Total No. of Questions :8]   [Total No. of Printed Pages :2

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Roll No ....

MCA-405(B)
MCA. IV Semester
Examination, June 2017
Java Programming and Technologies
(Elective - I)
Time : Three Hours

Maximum Marks : 70

Note: i)   Attempt any five questions.
ii)   All questions carry equal marks.

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1. Develop a abstract Reservation class which has Reserve abstract method. Implement the sub-classes like Reserve Train and Reserve Bus classes and implement the same.

2. Develop an Interest interface which contains simple Interest and compInterest methods and static final field of Rate 25%. Write a class to implement those methods.

3. Explain the different methods supported in Object class with example.

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4. Develop an Employee class which implements the Comparable and Cloneable interfaces. Implement the sorting of persons (based on name in alphabetical). Also implements the shallow copy (for name and age) and deep copy (for Data Of Joining).

5. WAP to accept a string and count total capital and small letters in string and special characters.

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6. What is the basic difference between the 2 approaches to exception handling. Is it necessary that each try block must be followed by a catch block?

7. Use the array sort method to sort the given array.

8. Answer any four of the following:
    a)   Compare Garbage collection and finalize method.
    b)   Differentiate Abstract classes and interface.
    c)   What is synchronization and why is it important?
    d)   Why java is platform independent? What is Garbage
    e)   What is Byte code? What is difference between JDK and JRE?
    f)   How does String class differ from the String Buffer class?

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