

Roll No.

67010

**MCA 1st Semester (Current)
CBCS Scheme w. e. f. 2016-17
Examination – November, 2018**

OBJECT ORIENTED PROGRAMMING USING C++

Paper : 16MCA-31C5

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, 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, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) What is adaptor ?
- (b) What is new keyword ?
- (c) What is this pointer ?
- (d) What is object initialization ?
- (e) What is static variable ?

- (f) What is expected exception ?
- (g) What is abstract class ?
- (h) What is pure virtual function ? 8 × 2 = 16

UNIT - I

- 2. (a) What do you understand by procedure oriented programming language ? Explain the features. 6
- (b) How object is works in Object-Oriented Programming ? Explain the characteristics with example. 10
- 3. (a) How data types important in C++ ? Explain with example. 6
- (b) How array differ string ? Explain with example. 5
- (c) What is recursion ? Explain with example. 5

UNIT - II

- 4. (a) What is Ambiguity in single Inheritance ? How to avoid Ambiguity ? Explain with example. 8
- (b) How Constructor differ from normal function ? Explain with example. 8
- 5. (a) How copy constructor works ? Explain with example. 6
- (b) What is Destructor ? How it differ constructor ? Explain with example. 5
- (c) What is virtual function ? Explain. 5

UNIT - III

- 6. (a) What is operator overloading ? Explain unary operator with example. 10
- (b) What is function overloading ? Explain with example. 6
- 7. (a) How exceptional handling important in OOPs ? How exception handling mechanism works ? Explain with example. 10
- (b) What is difference between overloading and overriding ? Explain with example. 6

UNIT - IV

- 8. (a) How templates and standard template library play role in the development of applications using C++ ? Explain with example. 10
- (b) What is overloading of template functions ? Explain. 6
- 9. How file pointer works in C++ ? What are various manipulators ? Explain updating, random access, and errors handling during file operations with example. 16