

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name : Object Oriented Programming

Subject Code : 4TE02OOP1

Branch: B.Tech (All)

Semester : 2

Date : 31/10/2018

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions:

(14)

- a) What is object orientation?
- b) Define Encapsulation.
- c) Define Polymorphism.
- d) Define abstract class.
- e) Explain setwidth().
- f) Explain <math.h>.
- g) What is cout?
 - a) It is a Function
 - b) It is an operator
 - c) It is an object
 - d) It is a class
- h) The member of a class by default are
 - a) private
 - b) public
 - c) protected
 - d) mandatory to specify
- i) Symbol of Scope resolution operator.
 - a) +
 - b) ::
 - c) -
 - d) #
- j) Which of the following of the class allow only one object of it to be created?
 - a) Virtual class
 - b) Abstract class
 - c) Friend class
 - d) Singleton class
- k) Which of the following is selection statement in C++?
 - a) for
 - b) switch
 - c) break
 - d) exit
- l) What is the correct value to return to the operating system upon the successful completion of a program?
 - a) 0
 - b) 1
 - c) -1
 - d) none
- m) Member function, when defined with the class specification
 - a) Are not inline
 - b) are always inline
 - c) are not always inline by default
 - d) none of the above
- n) The function that calls itself for its processing is known as
 - a) Inline function
 - b) friend function
 - c) overloaded function
 - d) recursive function

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions

(14)

- (a) Explain basic structure of c++ program with suitable example.

07



	(b)	Differentiate object oriented programming and procedural programming and Explain features of object oriented programming.	07
Q-3		Attempt all questions	(14)
	(a)	What is user defined function? Explain with c++ program to swap two numbers using call by reference.	07
	(b)	What is operator overloading? Explain unary minus (-) operator overloading with example.	07
Q-4		Attempt all questions	(14)
	(a)	What is class? Explain access modifier of c++.	07
	(b)	Explain this pointer with suitable example.	07
Q-5		Attempt all questions	(14)
	(a)	Explain friend function with example.	07
	(b)	Explain exception handling in C++ with example.	07
Q-6		Attempt all questions	(14)
	(a)	List types of inheritance. Explain multilevel inheritance with example.	07
	(b)	What is pure virtual function? Explain virtual function with example.	07
Q-7		Attempt all questions	(14)
	(a)	Explain function overloading with suitable example.	07
	(b)	Explain class template and function template with suitable example.	07
Q-8		Attempt all questions	(14)
	(a)	Explain File stream classes in C++.	07
	(b)	Explain copy constructor with suitable example.	07

