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SUBJECT CODE NO:- E-172
FACULTY OF ENGINEERING AND TECHNOLOGY
S.E.(CSE/IT) Examination Nov/Dec 2017
Object Oriented Programming Using C++
(OLD)

[Time: Three Hours]

[Max.Marks:80]

- N.B Please check whether you have got the right question paper.
- i) Q. No.1 from section A and Q. No.6 from section B are compulsory.
 - ii) Solve any two questions from each section from remaining.
 - iii) Assume suitable data, if necessary.

Section A

- Q.1 Solve any five: 10
- a) What are the features of OOPS?
 - b) What is difference between function overloading and function overriding in c++.
 - c) What is the friend function?
 - d) Define super keyword.
 - e) Define scope resolution operator.
 - f) What are the Access Specifiers in C++
 - g) What are the benefits of inheritance?
- Q.2 Explain the following concepts of OOP in detail with an example. 15
- a) Objects & Class
 - b) Inheritance
 - c) Polymorphism
- Q.3 a) Write a program in C++ based on following requirement 08
An EMPLOYEE class contains the following members:
Date Members: Employee_Number, Employee_Name, Basic, DA,IT, Net_Sal;
Member Function: to read data, to calculate Net_Sal and to print data memebrs;
Write a C++ program to read data on N employees and compute the Net_Sal of each employee (DA=52% of Basic and Income Tax=30% of the gross salary).
- b) What do you mean by inline function? Explain with example 07
- Q.4 a) What is inheritance? Explain multiple inheritance with example. 08
b) Write a program to swap two numbers using call by value & call by reference. 07
- Q.5 a) Explain Constructor and its type with example. 08
b) Explain virtual base class with suitable example. 07

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SECTION B

- Q.6 Solve any five: 10
- a) What are three components of STL.
 - b) Define early and late binding?
 - c) Define fstream with example
 - d) What is “this”?
 - e) Define template
 - f) What is abstract class?
 - g) What is divided by zero exception?
 - h) Define containers?
- Q.7 08
- a) Write short note on new and delete operators.
 - b) Explain virtual base class with suitable example. 07
- Q.8 08
- a) Write a program to illustrate the concept of exception handling
 - b) Explain the concept of command line arguments with example 07
- Q.9 08
- a) Write a c++ program to read a file name and display the content of file on screen
 - b) Explain the concept of vectors in STL with example. 07
- Q.10 08
- a) Explain the concept of visibility mode in inheritance with example.
 - b) Write a short note on “I/O manipulation”. 07