

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

Unit Test-I

Programme: - CM/IF

Semester: - III

Course: - Object Oriented Programming using C++ (22316)

UNIT –I

(Principles of Object Oriented Programming.)

CO a) Develop C++ programs to solve problems using Procedure Oriented Approach.

- Q.1 List any four object oriented languages. (2M)
- Q.2 Write any four features of object oriented programming. (4M)
- Q.3 Differentiate between POP and OOP. (4 points) (4M)
- Q.4 State any four application of object oriented programming. (2M)
- Q.5 Explain insertion and extraction operators. (4M)
- Q.6 What is Data abstraction? (2M)

UNIT –II

(Classes and Objects)

CO b) Develop C++ programs using classes and objects.

- Q.7 Define class with it's syntax. (2M)
- Q.8 Write any four rules to define constructor in a class. (4M)
- Q.9 What is destructor? Give it's syntax. How many destructors can be defined in a single class?(4M)
- Q.10 Write a program to declare a class staff having data members as name and post. Accept and display data for five staff members. (Using array of object). (4M)
- Q.11 How many ways we can define member function in class ? Give it's syntax. (4M)
- Q.12 Differentiate between structure and class. (4M)
- Q.13 Explain constructor with default argument. (4M)

Q.14 Write a program to declare a class student consisting of data member stud_name and Roll_no. Write program with member function accept() to accept and display() to display the data for four students.(4M)

Q.15 Explain how memory is allocated to objects of a class. (4M)

Q.16 Write a program to declare a class 'student' having data members as name and percentage. Write a constructor to initialize these data members accept and display data for one student.

Q.17 Differentiate between constructor and destructor. (4M)

Q.18 Define friend function. Write syntax of declaring it. (4M)

Q.19 Write a program to create a class "student" having data member as name, roll no. and percentage to read and display details for 10 students. (4M)

Q.20 Explain : (i) Static member function (ii) Friend function.(4M)

Q.21 Explain the concept of parameterized constructor with example. (4M)

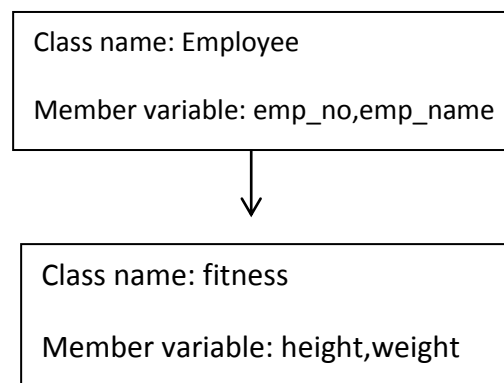
Q.22 Write a program to show use of passing object as a parameter to function showdata () for a class "student" having data member as name and roll no. & member function as getdata (). (4M)

UNIT –III

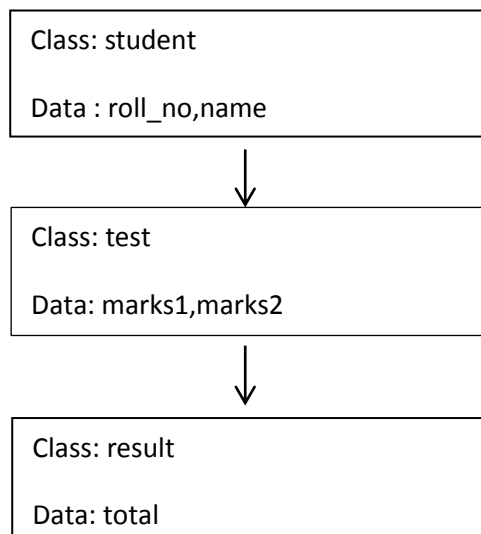
(Extending classes using Inheritance)

CO c) Implement Inheritance in C++ program.

Q.23 Write a program to implement inheritance as shown in Fig. 1. Assume suitable member function. (4M)



Q.24 Write a program to implement inheritance as shown in Fig.2 Assume suitable member function.(4M)



Q.25 What is inheritance? Why inheritance used in C++? (4M)