

## Question Bank (G SCHEME)

**Subject Name: Object Oriented Programming**

**Unit test:I**

**Subject code : OOP(17432)**

**Course:CM/IF**

**Semester:IV**

### **Chapter No.1: Principal's of object oriented programming (12 marks)**

#### **(3 Marks Questions)**

1. Difference between OOP and POP
2. List the different Characteristics of OOPs
3. List the different operator available in c++ and explain in detail scope resolution operator.

#### **(4 Marks Questions)**

1. Which are input and output operators in c++? Explain in detail with syntax and example.
2. Write a program to calculate simple interest using formula  $si=(p*r*n)/100$  where p , n, r are the principal amount , duration and rate interest respectively.
3. List and explain any four basic concept of object oriented programming.

### **Chapter No.2: Classes and Objects.(20 marks)**

#### **(3 Marks Questions)**

1. What is the class? Explain with syntax and example.
2. Describe memory allocation for object.
3. What is object? How they are created explain with syntax and example.
4. What is friend function? Explain its features.

#### **(4 Marks Questions)**

1. What is static data member and static data member function? State the different characteristics of static member.
2. Describe access specifieres used in c++.
3. Write a program for swapping content of two variables using friend function.
4. Explain in detail concept array of object with example.

5. Write a program to declare class student having data members as roll\_no, name and percentage of marks. Read data for 5 object students and display data of student having higher percentage.
6. Write a program create two classes test1, test2 which stores marks of student. Read values and calculate average of two test.

### **Chapter No:3 Constructor and Destructors (14 marks)**

#### **(3 Marks Questions)**

1. What is constructor? List the different properties of constructor.
2. What is destructor? How many destructors can be defining in a single class? List the different properties of destructor.
3. Difference between parameterized constructor and default constructor.

#### **(4 Marks Questions)**

1. List the different types of constructor with definition, syntax and example.
2. Explain the concept of constructor with default argument with suitable example.
3. Write a program using constructor and destructor for a class that should display the object number being created/ destroyed of this type.
4. Write a program declare a class 'measure' having data member add1,add2 & add3. Initialize the two data members using constructor & store their adding in third data member using function & display the addition.
5. Define a class to represent a bank account which includes:

Data members: name,acc\_no,acc\_type,bal\_amt& constructor to assign initial value.

Member function: To deposit an amount, to withdraw an amount and display the name and balance.

6. Write a program to finding simple interest using constructor with default argument.

