

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Winter Examination-2021

Subject Name: Object Oriented Programming with C++

Subject Code: 4CS03IPC1

Branch: B.Sc.I.T.

Semester: 3

Date: 13/12/2021

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) OOP stands for ____
 - A. Own Object Program
 - B. Object Oriented Programming
 - C. Our Objective Program
 - D. Object Overall Programming
- b) Which of the following is the correct syntax to print the message in C++ language?
 - A. cout <<"Hello world!";
 - B. Out <<"Hello world!";
 - C. Cout << Hello world! ;
 - D. None of these
- c) Which of the following is reference variable?
 - A. @
 - B. ?:
 - C. &
 - D. ::
- d) Which of the following is the original creator of the C++ language?
 - A. Dennis Ritchie
 - B. Bjarne Stroustrup
 - C. Ken Thompson
 - D. Brian Kernighan
- e) For inserting a new line in C++ program, which one of the following statements can be used?
 - A. \n
 - B. \r
 - C. \t
 - D. None of these
- f) In CPP, members of a class are _____ by default.
 - A. public
 - B. protected
 - C. private
 - D. static
- g) Static variables are default initialized with _____.
 - A. 0
 - B. -1
 - C. 1
 - D. garbage collection
- h) The operator >> is called _____.
 - A. Insertion operator
 - B. extraction operator
 - C. pointer operator
 - D. pointer to member access operator.



- i) How many types of constructors are possible in C++ ?
 A. 1 C. 2
 B. 3 D. 0
- j) What is Inheritance in C++?
 A. Deriving new classes from existing classes
 B. Overloading of classes
 C. Classes with same names
 D. Wrapping of data into a single class
- k) Which value will function take when both user value and default values are given?
 A. user value C. default value
 B. custom value D. defined value
- l) Which of the following operator can be overloaded in C++?
 A. :: C. ?:
 B. sizeof() D. >
- m) Which of the following is not a kind of inheritance?
 A. distributed C. multiple
 B. multi level D. hierarchical
- n) STL stands for _____
 A. Simple Template Library C. Static Type Library
 B. Single Type based Library D. Standard Template Library

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

- Q-2 Attempt all questions (14)**
- a) Explain basic concepts of OOP. (5)
- b) Explain function overloading with example. (5)
- c) Explain this pointer with example. (4)
- Q-3 Attempt all questions (14)**
- a) Explain inline function with example. (5)
- b) Explain friend function with example. (5)
- c) Explain function prototyping in C++ with example. (4)
- Q-4 Attempt all questions (14)**
- a) Explain array of object with example. (5)
- b) Explain defining member function outside the class with the help of an example. (5)
- c) Explain scope resolution operator with example. (4)
- Q-5 Attempt all questions (14)**
- a) Explain difference between compile time polymorphism and run time polymorphism. (5)
- b) Explain dynamic memory allocation and de allocation in C++. (5)



c) Explain private member function with example. (4)

Q-6 **Attempt all questions** (14)

a) Explain class to basic and basic to class conversion with the help of an example. (5)

b) Explain any five rules for operator overloading. (5)

c) Explain virtual function with example. (4)

Q-7 **Attempt all questions** (14)

a) Explain constructor and destructor in detail with example. (7)

b) Explain difference between POP and OOP. (7)

Q-8 **Attempt all questions** (14)

a) What is inheritance ? Explain types of inheritance. Give example of any one. (7)

b) What is template? Explain function template with example. (7)

