MCA-16

June - Examination 2016

MCA IInd Year Examination

Programming in JAVA

Paper - MCA-16

Time : 3 Hours]   **[Max. Marks :- 80**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A $8 \times 2 = 16$

(Very Short Answer Questions)

Note: Answer **all** questions. Limit to 30 words.

1)   (i)   Which inheritance is not supported in Java and why?

  (ii)   What is interface in Java?

  (iii) What is package in Java?

  (iv) What is the basic difference between string and string buffer?

  (v)   Define nested class.

  (vi) Define garbage collection.

  (vii) What is wrapper classes?

  (viii) What is an applet?

Section - B $4 \times 8 = 32$

(Short Answer Questions)

Note: Answer **any four** questions. Limit to 200 words.

2)   Differentiate between public, private and protected access specifier in Java.

3)   What is variable? Define scope and lifetime of a variable.

4)   What is final variable, final method and final class?

5)   Define try, catch and finally block.

6)   Write a simple program to take input from user and display it.

7)   Write a program which uses the concept of class and object.

8)   Define an abstract class. Explain its purpose.

9)   What is swing? Describe any three component of swing.

Section - C $2 \times 16 = 32$

(Long Answer Questions)

Note: Answer **any two** questions. Limit to 500 words.

10) Explain all the top-down and bottom-up control statement with suitable program.

11) Write short notes on the following:

(i)   Multilevel inheritance

(ii)   Copy constructor

(iii) Two tier client sever model

(iv)   Java packages

12) Explain the following layout managers in Java:

    (i)   Border layout

    (ii) Flow layout

    (iii) Grid layout

    (iv) Card layout

13) Explain any five adapter classes and their listener interface.

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