

S.Y.B.SC. (COMPUTER SCIENCE) SEM -III (2014 COURSE) :
WINTER - 2017

SUBJECT: OBJECT ORIENTED PROGRAMMING IN C++

Day: Tuesday
Date: 24/10/2017

W-2017-0743

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) Differentiate between procedure oriented programming and object oriented programming paradigms.
 - b) Describe various logical operators supported by C++ with syntax and example.
 - c) Write a C++ program using parameterized constructor to find multiplication of two numbers.
- Q2** Answer **ANY TWO** of the following- **[10]**
- a) Write a C++ program to accept and display five employee records using array of objects.
 - b) Define Polymorphism. Elaborate the concept of run time polymorphism and compile time polymorphism.
 - c) Write a note on I/O manipulators supported by C++.
- Q3** Answer **ANY TWO** of the following- **[10]**
- a) What is meant by function overloading? Give syntax of operator overloading function.
 - b) Write a C++ program to swap the contents of two variables using call by value and call by reference.
 - c) Write a C++ program to find GCD and LCM of two numbers.
- Q4** Answer **ANY FIVE** of the following- **[10]**
- a) Define Encapsulation.
 - b) What is pure virtual function?
 - c) Write a recursive function to find factorial of a number.
 - d) What is inline function?
 - e) List operators which cannot be overloaded.
 - f) What are stream classes?
 - g) Give two ways used to access the member functions of a class.