Subject : Object Oriented Programming with C++

Day : Saturday

Date : 04/06/2016

S.D.E. 30140

Time : 10.00 AM TO 1.00 PM

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   What are the characteristics and features of object oriented programming language? **(10)**

Q. 2   What are types of functions? Explain in brief friend function. **(10)**

Q. 3   What are the concepts of objects and classes? Explain in brief constructors. **(10)**

Q. 4   What is the concept of operator overloading? Explain with example operator overloading. **(10)**

Q. 5   Write detail note on Inheritance. **(10)**

Q. 6   What is the meaning of virtual function? Explain in brief Abstract classes. **(10)**

Q. 7   Write short note on **ANY TWO** of the following: **(10)**
 a) Files and streams
 b) Polymorphism
 c) Control statements in C + +

SECTION - II

Q. 8   Write C + + program to accept the marks of 5 students and display the result PASS or FAIL. Find total marks and percentage of marks. **(15)**

Q. 9   Explain in brief operators in C + + and pointers in C + +. **(15)**

Q.10   Explain in detail encapsulation, pointer to objects with example. **(15)**

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