2706-A

B.C.A. SECOND YEAR EXAMINATION, 2019
OBJECT ORIENTED PROGRAMMING
CONCEPTS (THROUGH C++)

Time: Three Hours

Maximum Marks: 100

Answer of all the questions (short answer as well as descriptive) are to be given in the main answer-book only. Answers of short answer type questions must be given in sequential order. Similarly, all the parts of one question of descriptive part should be answered at one place in the answer-book. One complete question should not be answered at different places in the answer-book. Write your roll numbers on question paper before start writing answers of questions.

Question paper consists of three parts.

All THREE parts are compulsory.

PART – A   [Marks: 20]

(Very Short Answer)

*Consists 10 question of **two marks** each.*

*Maximum limit for each question is up to **40** words.*

PART – B   [Marks: 20]

(Short Answer)

*Consists 5 question of **four marks** each.*

*Maximum limit for each question is up to **80** words.*

PART – C   [Marks: 60]

(Long Answer)

*Consists 5 question of **twelve marks** each with internal choice.*

PART – A

Write answer in short -

Q.1 Define : Class, also give an example.

Q.2 What is user defined data type? Give an example.

Q.3 Discuss C++ tokens with suitable examples.

Q.4 Write rules to form a variable in C++.

Q.5 Explain : this pointer.

Q.6 List various types of Constructors.

Q.7 List various types of Inheritance.

Q.8 What is derived class? Give an example.

Q.9 Distinguish between Sequential data file and Random data file.

Q.10 What is Template?

PART – B

Write answers for the following -

Q.1 Discuss various advantages of OOP.

Q.2 What is an Array? List and explain various types of arrays in C++.

Q.3 Explain friend function taking suitable example.

Q.4 Differentiate between constructor and destructor.

Q.5 Discuss exception handling in detail.

PART – C

Write answers for the following-

Q.1 Discuss evolution of OOP. Also, list and explain various characteristics of object oriented language.

Q.2 Write a detailed note on pointers in C++. Give appropriate examples.

Q.3 Explain how to define member functions. Also explain how to access them taking suitable example.

Q.4 Write a note on Polymorphism.

Q.5 Explain various types of operations on files taking suitable examples.