method also.

Answer all the questions

Q.			
No	QUESTI		Marks
1	Ashish, an animation designer, is in need of storinformation of a point in 2D space. Let x, y reprecolour information respectively for a structure in (R,G,B) in the computer system is represented between the pyour client in implementing the above us initialize and display the details of couple of pixel	sent the positional and R, G, B represent the named PixelPoint . Note: Each colour code ween the values 0 to 255. ing structure concept in the C language to	10
	Create a class Saving Account with members Account_holder_name. Create parametrized const members. Create member functions for deposit(), The Interest is calculated as sav_bal*0.2. Write the C++ code in order to achieve the follo reference: • Accept deposit and withdrawal amount from a c • Display the account details and interest as show • Check for the minimum balance, impose pen-	ructor with in the class to initialize the data withdraw(), interest(), penalty() and show(). wing tasks with sample input and output as sustomer and update balance in below	
	balance<500).		
1	Sample Input Accout No.1001	Sample Output	
	Name :Nani	Account No: 1001	
	Balance :20000	Name: Nani Balance: 29000	10 ss]
1	Enter Deposit Amount = 10000	Interest = 580	
	Enter Withdraw Amount = 1000	No penalty	
Ta	Compare and contrast procedura! program		11
Ta	anguage in detail. [5 marks]	ming with object-oriented programming	3 10
b). Differentiate between static and non-static data	members of a class with suitable example	
		[S modes	a l
W	rite a C++ program to display the electricity bill reate a class Consumer with protected fields	of the consumers using multiple inheritance as customer_number, name, and address	10

Create a derived class *Electricity_bill* from the base class *Consumer* and *Meter*. Create one member function in the same class to calculate total electricity bill. Use the table below and below formula

 $total_bill = bill + (bill*vat)$

unit= last_meter_reading - start_meter_reading.

bill= unit*rate

unit	rate/Unit	vat
<100	2.84	12%
100-200	3.10	14%
>200	4.10	16%

Sample Input

5

Welcome to the Electricity Consumer

information system

Enter the Customer No: 1001

Enter the Customer Name: Jony

Enter the Customer Address: Plot 42, Vellore

Enter the Starting meter reading: 200

Enter the Ending meter reading: 550

Sample Output

The customer No: 1001
The customer Name: Jony

The customer address: Plot 42, Vellore

Starting meter reading=200 Ending meter reading=550 Total unit consumed=350

Total bill=1664.6

Given below a code to calculate area of rectangle through inheritance. Using the derived class calculate the area. Complete and fix the bugs, if any. Keep relevant comments to justify the errors identified. Explain the features involved in the code

#include<iostream>

```
----// Fix me
 class Rectangle
   private:
     float length;
   public:
     float breadth:
     void Enter lb(void)
        -----}
     float get I(void)
        class Rectangle1: public Rectangle
   private:
    float area;
   public:
    void Rec area(void)
    { area = length * breadth; }
void Display(void)
   -----//Fix me -----
}; // End of the derived class definition
int main()
```

Rectangle1 r1; r1.Enter_lb(); r1.Rec_area(); r1.Display(); return 0; } 10