

BCA 3rd Semester Exam., 2021

OBJECT-ORIENTED PROGRAMMING
USING C++

Time : 3 hours

Full Marks : 60

Instructions :

- (i) The marks are indicated in the right-hand margin.
 (ii) There are **SEVEN** questions in this paper.
 (iii) Attempt **FIVE** questions in all.
 (iv) Question Nos. **1** and **2** are compulsory.

1. Answer any six questions : $2 \times 6 = 12$

- (a) How to define polymorphism?
 (b) Define pointers.
 (c) How to use delete operator?
 (d) What is increment and decrement operator?
 (e) How constructor differs from member functions?
 (f) What is base class?

- (g) What is pure virtual function?
 (h) What is the use of flush() function?
 (i) What is overloading?
 (j) What is function?

2. Answer any three of the following : $4 \times 3 = 12$

- (a) Explain function prototyping with an example.
 (b) Differentiate between procedure-oriented and object-oriented programming.
 (c) Explain inline functions.
 (d) What is a friend function? Why is it required?
 (e) Explain the virtual destructor.

3. Explain different types of inheritance with block diagram and an example for each. 12

4. What is the benefit of copy constructor? Explain the necessity of defining your own copy constructor. 12

5. Demonstrate with C++ program for (i) passing objects to functions (ii) returning object. 12
6. Explain error handling and manipulators in C++? 12
7. Explain different file operations? 12
