

## Sub : Object Oriented Programming

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QP CODE: 25308

[TOTAL MARKS: 80]

(3 Hours)

N.B.: 1) Question No. 1 is Compulsory

2) Attempt any four questions from Q.No.2 to Q.No. 7

Q1. (A) Write a program that reads a text file and creates another file that is identical except that every sequence of consecutive blank spaces is replaced by a single space. [10]

(B) What is a friend function? Explain its need in object oriented programming. [10]

Q2. (A) Explain the features of object oriented programming language. [08]

(B) Write a program to convert distance from meter to centimeter and centimeter to meter using object to object conversion. [07]

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Q3. (A) Define constructor and destructors in C++. Explain different types of constructors with example. [08]

(B) What is operator overloading? Explain with example how pre and post increment operators are overloaded. [07]

Q4. (A) Explain the use of try, catch and throw keywords with example. [08]

(B) What are the components of Standard Template Library? [07]

Q5. (A) What is Multipath inheritance? What ambiguity arises in it? How it can be resolved explain with example. [08]

(B) Explain pointers and virtual functions in C++ muadda.com [07]

[TURN OVER]

Q6. (A) What are manipulators? Write a program using any four manipulators that take a parameter. [08]

(B) Explain the function templates with multiple arguments with example. [07]

Q7. Write short notes on any THREE [15]

- a) Inline Functions.
- b) Constant data members and functions.
- c) New and Delete operator.
- d) Function Overriding. muadda.com

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