



CBCS SCHEME

17EC562

Fifth Semester B.E. Degree Examination, Jan./Feb. 2021 Object Oriented Programming using C++

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Write the Difference between structures and unions. (05 Marks)
- b. Write C++ program to perform the addition of even number and odd number for the range 1 to N, the N value is accepted from keyboard. (10 Marks)
- c. Define reference variable. Write a program to illustrate the reference variable. (05 Marks)

OR

- 2 a. Write C++ program to enter four number from keyboard and perform the average of four numbers. (05 Marks)
- b. Write the syntax for the switch and if-else control statement. Write C++ program to illustrate the while loop. (10 Marks)
- c. Define Dynamic Memory allocation. Explain 'new' and 'delete' operator with C++ program. (05 Marks)

Module-2

- 3 a. Write C++ program to Swapping (Exchange) of two numbers by using call by reference with pointer as a argument. (10 Marks)
- b. Write C++ program to find the square of number by using inline function. (05 Marks)
- c. Write C++ program to find the factorial of number by using Recursion function. (05 Marks)

OR

- 4 a. Write C++ program to illustrate Arrays of Objects, the name of class is employee which contain data member such name and age. (10 Marks)
- b. Write C++ program to perform the Addition of Data objects of two different classes by using friend function. (10 Marks)

Module-3

- 5 a. Define Constructor. Write C++ program to illustrate the copy constructor. (06 Marks)
- b. Write the difference between constructor and destructor. (04 Marks)
- c. Write C++ program to calculate the area of Triangle, the program contain two data members such as height and base, use constructor to initialize the data members and display the result by using display () member function. (10 Marks)

OR

- 6 a. Write C++ program to illustrate the unary minus (-) operator overloading and write C++ program for binary plus (+) operator overloading. (10 Marks)
- b. Define destructor. Write C++ program to illustrate the destructor. (10 Marks)

Module-4

- 7 a. Define Inheritance. Explain single Inheritance with public visibility mode program. (10 Marks)
b. Explain Multiple Inheritances. Write C++ program to illustrate multiple inheritance. (10 Marks)

OR

- 8 a. Write C++ program to illustrate this pointer, the class name is person and their respective data member such as "name" and "age". (10 Marks)
b. What is virtual function? Mention the rules of virtual function. Write a program to illustrate virtual function. (10 Marks)

Module-5

- 9 a. Write C++ program to illustrate the get() and put() unformatted I/O operation function. (05 Marks)
b. Write C++ program for Reading String by using getline() unformatted I/O operation function. (05 Marks)
c. What is C++ stream? Explain stream classes for consol I/O operations. (10 Marks)

OR

- 10 a. What are the input and output streams? Write a program to illustrate writing and reading of data from single file. (10 Marks)
b. Explain about EOF (End Of File). (04 Marks)
c. Explain the classes for file stream operations. (06 Marks)
