4453

BOARD DIPLOMA EXAMINATION, (C-14)
OCT / NOV-2017
DCHST-FOURTH SEMESTER EXAMINATION

OOPS THROUGH C++

Time : 3 Hours]   [Total Marks : 80

PART - A   3 x 10 = 30

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

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

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Write the differences between C and C++.

2. What is a Comment in C++? How to write Comments in C++?

3. What is Operator Overloading?

4. List any four advantages of OOP.

5. What are *new* and *delete* operators?

6. State the relationship between Base Class and Derived Class.

7. What are the different inheritance visibility modes supported by C++?

8. What is Single Inheritance? Give an example.

9. List the C++ Streams.

10. What is Function Template and how it is declared?

<div align="center">

PART - B   10 x 5 = 50

</div>

Instructions : (1) Answer any **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation is the content but not the length of the answer.

11. Explain Constructor and Destructor using an example program.

12. What is a friend function? Explain with an example program.

13. What is Inline Function? Explain with an example program.

14. Explain creating and accessing of array of objects with an example program.

15. Write a C++ program on multiple Inheritance.

16. a) Write a C++ program on Pure virtual Functions.

b) List the applications of virtual functions.

17. Explain formatted I/O functions with examples.

18. Explain the Class Template for Stack Data Structure.

<div align="center">

* * *

</div>