

Enrollment No:- \_\_\_\_\_

Exam Seat No:- \_\_\_\_\_

## C.U.SHAH UNIVERSITY

Summer-2015

Subject Code: 5CS02OOP1 Subject Name: Object Oriented Concepts & C++ Programming

Course Name: M.Sc. (IT)

Date: 13/5/2015

Semester:II

Marks:70

Time:02:30 TO 05:30

---

### Instructions:

- 1) Attempt all Questions of both sections in same answer book/Supplementary.
  - 2) Use of Programmable calculator & any other electronic instrument 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.
- 

- Q. 1** [a] What are the features of OOP's? How they implemented in C++? **07**  
[b] Write note on branching structures. **07**  
**Attempt any four from Q-2 to Q-8.s**
- Q. 2** [a] Differentiate between Object Oriented and Procedure Oriented **07**  
programming. **07**  
[b] Why is IO special? Write note on handling file control errors.
- Q. 3** [a] How can an overloaded operator be invoked using Friend functions? List **07**  
out the operators that cannot be overloaded using Friend function.  
[b] What are text mode and binary mode input/output? What are their **07**  
corresponding strengths and weakness?
- Q. 4** [a] Write note on looping structures. **07**  
[b] Explain inline functions by example. List out the conditions where inline **07**  
expansion doesn't work.
- Q. 5** [a] Define manipulators. What are the manipulators are used in C++? **07**  
[b] What is namespace? Explain by example how it can be defining and **07**  
extending.
- Q. 6** [a] What is the use of new operator? Explain the advantages of new operator **07**  
over malloc().



- [b] Explain exception handling mechanism. What are the drawbacks of exception handling approach? **07**
- Q. 7** [a] Describe different Data Types and Operators of C++. **07**
- [b] What is polymorphism? Differentiate between compile time and run time polymorphism. **07**
- Q. 8** [a] What is 'this' pointer? Where and why does the compiler insert it implicitly? **07**
- [b] What is template? Explain function template with generic and non-generic types. **07**

