

COURSE : CM/IF SEM: FOURTH SUBJECT : OOP

Chapter 1:

- 1) List any four features of procedure oriented programming. (4 marks)
- 2) Differentiate between OOP and POP. (3 marks)
- 3) List any four basic concepts of object oriented programming. (4 marks)
- 4) Explain data encapsulation and data abstraction. (3 marks)
- 5) Write any four benefits of object oriented programming. (4 marks)
- 6) List any four object oriented programming languages. (4 marks)
- 7) Which are input and output operator in C++. Give it's examples. (3 marks)

Chapter 2:

- 1) What is class? Give its example.(3 marks)
- 2) How member functions of the class are defined? Give its example. (4 marks)
- 3) Describe memory allocation for objects. (4 marks)
- 4) Explain array of Objects with example. (4 marks)
- 5) Explain objects as function argument. (4 marks)
- 6) List any four features of static member function. (4 marks)
- 7) List any four features of static data member. (4 marks)
- 8) Write characteristics of friend function. (3 marks)
- 9) Describe the access specifier used in C++.(3 marks)
- 10) Compare structure and class. (4 marks)
- 11) What is object ? How they are created? (3 marks)
- 12) Explain new and delete. (3 marks)
- 13) Explain get() and put().(4 marks)
- 14) WAP in C++ to generate a Fibonacci series of 'n' numbers. (3 marks)
- 15) WAP to define a structure 'Tender' having data members tender_no, cost and company_name. Accept and display data for one variable of this structure. (4 marks)
- 16) WAP to declare a class student having data members as roll number, name and percentage of marks. Read data for 5 students and display data of student having higher percentage of marks. (4 marks)
- 17) WAP to declare a class having data members principle, duration and rate of interest. Declare rate of interest as static member variable. Calculate the simple interest and display it. (4 marks)
- 18) Write a program to create two classes test1 and test2 which stores marks of student. Read values for class objects and calculate average of two tests. (4 marks)

Chap 3

- Q. 1 Give any four characteristics of Constructor.
- Q.2 Explain Parameterized Constructor with syntax.
- Q.3 Explain the concept of constructor with Default argument.
- Q. 4 What is Destructor? How many Destructor can be defined in a single class?
- Q.5 Differentiate between Constructor and Destructor.
- Q.6 What is Copy Constructor?

Chap 4

- Q.1 Describe the purpose of Protected access specifier used in C++.
- Q.2 List different types of Inheritance.
- Q. 3 State and explain the various visibility modes used in Inheritance.
- Q. 4 What is Virtual Base Class? Explain with suitable diagram.
- Q.5 Explain Multilevel Inheritance with suitable example program.
- Q. 6 WAP to implement single inheritance. Declare baseclass 'employee' with empno & empname. Declare derived class 'fitness' with height and weight. Accept and Display data for one employee.

Chap 5

- Q.1 How to initialize a Pointer? Explain with syntax.
- Q.2 WAP to search a number from an array using pointer to array.
- Q.3 WAP to display the string in reverse order.
- Q.4 Explain the concept of this pointer.

Chap. 6

- Q.1 Differentiate between static binding and dynamic binding
- Q.2 Can we use base class pointer for accessing member function of derived class? Explain with suitable example.
- Q.3 WAP using function Overloading to calculate Volume of cube and Cylinder.
- Q.4 Overload increment Operator for class 'point' having data members as x co-ordinate and y-co-ordinate.

Q.5 Differentiate between overloading and overriding of functions.

Q.6 List any four rules for creating virtual function.

Q.7 What is pure virtual function.