

# **MCA-16/M.Sc.(IT)-13**

## **Pogramming in Java**

Master of Computer Applications/Master of Science in  
Information Technology (MCA/MSc.IT-11/12/16/17)

Fourth Semester Examination, 2019 (June)

**Time : 3 Hours]**

**Max. Marks : 80**

**Note :** This paper is of Eighty (80) marks divided into three (03) sections A, B and C. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION–A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains four (04) long answer type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

(2×19=38)

1. What are various techniques to handle Exceptions in Java?  
Explain with example.

2. Explain the following using suitable example:
  - (a) Predefined streams
  - (b) Static variable
  - (c) Vectors
  - (d) do-while statements
  
3. What are the different types of JDBC driver ? Explain each of them.
  
4. How can we implement multiple inheritance in Java? Explain with example.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains eight (08) short answer type questions of eight (08) marks each. Learners are required to answer any four (04) questions only. (4×8=32)

1. Explain the Java virtual Machine.
  
2. Explain the various looping statements with the help of example.

3. What are various types of arrays? Give syntax of creating each of them.
4. Write steps to create a package.
5. Why Exception handling is required? How it is done?
6. What is file handling in Java? Explain the stream classes?
7. Explain the use of applet class.
8. Differentiate between swing and AWT component.

**SECTION-C**  
**(Objective Type Questions)**

**Note :** Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this section are compulsory. (10×1=10)

1. Which of these values can a boolean variable contain?
  - (a) True & False
  - (b) 0 & 1
  - (c) Any integer value
  - (d) true.

2. Which of these have highest precedence?
- (a) ++
  - (b) ()
  - (c) \*
  - (d) >>.
3. String in java is a
- (a) object
  - (b) variable
  - (c) class
  - (d) character array.
4. Which of these can be overloaded ?
- (a) Methods
  - (b) Constructors
  - (c) All of the above
  - (d) None of the above.

5. Which is a reserved word in the java programming language ?

- (a) Method
- (b) Native
- (c) Subclasses
- (d) Array.

6. Public class test ( )

What is the prototype of the default constructor ?

- (a) Test ( )
- (b) Test (void)
- (c) public test ( )
- (d) public test (void).

7. What does AWT stands for ?

- (a) All window tools
- (b) All writing tools
- (c) Abstract window toolkit.
- (d) Abstract.

8. Which of these is necessary to specify at time of array initialization?
- (a) Row
  - (b) Column
  - (c) Both Row and column
  - (d) None of the above.
9. Which of these method of class string is used to obtain length of string object ?
- (a) get ( )
  - (b) size of ( )
  - (c) length of ( )
  - (d) length ( ).
10. Which of these keywords is used to make a class ?
- (a) Class
  - (b) Struct
  - (c) int
  - (d) None of the above.