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B. E. (Fourth Semester) Examination ~~2020~~
APR-MAY 2022
(New Scheme)

(IT Branch)

OBJECT ORIENTED CONCEPTS & PROGRAMMING using C++

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : First part of each question is compulsory and attempt any two part from rest.

Unit - I

1. (a) What is Class and Object?   2

   (b) What is a Class? How does a class accomplish abstraction, encapsulation and data hiding?   7

(c) What is Abstraction? Write a program to demonstrate abstraction. 7

(d) Write the difference between procedural programming paradigm and object-oriented programming paradigm. 7

Unit - II

2. (a) What is Inline Function? 2

(b) Explain Friend Function. Create a class A with integer data member a, class B with integer data number b, class C with integer data member C. Write a function to find the average of class a, b and c. 7

(c) Explain the concept of Nested class with example. 7

(d) Define a class cricket. Enter all records according to given table and display all records with average of the batsman : 7

Player's name	Runs	Innings	Total time of Not Out
Rohit Sharma	15080	187	23
AB Develliers	10130	160	15

Unit - III

3. (a) What is Pointer? 2

(b) How we can initialize pointer and also explain various types of pointer? 7

(c) Write a program to implement default, parameterized and copy constructor. Also release memory occupied by the constructor. 7

(d) What is this pointer? Write a program to demonstrate this pointer. 7

Unit - IV

4. (a) What is Overloading? 2

(b) Write a program to compare 2 string using overload == operator. 7

(c) What is Ambiguity? How can we solve this problem? 7

(d) Write a program to find complex number using overload + operator. 7

Unit - V

5. (a) What is Binding   2

   (b) Write a program implement virtual function.   7

   (c) Explain exception handling with suitable program.   7

   (d) What do you mean by the term Generic Programming
       with example?   7