

31/09/22

1478/II

B.C.A. (PART-I) 2nd Semester Examination-2022

B.C.A.

(Introduction to Object Oriented

Programming & C⁺⁺)

Paper : BCA-204

Time : Three Hours] [Maximum Marks : 70

- Note:** (i) Answer **five** questions in all.
- (ii) Question **No. 1** is compulsory.
- (iii) Answer two questions from section **A** and **B** each.
- (iv) All question carry equal marks.

1. Answer all parts of the following:

- (a) What do you mean by oops?
- (b) Define class and object.
- (c) Define and explain Function with default parameters.
- (d) What do you mean by static member function?

Section-A

2. What do you mean by Inheritance in object oriented programming? Explain types of inheritance supported by C++.
3. Explain Function overloading with proper example.
4. Write a program in C++ to check whether a given number is prime or not using the below mentioned class definition.

Class Prime

```
{  
    int num;  
    public:  
    void input (int x);  
    void check PRIME ();  
};
```

5. What do you mean by inline function in C++. Explain with example.

Section-B

6. (a) Explain constructors. Explain the order of constructor call in multilevel inheritance with example.
(b) What do you mean by Friend function?
7. (a) Write a C++ program to print all the factors of a given input number.
(b) What do you mean by type conversion? Explain all the types of conversion supported by C++.
8. (a) Explain the various access specifier. Give clear differentiation between private and protected access specifier.
(b) Explain operator overloading with proper example.
9. Write notes on any two of the following:
 - (a) Destructors in C++
 - (b) Boolean data type
 - (c) Scope Resolution Operator

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