C++ Final Test

Batch code: p21/22/23 Time:2.00 hrs

Note:

Question 1,2,3 are compulsory.

From Question 4-9 , internal choices are there.

All Question Carry Equal Marks.

Q.1)Define a class MusicAcademy in C++ with following description :

Private Members

Enrollno of type int

Name of type string

Style of type string

Fee of type float

A member function chkfee() to assign the value of fee variable

according to the style entered by the user according to the criteria as given below :

Style Fee

Classical 10000

Western 8000

Freestyle 11000

Public Members

A function enrollment () to allow users to enter values for Enrollno, Name, Style and call

function chkfee()to assign value of fee variable according to the Style entered by the user.

A function display () to allow users to view the details of all the data members.

Q.2) What is Friend class ? Create a Friend class named ExamMusicAcademy of the above class

mentioned in Q.1, and shows the exam details of the object of MusicAcademy shown below.

Style exam on

Classical December

Western november

Freestyle febrary

display month only (not have to create any data member ,use if-else)

Q.3)What is polymorphism? differnce between early and late binding.

WAP to create a class Highest which can find highest number amoung 3 numbers.

data member: int n1,n2,n3,n4.

member function: parameterized\_constructor(),

overload fun() as--->highest(n1,n2,n3),highest(n1,n2,n3,n4),

Q.4)Write a c++ program to create an abstract class Vehicle with abstract methods startEngine()

and stopEngine(). Create subclasses Car and Motorcycle that extend the Vehicle class and implement

the respective methods to start and stop the engines for each vehicle type.

OR

Q.5)WAP to Create a Class Bank ,create a static variable count\_customer and a static function displaycount()

displaycount() shows how many objects(customer) is gone created of Bank class.

Q.6)What is Inheritance? WAP to illustrate Multiple inheritance.

OR

Q.7)WAP to define a class named Student and perform operator overloading

private data member :

int marks

public member function:

default constructor()

parameterized constructor(marks)

overload \* operator

output:

3 objects--> s1(45),s2(55),s3(7);

perform operation--> s1\*s2\*s3 -->output 55(highest)

Q.8)WAP to take input n from the user.

if n is positive,display A to Z characters

(ascending order)

if n is negative,display z to a characters

(descending order)

if n is zero,display a message "good bye"

OR

Q.9> WAP to create a c++ application in which user can only give a even number

but if user can give odd number, then exception should be raised and handled.