

(For the candidates admitted from 2017-2018 onwards)

M.Com. (C.A.) DEGREE EXAMINATION,  
APRIL/MAY 2018.

First Semester

PROGRAMMING IN C++

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) List a few areas of applications of OOP technology.

Or

- (b) What are the advantages of object oriented programming?

2. (a) What is an expression? How is an expression different from the variables?

Or

- (b) What is “while loop” and how does it vary from the “for loop”

3. (a) What are objects? How are they created?

Or

(b) How is a member function of a class defined?

4. (a) List out the rules for overloading operators.

Or

(b) What does inheritance mean in C++?

5. (a) How would you update a file?

Or

(b) Why do we need virtual functions?

PART B — (5 × 10 = 50 marks)

Answer ALL the questions.

6. (a) Describe the major parts of a C++ program.

Or

(b) Explain the main features of C++ program.

7. (a) What are the various standard manipulators used in C++?

Or

(b) When will you make a function "inline"? Why? Discuss.

8. (a) What is a friend function? What are the merits and demerits of using friend functions?

Or

(b) Can we have more than one constructors in a class? If yes, explain the need for such a situation.

9. (a) Describe the syntax of multiple inheritance. When do we use such an inheritance?

Or

(b) A friend function cannot be used to overload the assignment operator =. Explain why?

10. (a) When do we make a virtual function "pure"? What are the implications of making a function a pure virtual function?

Or

(b) Explain the various functions involved in opening and closing a sequential file in C++.