

67010

MCA 1st Semester (current) CBCS Scheme

w.e.f. 2016-17 Examination,

November/December-2019

OBJECT ORIENTED PROGRAMMING

USING C++

Paper-16MCA-31C5

Time allowed : 3 hours]

[Maximum marks : 80

Note : There shall be nine questions. Question No. 1 will be compulsory and in addition to the compulsory question, students have to attempt four more questions selecting one from each unit. All questions shall carry equal marks.

1. (a) What is iterator ? 8×2=16
(b) What is vector ?
(c) What is resource capture ?
(d) What is object initialization ?
(e) What is static variable ?
(f) What is unexpected exception ?
(g) What is abstract class ?
(h) What is fstream ?

Unit-I

2. (a) How Object-Oriented Programming become important than procedure oriented language ?
Explain the characteristics of OOPs. 10
(b) What is message passing in OOPs ? Explain. 6

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3. Explain the following concepts with suitable example : 4×4=16

- (a) Recursion
- (b) Function
- (c) Structure
- (d) String

Unit-II

4. (a) How Access Specifiers important in Object-Oriented Programming ? Explain all types of Access Specifier with example. 10

(b) How used Destructor ? Explain with example. 6

5. (a) What is Ambiguity in Multiple Inheritance ? How to avoid Ambiguity ? Explain with example. 10

(b) What is constructor ? Explain with example. 6

Unit-III

6. What do you understand by early binding ? How to achieve early binding ? Explain with binary operator overloading example. 16

7. What is Virtual function ? What are main points of Virtual function ? Explain without and Using Virtual Keyword with two suitable example. 16

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Unit-IV

8. How used templates ? What is standard template library available in C++ ? Explain class templates and functions templates with suitable example. 16

9. How works with files in C++ ? Explain creating, opening, closing, and deleting operation on file with example. 16