

**BCA(Sem.-2nd)
OOPS Using C++
Subject Code:BSBC-203**

Time: 03 Hours

Maximum Marks:60

Instructions to Candidates:

1. Section- A is **Compulsory**.
2. Attempt any **Four** questions from Section-B.

Section-A

Q1)

(10x2=20)

- a) Define array of structure.
- b) What do you mean by array within a class?
- c) What is encapsulation?
- d) What is pure virtual function?
- e) Discuss the purpose of header files.
- f) What is the use of random file processing?
- g) What is use of destructor?
- h) What is operator overloading?
- i) What do you mean by inline function?
- j) What is static member function?

Section-B

(4x10=40)

Q2) Discuss various control structures with the help of examples.

Q3) Explain the various characteristics of an Object Oriented Programming with the structure of C++.

Q4)What is the difference between friend function and friend class? Demonstrate both with the help of example.

Q5)What is constructor? What are the different type of constructor are used in a class? Explain with the help of example.

Q6) What are the various operations that can be performed on files? Explain the various modes of file handling while opening a file with an example of each.

Q7) Write short notes on:

- a) Container class
- b) Types of derivations.

————— End —————