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B.C.A. (Part II) Examination, 2022

(Old Course)

PAPER FIFTH

Programming in C++ and Visual C++

(203)

Time : Three Hours] [*Maximum Marks :100*

[*Minimum Pass Marks : 40*

Note :Attempt any two parts from each unit. All questions carry equal marks.

Unit - I

1. (a) What is Object Oriented Programming? Write the advantages of object oriented programming.

   (b) What do you mean by overloading in C++? Explain with example.

   (c) Write a C++ program that displays PRIME numbers between 1 to 20.

Unit - II

2. (a) Explain the concept of abstract class.

   (b) Explain the use of static data member of a class.

   (c) Differentiate function overloading and function overriding with example.

Unit -III

3. (a) Explain use of friend function with the help of suitable example.

   (b) Discuss the looping statements available in C++.

   (c) Define pointer. Write the importance of pointer with example.

Unit - IV

4. (a) Describe the architecture of object oriented databases.

    (b)   Discuss Booch methodology with appropriate example.

    (c)   Write the note on object type and relationship type.

Unit - V

5. (a)   What are the advantages and disadvantages of VC^{++} over any other object oriented language? Explain with suitable example.

    (b)   How a message box can be added? Explain it with the help of MFS.

    (c)   Discuss different types of brushes and how are these created?

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