Computer Department

Name of Programme: - CO

Name of Course: - Object Oriented Programming

Course Outcome. – **Develop C++ Programs to solve problem using procedure oriented approach.**

Assignment –I

2 Marks Questions.

1. Difference between POP and OOP.
2. Explain Basic Concepts of OOP.
3. Explain Object Oriented Languages.
4. Write Applications of OOP.
5. Differentiate between While loop and Do-while loop.
6. Define Following Terms.

4 Marks Questions.

1. Explain Structure of C++ Program.
2. Explain Scope Resolution Operator with example.
3. Explain Memory Management Operator with example .
4. Define Array with example.
5. Define String with example.
6. Explain Structure with example.

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Assignment –II

2 Marks Questions.

1. Define Class with Example.
2. Define Object and How to create Object.
3. Explain Access Specifiers.
4. Describe Memory Allocation for object.
5. Explain Static Data members with example.
6. Explain the Constructor with examples.

4 Marks Questions.

1. Explain Friend Function with example.
2. Explain Array of Object with example.
3. Write examples of all types of constructor.
4. Explain Destructor with example.
5. How to define member function with example.
6. Write a program to find out area of circle using oop such that class circle must have three inline function read(),compute() and display().
7. Write a program to declare a class staff having data members name and department accept this data for 10 staff and display name of the staff are in CO department.
8. Write a program to declare a class mobile having data members price and model accept and display this data for 5 object.

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Assignment –III

1. **Define types of inheritance with its diagram.**
2. **difference between POP and OOP.**
3. **Define Access specifiers.**
4. **Explain memory management operator with example.**
5. **Define class with example.**
6. **WAP to declare a class account having data members acc_no, acc_name and salary. accept and display data for 5 object. display data which account salary is greater than 5000.**
7.

```
class: student
DM: stud_id, stud_name
```
|
```
class: subject
DM: JAVA, OOP
```
|
```
class: student
DM: total
```

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Assignment –IV

1. **Define types of inheritance with its diagram.**
2. **WAP to add two number using single inheritance such that base class function must accept the two number from the user and the derive class function must add this number and display the sum.**
3.

```
┌─────────────────────────┐
│ class: furniture        │
│ DM: material, price     │
└─────────────────────────┘
            │
┌─────────────────────────┐
│ class: subject          │
│ DM: height , sur_area   │
└─────────────────────────┘
```

4. **Write a program to implement single inheritance declare base class employee with emp_id, emp_name . Declare derived class fitness with height and weight. accept and display data for employee.**
5. **Define Multiple Inheritance and Write one example on it.**
6. **Define Hybrid Inheritance and Write one example on it.**
7. **Define Virtual base class and Write one example on it.**

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Course Outcome. – Use Polymorphism in C++ Program.

Assignment –V

Questions:

1. What is a pointer? Give any example.
2. Write C++ Program accept one variable and display address of that variable and its original value using pointer.
3. what is array of pointer with example.
4. Difference between call by value and call by reference.
5. Write one example on call by value and call by reference.
6. Write a program pointer to string for finding length of string.
7. Define Polymorphism with its classification.
8. Difference between compile time and run time polymorphism.
9. Explain constructor overloading with example.
10. Explain function overloading with example.

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Course Outcome. – Develop C++ programs to perform file operation.

Assignment –V

Questions:

1. What is stream and what are the class of stream.
2. explain file management functions.
3. List and explain error handling functions during file operation.
4. Explain file modes of stream.

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