

S.Y. B. SC. (Computer Science) SEM –III (CBCS - 2016 COURSE) :

SUMMER - 2019

SUBJECT : OBJECT ORIENTED PROGRAMMING WITH C++

Day : Friday
Date : 03/05/2019

Time : 03.00 PM TO 06.00 PM
Max. Marks :60

S-2019-1088

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 **(12)**

- a) Write a C++ program to overload binary operator '+'.
b) Explain virtual function with the help of suitable example.
c) Write a C++ program to show the usage of friend function.

Q2. Answer Any **TWO** of the following **(12)**

- a) Write a C++ program to accept and display 10 employee records.
b) Explain different types of inheritance with the help of appropriate diagrams.
c) Write a C++ program to show the usage of Constructor and Destructor.

Q3. Answer Any **TWO** of the following **(12)**

- a) Describe various features of Object Oriented Programming in detail.
b) Compare and contrast - Early binding and Late binding.
c) What is Inline function? Write a C++ program to calculate the area of a circle using inline function.

Q4. Answer Any **THREE** of the following **(12)**

- a) Illustrate the syntax and example of While loop with example.
b) What is the role of <iostream.h> file in C++. List any two header files used in C++.
c) What is Recursion? Write a C++ program to find factorial of a number using recursion.
d) What do you mean by new and delete operators?

Q5. Answer Any **FOUR** of the following **(12)**

- a) What is Scope Resolution Operator? Explain its usage with example.
b) What is meant by abstract class?
c) Discuss various logical operators in C++.
d) Write a C++ program to count total number of vowels in a string.
e) Explain the usage of Switch case with example.
f) Explain the use of 'this' pointer.

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