4453

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL-2019
DCME - FOURTH SEMESTER EXAMINATION

OOPS THROUGH C++

Time: 3 Hours   Max. Marks: 80

PART-A

10x3=30M

Instructions: 1) Answer **all** questions.

2) Each question carries **three** marks.

3) Answer should be brief and straight to the point and shall not exceed five simple points.

1) Write any three differences between structure and class.   3M

2) Write the need of using a constructor in c++?   3M

3) Define a friend function.   3M

4) What is polymorphism?   3M

5) What is a reference variable? Write syntax of a reference variable.2+1

6) List the different types of access modes.   3M

7) What is hierarchial inheritance?   3M

8) What is meant by reusability in inheritance?   3M

9) Write about manipulators.   3M

10) Define a template. Write the syntax of a template.   2+1

5x10=50M

Instructions: 1) Answer any **five** questions.
  2) Each questions carries **ten** marks.
  3) Answer should be comprehensive and the crietrion for valuation is the content but not the length of the answer.

11) a) Write a c++ program using scope resolution operator.　　5M

　　b) Write a c++program using inline function.　　5M

12) Explain the function of overloading with an example program.　10M

13) Write a c++ program that illustrates the concept of returing objects from functions.　　10M

14) Explain the concept of dynamic memory allocation and deallocatin mechanism in c++.　　10M

15) Explain the different types of inheritances.　　10M

16) Write a c++ program that illustrates the concept of virtual function.

　　10M

17) Explain about file I/O functions.　　10M

18) Write a c++ program that illustrates the concept of class template.

　　10M

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