Exam Seat No:	Enrollment No:
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C.U.SHAH UNIVERSITY

Wadhwan City

Subject Code: 4TE02OOP1 Summer Examination-2014 Date: 04/06/2014

Subject Name : Object Oriented Programming (OOP)

Branch/Semester:- B.Tech/II Time:02:00 To 5:00

Examination: Regular

Instructions:-

- (1) Attempt all Questions of both sections in same answer book / Supplementary
- (2) Use of Programmable calculator & any other electronic instrument is prohibited.
- (3) Instructions written on main answer Book are strictly to be obeyed.
- (4)Draw neat diagrams & figures (If necessary) at right places
- (5) Assume suitable & Perfect data if needed

SECTION-I

- (a) Define: Class and Object. 02 Q-1 **(b)** Define: Data Encapsulation and Polymorphism. 02 What are the differences between Constructor and Destructor? 02 (e) Find out the output of following C++ code. Assume all the libraries have been 01 included and code is syntactically corrected. main() int m=5: int n = m + + * + + m; cout<<"m="<<m<<endl; cout<<"n="<<ndt; } (a) Differentiate between Call by Value and Call by Reference with suitable Q-2 04 example.
 - (b) Explain Function Overloading with suitable example. 05
 - (c) Explain Inline Function with suitable example. 05

OR

- Q-2 (a) Explain Friend Function in details. 04
 - (b) Explain Static Data Member with suitable example. 05
 - (c) Explain Default Arguments with suitable example. 05
- Q-3 (a) 1) Enlist characteristics of Constructors also explain Parameterized
 Constructor.
 - 2) Explain Constructor Overloading with suitable example.
 - (b) Define a Class "complex" having data members as real and imag and member functions as add_comp() & show_comp(). Write a C++ program to get information of 2 complex numbers and add these 2 complex numbers and display this result using Overloaded Constructor Concept.

OR



- Q-3 (a) Define a Class "student" having data members as roll_no, std_name, marks of 3 subjects and member functions as get_data() & put_data. Write a C++ program to get information of 3 students and find and display the total marks of each student.
 - (b) Differentiate Procedure Oriented Programming and Object Oriented Programming.

SECTION-II

Q-4 (a) Define Following Terms.

 Type Conversion 	01
• Inheritance	01
Operator Overloading	01
• Pointer	01
• Run time polymorphism	01
Compile time polymorphism	01

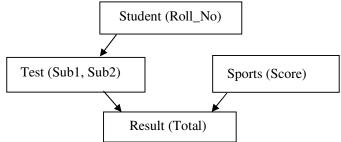
(b) Find out the output of following C++ code. Assume all the libraries have 01 been included and code is syntactically corrected.



- Q-5 (a) Enlist types of type conversion. Explain any one of them with example. 05
 - (b) Explain Unary Operator overloading with suitable example. 05
 - (c) List out types of Inheritance. Explain Single inheritance with suitable example.

OR

- Q-5 (a) Explain Binary Operator overloading with suitable example.
 - (b) Explain Containership with suitable example. 05
 - (c) Explain virtual function with suitable example. 04
- **Q-6** (a) Write a C++ program to implement following Class hierarchy to create, modify and display information using Inheritance concept:



(b) Write A C++ program to Overload unary minus (-) operator using Operator 07 Overloading Concept.



05

07

Q-6 (a)	(a)	1) Explain following file functions with suitable example	03
		a.) open()	
		b.) close()	
		c.) tellp()	
		2) Explain following file functions with suitable example (Any two).	04
		a.) seekg()	
		b.) seekp()	
		c.) tellg()	
	(b)	Explain Multilevel inheritance with suitable example.	07



