Subject : Object Oriented Programming with C++

Day : Thursday   **S.D.E.** | | | | | | | Time : 10.00 AM TO 1.00 PM

Date : 08/12/2016   **33270**   Max Marks : 80   Total Pages : 1

N. B. :
1)   Attempt **ANY FIVE** questions from Section – **I**. Each question carries **10** marks.
2)   Attempt **ANY TWO** questions from Section –**II**. Each question carries **15** marks.
3)   Answers to both the sections should be written in the **SAME** answer book.

SECTION - I

Q. 1   Write detail note on object oriented approach? What are characteristics of **(10)** object oriented programming language?

Q. 2   What is Inheritance? Explain types of inheritance.   **(10)**

Q. 3   Explain operator overloading with example.   **(10)**

Q. 4   Write concept of functions. What are types of functions?   **(10)**

Q. 5   Explain file and streams with string I/0 and file pointer concepts.   **(10)**

Q. 6   What is polymorphism? Explain in brief function overloading concept.   **(10)**

Q. 7   Write short note on **ANY TWO** of the following: **(10)**

   a)   Friend function

   b)   Difference between pointers and references

   c)   Storage classes in C + +

SECTION - II

Q. 8   **a)**   Write C + + program to display first 100 odd numbers.   **(10)**

   b)   Write a C + + program to demonstrate inline function.   **(05)**

Q. 9   Explain in detail constructors and destructors with example.   **(15)**

Q.10   What is meant by virtual functions? Explain virtual function and pure virtual **(15)** function in brief.

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