.out.println("HELLO
            THIS IS TESTING");}
    }
}
```

(9) When any number divisible by zero which exception is generated ?

(10) How many bits are used to store short data type?

(11) Which method returns a random float value?

(12) What is the name of the method used to start a thread execution?

(13) List out two valid constructors for Thread.

(14) Which keyword is used to inherit one interface to another interface?

(15) All exceptions in java are handled by a _____ super class.

(16) Which package is needed to applet?

(17) What is the output for the following code?
```
public class test
{
        public static void main (String[ ] args)
        {
                String s1 = new String("this is testing");
                String s2 = new String(s1.substring(8,13));
                System.out.println(s2);
        }
}
```

(18) Which methods can be used to output a string in an applet?

(19) Which package is needed to use swing components?

(20) AWT means _____

2 Attempt the following :

(a) Write any three out of six :   6

   (i) What is stream in Java?

   (ii) Describe static and non static member.

   (iii) Explain wrapper class.

   (iv) Give the name of type of layout.

   (v) What is JVM?

   (vi) Explain abstract class.

(b) Write any three out of six: **9**

(i) What is constructor? Explain it.

(ii) Explain String class function.

(iii) Explain FileReader class.

(iv) Explain Jumping statements with example.

(v) Difference between AWT and Swing.

(vi) What is method? Explain method overloading.

(c) Write any two out of five: **10**

(i) Explain OOP concept in java.

(ii) Explain Vector class with example.

(iii) Explain Types of Array in java with example.

(iv) Write a program to get person name from the user side and write in the file.

(v) What is layout? Explain card layout with example.

3 Attempt the following :

(a) Write any three out of six : **6**

(i) Explain TextField class.

(ii) Define throw and throws.

(iii) What is event? List out type of events in java.

(iv) Explain final class in java.

(v) Explain Java tokens.

(vi) Explain JFrame.

(b) Write any three out of **six** : **9**

(i) What is applet? Explain applet life cycle.

(ii) Explain JCheckBox class.

(iii) What is HashTable? Explain it.

(iv) What is Exception Handling? How to create user define Exception ?

(v) Explain MouseEvent in detail.

(vi) Explain Graphics class.

(c) Write any two out of five: **10**

    (i) Explain Thread life cycle with example.

    (ii) Explain Event Delegation Model.

    (iii) How to create menu in swing explain with example.

    (iv) Write a program to check enter number is Armstrong or not.

    (v) Write a code for drawing smile face in applets.

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