

U.G. 3rd Semester Examination 2021

Computer Application (B.C.A)

(Honours)

Paper Code - DC-7(a)

Object Oriented Programming with C++

[CBCS]

Full Marks: 25

Time: 2 hours

The figures in the margin indicate full marks.

Group -A

(2 x5 = 10)

Answer any five questions.

1. a. How macro is different from function? Explain with an example.
- b. Write the advantages of using template class in C++.
- c. What is an Inline function in C++?
- d. What is a Reference Variable in C++?
- e. State some differences between Class and Structure.
- f. What are the access specifiers supported by C++?

Group -B

(5 X 3 = 15)

Answer any three questions.

2. Explain the concept of virtual function in C++ with example. 5
3. Explain the advantages of using abstract class in C++. 5
4. What is Constructor? Explain types of Constructor with example. (1+4)=5
5. Which operators cannot be overloaded in C++? Write a function to overload '+' operator so that it can add two complex numbers. (1+4)=5
6. What is exception handling? Write a program using C++ that demonstrates exception handling by implementing a stack.

(1+4)=5