11. With an example, explain the order of invocation of constructors and destructors in multiple inheritance.

12. Define the following :

    (i) Data Hiding

    (ii) Protected and Private access specifiers

13. Explain the following :

    (i) Abstract class

    (ii) Final Class

BCA-10

December – Examination 2022

BCA (Part II) Examination

Object Oriented Programming in C++

Paper : BCA-10

*Time : **3** Hours*] [*Maximum Marks : **70***

Note :– The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section–A **7×2=14**

(Very Short Answer Type Questions)

Note :– Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i) Define Reference Variable.

(ii) What is Inline Function ?

(iii) What is Friend Class ?

(iv) Define Output Stream.

(v) What is role of :: Operator ?

(vi) What is the role of 'Default' Label in switch case ?

(vii) What is 'this' Pointer ?

Section–B **4×7=28**

(Short Answer Type Questions)

Note :– Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 7 marks.

2. Define Exceptional Handling. Explain the use of try, catch and throw.

3. Explain the use of ifstream and ofstream classes for file input and output.

4. What is Runtime Polymorphism ? Explain with writing a C++ program.

5. Write C++ program illustrating the use of New and Delete Operators.

6. What is operator overloading ? Define insertion operator.

7. Define Constructor and Copy Constructor.

8. Define Virtual Function.

9. Explain Message Passing.

Section–C **2×14=28**

(Long Answer Type Questions)

Note :– Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 14 marks.

10. Differentiate between Function Overloading and Function Templates. Can we overload a function template illustrate with example.