

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

BCA (2013 & Onward)/B.Sc. (IT) (2015 & Onward)
(Sem.-2)

OOPS USING C++

Subject Code : BSBC/BSIT-203

Paper ID : [B1115]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and a student has to attempt any **FOUR** questions.

SECTION-A

Q1 Answer briefly :

- a) List various features of object oriented programming language.
- b) What is early and late binding?
- c) Define structure and union.
- d) What is object and class?
- e) What are various characteristics of a pointer variable?
- f) What is static member function?
- g) Write a C++ program to swap two numbers without using third variable.
- h) Differentiate union and class.
- i) Define binary operator overloading.
- j) What is pure virtual function?

SECTION-B

- Q2 What is data hiding and encapsulation? How it is implemented using C++? Explain with example.
- Q3 Define Constructor. What are its different types? Explain with suitable example.
- Q4 What is function and operator overloading? Write and explain a C++ program to demonstrate the concept of unary operator overloading.
- Q5 Discuss the role of streams, buffers and files by taking suitable example in C++.
- Q6 Write notes on the following :
- a) Array of structure
 - b) Need and types of inheritance
- Q7 What are friend and inline functions? Explain with example.