M.C.A. Semester :- 3 Examination December-2019

Paper Code: 3607   Paper Title: Core Java

Time: 02:30 Hours   Marks: 70

Q.1   Answer any FIVE from the following: **[10]**

    a.   What do you mean by local variable and instance variable?

    b.   What is the use of update() method in applet?

    c.   Why is the main() method static?

    d.   What is the use of wait() and notify() methods in java ?

    e.   What is super in java?

    f.   What is the final class?

    g.   What if we write 'static public void' instead of 'public static void'?

Q.2   Answer any FIVE from the following: **[15]**

    a.   What are the advantages of packages in java?

    b.   What is the purpose of static methods and variables?

    c.   What are the differences between the constructors and methods?

    d.   Explain for each loop, break and continue statements with example.

    e.   List methods defined by InputStream class.

    f.   List methods of StringBuffer class.

    g.   Explain List with example.

Q.3   Answer any FIVE from the following: **[25]**

    a.   What is interface? Explain with example.

    b.   Explain Applet life cycle.

    c.   What is threading? How threading is performed in java?

    d.   Explain exception handling mechanism of java.

    e.   What is deadlock? When it occurs? Explain with example.

    f.   List features of java programming language.

    g.   Explain Character Extraction methods of Java.

2 7 DEC 2019

M.C.A. Semester :- 3 Examination December-2019

Paper Code: 3607   Paper Title: Core Java

Time: 02:30 Hours   Marks: 70

Q.4   Answer any TWO from the following: [20]

a.   Write a java code to multiply two 3 x 3 matrices by using object passing and object returning concept.

b.   Explain thread priorities and synchronization in threading with example.

c.   Write a java code snippet for following UDF functions.

1. filecpy (String src, String dest) : function will accept the source file name (with path) and destination filename (with path) and copies the content of first file into second file. (Creates new dest file if not exist otherwise overwrites it).

2. filecmp (String f1, String f2) : function will accept two file name and if both exist then compares the contents of both files, if content in both file is equal then function will return 0 else returns ASCII difference of the fist mismatch characters.