

MCA.III/11.15.1042

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A

MCA DEGREE III SEMESTER EXAMINATION NOVEMBER 2015

CAS 2303 OBJECT ORIENTED PROGRAMMING WITH C++
(Supplementary)

Time : 3 Hours

Maximum Marks : 50

PART A

(Answer *ALL* questions)

(15 × 2 = 30)

- I. (a) What is an object? How is an object created? Explain its characteristics.
(b) What are operators? Explain different types of operators.
(c) Explain exception handling.
- II. (a) Explain data encapsulation with suitable examples.
(b) Explain function overloading with example.
(c) Explain function with default arguments.
- III. (a) How do you define an inline function?
(b) Explain the significance of static keyword.
(c) How do you define named constants in C++? Give example.
- IV. (a) What is copy constructor? Give suitable example.
(b) How do you create objects dynamically? Give examples.
(c) What is operator overloading? What are the operators that cannot be overloaded?
- V. (a) Compare Inheritance with Composition.
(b) Explain Polymorphism.
(c) What is a function template? What are its advantages?

(P.T.O.)

PART B

(5 × 4 = 20)

- VI. Explain various object oriented concepts supported by C++.
- OR**
- VII. Explain major data types supported by C++ with suitable examples.
- VIII. Explain storage classes with example.
- OR**
- IX. Explain constructor overloading with example.
- X. Explain namespace with example.
- OR**
- XI. What is dynamic binding? Explain with example.
- XII. Briefly explain coupling and cohesion.
- OR**
- XIII. Write a class for complex number with overloaded operator services for addition and subtraction.
- XIV. Explain different types of inheritance with suitable examples.
- OR**
- XV. Explain virtual function with example.
