

SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY ,Hinjewadi

Mock Lab Examination – C++ Programming

Course Name :- PG-DAC

Batch - August 2024

Date :- 16-09-2024

Duration :- 2 hours

Marks:- 40

Instructions :

- 1. Create Workspace (folder) by the name CPP<digit PRN> in home directory**
- 2. Create new Project and save it in above folder.**
- 3. You can use all necessary documents for help .**

Question :

Spectacular mart is an online *Shop* from a wide range of laptops, cameras, watches like products from top brands at the best prices.

Create an application for spectacular mart to maintain the data of customer and product.

--- Create class Product with data members as id, product_name, price

[Example of product_name=watch price=4400]

--- Create a class Person with data member name.

--- Create a class customer with data members as mobile, purchasedProducts.

Each customer buy few products.

Do the proper relationships in between above classes.

Write a menu driven code which will have below menus

1. Display all products
2. New Customer
3. New product
3. Customer purchase the product
4. Take the customer mobile number from user and display products brought by that specific customer

Use of STL(Vector) is allowed. And Use of Inheritance is expected.

Sr.No	Points to Cover	Max Marks
1	Class Person , Product, customer	2+2+2
2	New customer	5
3	Add Product + Display all products	5+5
4	Customer purchase the product	5
5	Display products brought by specific customer	6
6	Menu Driven Program + Naming Conventions + Comments	4+2+2
	Total	40