C.U.SHAH UNIVERSITY
Summer Examination-2019

Subject Name : Object Oriented Programming

Subject Code : 4CS04OOP1   **Branch: M.Sc. C.A. & I.T. (Integrated)**

Semester :4   **Date : 18/04/2019**   **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.

Q1   Attempt the following questions: 14
a) C++ is _____
    a) POP   c) OOP
    b) Structural Programming   d) Monolithic Programming
b) Which of the following is member access operator?
    a) ,(comma)   c) *(pointer)
    b) .(dot)   d) &(Reference)
c) Which keyword is used to perform the write operation in c++?
    a. Cout   c. Printf()
    b. Cin   d. Scanf()
d) Which of the following approach is adapted by C++?
    a. Top dowm   c. Left right
    b. Bottom up   d. Right left
e) What is default visibility mode for members of classes in C++ ?
    a. Private   c. Protected
    b. Public   d. Depends
f) C++ code line ends with ___
    a) A Semicolon (;)   c) A Comma (,)
    b) Fullstop(.)   d) A Slash (/)
g) Which of the following term is used for a function defined inside a class?
    a. Member variable   c. Class variable
    b. Member function   d. Class function
h) How we can access data members using objects ?
    a. object@datamember   c. object->datamember
    b. object*datamember   d. object.datamember
i) Which of the following concepts means wrapping up of data and functions together?
    a. Abstraction   c. Inheritance
    b. Encapsulation   d. Polymorphism

j) A …………………. refers to an object that that currently invokes a member function.

   a) void pointers   c) this pointer

   b) null pointers   d) base pointer

k) A constructor has the same name as …………. Name.

   a) Class   c) Object

   b) variable   d) Function

l) Default argument always given from.

   a) Right To Left   c) A and B Both

   b) Left To Right   d) Cant say

m) STL stands for………..

   a) Simple TemplateLibrary   c) StandardTemplateLibrary

   b) Static Type Library   d) Single type based library

n) Which symbol is used to define function out side the class.

   a) :   c) ~

   b) <<   d) ::

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

Q-2		**Attempt all questions**	**(14)**
	1	What is class? Explain class in detail with example.	**5**
	2	Define Constructor? Explain types of constructor.	**5**
	3	Explain Access specifier in detail.	**4**
Q-3		**Attempt all questions**	**(14)**
	1	Explain Function overloading with example.	**5**
	2	What is the use of comment? Explain types of comment.	**5**
	3	Explain C++ input and output stream.	**4**
Q-4		**Attempt all questions**	**(14)**
	1	Explain Destructor with Characteristics	**5**
	2	Explain friend function with example.	**5**
	3	Explain Method Overriding with example.	**4**
Q-5		**Attempt all questions**	**(14)**
	1	Write a note on POP and OOP	**5**
	2	Explain dynamic memory allocation and deallocation in C++.	**5**
	3	Explain passing class objects to function.	**4**
Q-6		**Attempt all questions**	**(14)**
	1	What is Inheritance? Explain types of inheritance with example.	**7**
	2	Explain difference between C and C++ .	**7**
Q-7		**Attempt all questions**	**(14)**
	1	What is virtual function? Explain with example.	**5**
	2	Explain Overloading Unary Operator using member function.	**5**

	3	What is template? Explain Function Templates with multiple parameters.	**4**
Q-8		**Attempt all questions**	**(14)**
	1	Write a program to check enter number is Armstrong or not using class.	**5**
	2	Write a program to create multiple inheritance.	**5**
	3	Explain Nested class in detail.	**4**