

S.D.E.
M.B.A. (IT) SEM – II (2010 COURSE) (3 YEAR COURSE) :
WINTER - 2017
SUBJECT : PROGRAMMING WITH C++

Day : **Wednesday**
Date : **13/12/2017**

W-2017-4347

Time : **02.00 P.M. TO 05.00 P.M.**
Max. Marks : 70

N.B.:

- 1) Attempt **ANY FOUR** questions from Section – I and **ANY TWO** questions from Section – II.
 - 2) Answers to both the sections should be written in **SEPARATE** answer books.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION – I

- Q.1** How does code reusability achieved in C++? Justify with suitable example. [10]
- Q.2** Describe concept of copy constructor in detail. [10]
- Q.3** Discuss ‘Operator Overloading’ with suitable example. [10]
- Q.4** What is inheritance in C++? Enlist various types of inheritance. [10]
- Q.5** Illustrate concept of Function with reference to: [10]
a) Virtual Functions b) Friend Functions.
- Q.6** Write short notes on **ANY TWO** of the following: [10]
a) Pointers in C++
b) Structure
c) Data encapsulation

SECTION – II

- Q.7** Describe concept of ‘Union’ in brief. Write a program to demonstrate ‘Union’ implementation. [15]
- Q.8** Write a C++ program to create file with name ‘abc.txt’. Apply Write() & Read() functions for entering data into file and reading data from file. [15]
- Q.9** Write a program to perform following operations: [15]
a) Accept number string from user.
b) Separate (sort) them as per their odd and even positions.
c) With the help of functions display their sum separately.
- Hint:**
i) The number string is 26375
ii) Numbers at even position : 6, 7
Numbers at odd position : 2, 3, 5
iii) Sum of even positions : 13
Sum of odd positions : 10