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F - 3717

B. Sc. (Part - II) Examination, 2022
(Old/New Course)
Information Technology
Paper Second

Time : Three Hours]   *[Maximum Marks:50*

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

Unit - I

1. (A) What are the characteristics of object oriented language?

   (B) Explain class and object concept by giving an example of program.

   (C) Write a program in C++ to print Fibonacci se-

ries up to given range.

Unit - II

2. (A) What do you mean by function? Write a program in C++ to calculate simple interest.

   (B) What do you understand by function overloading? Write a program to find area of circle and triangle using concept of function overloading.

   (C) Write short notes on: -

   (i) Inline function

   (ii) Default arguments in function

Unit - III

3. (A) What is constructor? Explain the types of constructor.

   (B) What is operator overloading? Write a program to overload c++ operator.

   (C) Write short notes on following :

   (i)   Friend function

   (ii) struct and classes

Unit - IV

4. (A) Explain virtual and pure virtual function with example.

    (B) Write a program to swap two numbers using pointer in C++

    (C) What is this pointer? Explain using suitable example.

Unit - V

5. (A) What is C++ streams and stream class?

    (B) Describe C++ manipulators

    (C) Explain I/0 with multiple objects in C+ +.