

**S.Y.B.SC. (Computer Science) SEM –III (2014 COURSE) : WINTER -
2018**

SUBJECT: OBJECT ORIENTED PROGRAMMING IN C++

Day: Tuesday
Date: 09/10/2018

W-2018-0953

Time: 12.00 NOON TO 02.00 PM
Max. Marks: 40

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q1 Answer **ANY TWO** of the following- **[10]**

- a) State features of Object Oriented Programming paradigms.
- b) Write a C++ program to show how the members of a private class are accessed using friend function.
- c) Describe the concept of function overloading in detail.

Q2 Answer **ANY TWO** of the following- **[10]**

- a) What is multiple inheritance? Explain with the help of suitable example.
- b) Explain an array of objects with the help of an example.
- c) What is inline function? Write a inline function to find cube of a number.

Q3 Answer **ANY TWO** of the following- **[10]**

- a) Write a note on C++ manipulators.
- b) Write a C++ program to overload a unary operator ++.
- c) Differentiate between constructor and destructor.

Q4 Answer **ANY FIVE** of the following- **[10]**

- a) What is virtual base class?
- b) State various rules used for operator overloading.
- c) Differentiate between early binding and late binding.
- d) Define 'this' pointer.
- e) What is static class member?
- f) Discuss new and delete operators.
- g) Define polymorphism. Give its types.

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