## B.Sc. (I. T.) Sem. - II (2011 Course): WINTER - 2018 SUBJECT: OOP USING C++

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**Q.**7

10.00 am to 12.00 Noon Time: Day: Saturday W-2018-1098 Date: Max. Marks: 40 24/11/2018 N.B: 1) Attempt ANY FIVE full questions. 2) Figures to the right indicate FULL marks. Q.1 Explain Any Four features of object - oriented programming language. (08) Elaborate with examples using C++. What is meant by static member? What is the purpose of declaring a member (04) Q.2 a) as static? b) Explain the usage and limitations of a static class. Illustrate with C++ example. (04)What is meant by typecasting? Explain its various types with C++ examples. (04)Q.3 a) b) What is meant by operator overloading? Illustrate an example of unary (04)operator overloading in C++. Describe the purpose and usage of abstract class in C++, using code snippet (04) Q.4 a) example. b) Explain the various access specifiers used in C++. Also list out the default (04) access specifier. Write a C++ program to demonstrate multiple and multi-level Inheritance. (08) Q.5 Explain the C++ feature used and also indicate the output. Write a C++ program to demonstrate use of friend function. Explain the C++ (08) **Q.6** feature used and also indicate the output.

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Write a C++ program to demonstrate use of copy constructor. Explain the C++ (08)

feature used and also indicate the output.