C

(Printed Pages 2)

22/2099

B.C.A Examination, 2022

Third Semester

First Paper

(Object Oriented Programming Using C++)

Time : 1.30 Hours]　　　　　[Maximum Marks : 75

Note : Attempt any **five** questions. **All** questions carry equal marks. Limit the answers of each of the question to 250 words only.

1. Explain the elements of Object oriented programming. What are the benefits of Object oriented programming? 15

2. Define class and object. Explain with example the method of defining a class and constructor in C++. 15

P.T.O.

3. Explain the various looping and conditional constructs in C++ with example. 15

4. What is an Abstract Class? Explain friend function with suitable example. 15

5. What do you mean by function overloading? Differentiate between overloading and overriding with the help of an example. 15

6. Write short notes on: 15

   (a) Exception handling

   (b) Runtime polymorphism

   (c) Garbage Collection

7. Differentiate between Single and Multiple Inheritance with suitable example. 15

8. Explain the various access specifiers in C++. 15

9. Write a program in C++ to create a file name student. dat. Input names of the student in it and then print the names of the students from this file. 15

2