

Seat	
No.	

Set: A
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**B.C.A. (Part-I) (Semester-II) (CBCS/NEP)**

**Examination Oct./Nov 2023.**

**College Name : Kamala College ,Kolhapur**

**Subject Name : Object Oriented Programming Using C++**

**Subject Code : 80870**

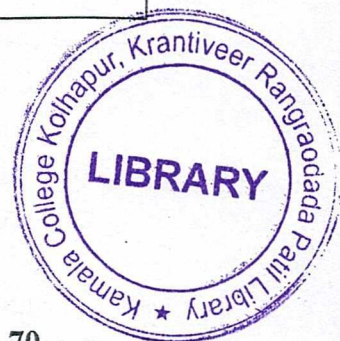
**Total Marks: 70**

**Day and Date: Thursday 02/11/2023**

**Period : 3 hours**

**Time: 12.00 p.m. to 03.00 p.m.**

**Total Pages: 02**



**Instructions:**

1. Que.1 and Que. 6 are compulsory and attempt any three Questions from Que. No. 2 to Que. No. 5
2. Figures to the right indicate marks.

Q 1) a. Multiple Choice Questions.

[10]

1) Which of the following operator is used to return the address of a variable?

- a. \*      b. ->      c. &      d. None of the above

2) Which of the following operator is known as Scope Resolution Operator?

- a. ::      b. ?:      c. ->      d. .

3) The cin, cout are \_\_\_\_.

- a. Library functions      b. structures      c. Pointers      d. objects

4) Which of the following header file is used to define cin, cout?

- a. <iomanip.h>      b. <iostream.h>      c. <fstream.h>      d. None of the above

5) C++ language is a \_\_\_\_.

- a. Object Oriented Language      b. Procedural Oriented Language  
b. Structural Oriented Language      d. None of the above

6) Which of the following refers to using the existing code instead of rewriting it?

- a. Inheritance      b. Encapsulation      c. Abstraction      d. Both A and B

7) Which of the following is not a kind of inheritance?

- a. Distributed      b. Multiple      c. Multi-level      d. Hierarchical



8) Which of the following statements is correct about the friend function in C++ programming language?

- a. A friend function is able to access private members of a class
- b. A friend function can access the private members of a class
- c. A friend function is able to access the public members of a class
- d. All of the above

9) Which of the following can be considered as the members that can be inherited but not accessible in any class?

- a. Public
- b. Protected
- c. Private
- d. Both A and C

10) Which of the following is the original creator of the C++ language?

- a. Dennis Ritchie
- b. Ken Thompson
- c. Bjarne Stroustrup
- d. Brian Kernighan

Q1) b. Short answer questions (Any two out of three). [10]

- 1) Explain static data member with suitable example?
- 2) Explain different iterative statements in C++?
- 3) Explain scope resolution operator in C++.

Q2) What is constructor ? Explain different types of inheritance with its Syntax and example? [10]

Q3) What is inheritance? Explain different types of inheritance with its syntax and example. [10]

Q4) Explain function overloading with suitable example [10]

Q5) What is polymorphism? Explain runtime polymorphism with suitable example. [10]

Q6) Write short notes on. (Any Four out of Six) [20]

- 1) Private and Public
- 2) Characteristics of OOP
- 3) Virtual Function
- 4) Friend Function
- 5) Cin & Cout
- 6) File opening modes

