## II.S.S.C. PRACTICAL EXAMINATION 20 -200 Subject:- Computer Science

Time: 3 Hours

Max. Marks: 25

## Instruction:

- 1) Both the long and the short program should be written on the answer book supplied before typing on the computer.
- 2) Both the programs should be written in C++ using OOPs Concept
- 3) Figures to the right indicate full marks.
- 4) Each program should be written on a fresh page.
- Q.1) Define a class named TEXT consisting of the following Members:
  - i) LINE: a character array of size 80 under private visibility label.
  - Define a default constructor to accept a line of text from the user and determine the total number of consonants present in it for display.

Write a relevant main function to complete the program.

(05)

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Instructions:

Max Marks: 25

- Both the long and short programs should be written on the answer book supplied
- Figures to the right indicate full marks. Both the programs should be written in C++ using OOPs concept
- Each program should be written on fresh page.
- Q. 1) Define a class name SMALL consisting of the following members:
- list: array of type short integer size 10 under private visibility
- N of type short unsigned integer (total no of elements to be accepted in the array.
- which determines sum of all even numbers in array. the array list. It further calls the member function show() followed by the process() Define a default constructor to accept the data member N and to accept the elements in
- Show() funciton to displya the contents in the array. Write a relevant main function to complete the program.

(5)

17 stockvalue price, stockqt Define a class named Publisher in C++ with the following descriptions: A function to find price\*stockqty with double as return type double 40 char 40 char MODERN'S abo OF COMPUTER SCIENCE C++ ON

ublic members :

valcai()

A constructor function to initialize price, stockqty and stockvalue as 0 Enter() function to input the idnumber, title and author

Takestock() function to increment stockqty by N(where N is passed as argument to this function

argument) and also call the function valcal() to update the stockvalue, outdata() function to disp sale() function to decrease the stockqty by N (where N is sale quantity passed to this function and call the function valcal() to update the stockvalue().



all the data members on the screen.

Define a class Garments in C++ with the following specifications:

Private Members:

GCode of type string

GType GSize GFabric of type string of type integer of type string

of type float

A function Assign() which calculates and assigns the value of GPrice as follows:

For the value of GFabric as "COTTON"

GType GPrice (Rs)

SHIRT

TROUSER 1300

For Fabric other than "COTTON" the above mentioned GPrice gets reduced by 10%.

## Public Members:

and GSize & GPrice with 0. A constructor to assign initial values of GCode, GType, GFabric with the word "NOT ALLOTTED"

invoke the Assign() function. A function input() to input the values of the data members GCode, GType, GSize and GFabric and

A Function Display() which displays the content of all the data members for a Garment.

aling"

pefine a class TEST in C++ with following description: Private Members:

- (a) TestCode of type integer
- (b) Description of type string
- (c) NoCandidate of type integer
- (d) CenterReqd (number of centers required) of type integer
- (e) A member function CALCNTR() to calculate and return the number of centers as (NoCandidates/ 100+1)

## Public Members:

- A function SCHEDULE() to allow user to enter values for TestCode, Description, NoCandidate & call function CALCNTR() to calculate the number of Centres.
- A function DISPTEST() to allow user to view the content of all the data members.

efine a class applicant in C++ with the fol- ivate Members:  A data member ANo (Admission Numb A data member Name of type string A data member Agg (Aggregate Marks)		
ivate Members:  A data member ANo (Admission Numb A data member Name of type string		
A data member ANo (Admission Numb A data member Name of type string	per) of type long	
A data member Name of type string	THE RESERVE TO SERVE THE PARTY OF THE PARTY	
I data member 1.99 (1.99. Quite minus)	of type float	
A data member Grade of type char		
A data member Grade of type char  A member function Grade Me() to find ( Equivalent Aggregate Marks range and	Grade as per the Aggregate the respective Grades are	Marks obtained by a stude shown as follows:
Aggregate Marks	Grade	
>=80	A	
less than 80 and >=65	В	
less than 65 and >=50	С	
less than 50	D	
ublic Members :		
NIA-9		
		<b>企业人</b>
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