

Roll No.

67015

MCA 1st Semester (with old notes)

Examination – December, 2016

OBJECT ORIENTED PROGRAMMING USING C++

Paper : MCA-105

Time : Three Hours]

[Maximum Marks : 80

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all by selecting at least *one* question from each Unit. All questions carry equal marks.

UNIT – I

1. (a) What is Object Oriented Programming ? Discuss various elements of OOP.
- (b) Discuss following :
 - (i) Abstract data type
 - (ii) Function prototyping
 - (iii) User defined types

2. When will you make a function inline and why ? How does an inline function differ from a preprocessor macro ? Explain the working of inline function with example.

UNIT - II

3. (a) What is constructor ? Can we have more than one constructor in a class ? If yes, discuss the need of such a situation.
(b) Discuss with example, the implication of deriving a class from an existing class by the "public" and "protected" access specifier.
4. (a) What is destructor ? Discuss the need of destructor with appropriate example.
(b) What is polymorphism ? How is polymorphism achieved at (i) compile time, (ii) run time. Discuss with example. <http://haryanapapers.com>

UNIT - III

5. (a) What is an exception ? What are the advantages of using exception handling mechanism in a program ? Can you throw class types as exception ? Discuss with example.
(b) What is friend function ? How do they act as bridge between two classes ?
6. (a) What is operator overloading ? Write a program to overload unary operator.

- (b) Explain new and delete operators used in dynamic memory allocation.

UNIT - IV

7. (a) What are templates ? How templates are different from standard programs ? How are these declared ? Discuss with example.
(b) Discuss the role of hashes in C++.
8. (a) What is string ? Explain different types of string. Discuss the concept of manipulating string with suitable example.
(b) What are iostreams ? How they are necessary part of C++ programming ?

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