



K19P 1373

Reg. No. :

Name :

**III Semester Master of Computer Application (M.C.A.)/ M.C.A. Lateral Entry
Degree (Reg./Suppl./Imp.) Examination, November - 2019**

(2014 Admission Onwards)

MCA 3C14 : PROGRAMMING IN JAVA

Time : 3 Hours

Max. Marks : 80

SECTION - A

Answer any **TEN** questions. Each question carries **THREE** marks.

(10x3=30)

1. Difference between procedural and object oriented language.
2. Explain the features of java.
3. What is the difference between a break statement and a continue statement?
4. What is the difference between the Boolean & operator and the & Operator?
5. How packages are imported in Java ? Explain the benefits of importing a package into user your program.
6. What is meant by garbage collection? How is it done in Java?
7. What is a Built-in Exception? Explain user-defined exceptions using a Java Program fragment.
8. Explain the concept of method overloading and method overriding with examples.
9. Write a Java program to read 10 names from the keyboard and sort them in Alphabetical order.
10. Mention the merits of the Serializable interface.
11. What are the field/method access levels (specifiers) and class access levels?
12. List out the significant features of the synchronization briefly.

P.T.O.

**SECTION - B**

Answer **all** questions. Each questions carries **ten** marks.

13. a) What is JVM? Explain how JAVA works on a typical computer.(10)

(OR)

b) Describe the Structure of a typical java program. (10)

14. a) Discuss the role of iteration statements of java with suitable example. (10)

(OR)

b) What are different types of inner classes? Explain with an example. (10)

15. a) Explain with an example how you can create a thread in java. (10)

(OR)

b) What are exceptions? Describe the exception handling mechanisms in java with a suitable example. (10)

16. a) Explain HTML applet tags with a suitable example. (10)

(OR)

b) Explain the working of graphics with suitable applet methods. (10)

17. a) What are different models of Event handling in java? Write a program to display the sum of two numbers of two textboxes with in third text boxes on clicking ADD button on the screen. (10)

(OR)

b) Write JDBC example for querying the database and processing the results. (10)
