C. U. SHAH UNIVERSITY
Winter Examination-2022

Subject Name : Object Oriented Programming with C++

Subject Code : 4CS02BOP1   **Branch: B.C.A.**

Semester: 2   **Date: 20/09/2022**   **Time: 11:00 To 02:00**   **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.

Q-1   **Attempt the following questions:**   **(14)**
 a) Runtime polymorphism is done using.
   A. Function overloading   C. Virtual Class
   B. Friend class   D. Virtual function
 b) How many types of polymorphisms are supported by C++?
   A. 1   C. 3
   B. 2   D. 0
 c) How many specifiers are present in access specifiers in class?
   A. 1   C. 2
   B. 3   D. 4
 d) C++ was originally developed by
   A. Nicolas Wirth   C. Bjarne Stroustrup
   B. Donald Knuth   D. Ken Thompson
 e) Which keyword is used to access the variable in namespace?
   A. Static   C. using
   B. Dynamic   D. const
 f) The operator << is called
   A. Insertion Operator   C. Pointer operator
   B. Extraction Operator   D. None of the above
 g) In CPP, members of a class are _____ by default.
   A. Private   C. Public
   B. Protected   D. Static
 h) How many types of constructors are available in c++?
   A. 0   C. 2
   B. 1   D. 3
 i) What does STL stands for ?
   A. Simple Template Library   C. Static Type Library
   B. Single Type based Library   D. Standard Template Library
 j) Which of the following is used to terminate the function declaration in
   C++?

A. ;   C.]
B.)   D. :

k) Default constructor has _____ arguments.
   A. No argument   C. Two arguments
   B. One argument   D. Many arguments

l) Reusability of code in C++ is achieved through _____
   A. Polymorphism   C. Inheritance
   B. Encapsulation   D. Exception handling

m) C++ uses which approach?
   A. right – left   C. top –down
   B. left- right   D. bottom -up

n) Which of the following is "address of operator"?.
   A. *   C. &
   B. []   D. &&

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

Q-2		**Attempt all questions**	**(14)**
	A	Explain basic concepts of OOP.	**07**
	B	Explain difference between OOP and POP.	**07**

Q-3		**Attempt all questions**	**(14)**
	A	Explain function overloading with example.	**07**
	B	Explain reference variable with example.	**07**

Q-4		**Attempt all questions**	**(14)**
	A	Explain how to create a class and object with example.	**07**
	B	Explain static variable and static function with example.	**07**

Q-5		**Attempt all questions**	**(14)**
	A	Explain types of inheritance with example.	**07**
	B	Explain virtual function with example.	**07**

Q-6		**Attempt all questions**	**(14)**
	A	Explain rules for operator overloading.	**07**
	B	Explain array of object with example.	**07**

Q-7		**Attempt all questions**	**(14)**
	A	Explain function template with example.	**07**
	B	Explain friend function with example.	**07**

Q-8		**Attempt all questions**	**(14)**
	A	Explain constructor and destructor with example.	**07**
	B	Explain class to basic and basic to class conversion with example.	**07**