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MCA DEGREE III SEMESTER EXAMINATION DECEMBER 2014**CAS 2303 OBJECT ORIENTED PROGRAMMING WITH C ++**
(Regular and Supplementary)

Time: 3 Hours

Maximum Marks: 50

PART A(Answer *ALL* questions)

(15 x 2 = 30)

- I. (a) Explain inline function with example.
(b) What is Compound Assignment Operators?
(c) What is an array? How multidimensional arrays can be defined?
- II. (a) Explain static member functions.
(b) Explain copy constructor.
(c) What is container class?
- III. (a) How an object can be created dynamically?
(b) What is the use of this pointer?
(c) Distinguish between inheritance and composition.
- IV. (a) Compare static binding and dynamic binding.
(b) Explain pure virtual function.
(c) Write a note on casting.
- V. (a) What is function template?
(b) Write a note on namespace.
(c) Explain exception and its types.

PART B

(5 x 4 = 20)

- VI. What are the features of object oriented programming?
OR
- VII. Explain storage classes with example.
- VIII. What is a constructor? Explain its types with example.
OR
- IX. Explain friend function with an example.
- X. Write a programme for addition of complex numbers using operator overloading.
OR
- XI. Explain the different types of inheritance.
- XII. What is virtual function? What are the rules for virtual function?
OR
- XIII. Explain abstract classes with example.
- XIV. Explain with an example how function templates can be overloaded.
OR
- XV. How exceptions are handled in C++?