MCA.II/05.15.0390 Reg. No. | | | | | | | | |

B

M.C.A. DEGREE II SEMESTER EXAMINATION MAY 2015

CAS 2202/2203 OBJECT ORIENTED PROGRAMMING WITH C++

(2008 Scheme-Regular)

Time: 3 Hours Maximum Marks: 50

PART A

(Answer *ALL* questions)

(15 × 2 = 30)

I. (a) List the differences between procedural oriented programming and object oriented programming.
(b) What is mean by abstraction? Explain with a suitable example.
(c) Explain inline functions.

II. (a) Differentiate class and object in object oriented programming.
(b) Explain friend function.
(c) Write short notes on container classes.

III. (a) Explain operator overloading.
(b) Write a program to overload any unary operator.
(c) Differentiate between inheritance and composition.

IV. (a) Explain static and dynamic binding.
(b) What is meant by an abstract class?
(c) What is meant by virtual function?

V. (a) What is meant by generic programming?
(b) What are the tasks performed during exception handling?
(c) Write short notes on Name space.

PART B

(5 × 4 = 20)

VI. Explain different control statements in C++.

OR

VII. Explain function overloading with example.

VIII. Explain static member variable and static functions.

OR

IX. Explain the terms:
i) Constructors
ii) Destructors

X. Write short notes on:
i) New and Delete operators
ii) this pointer

OR

XI. What is inheritance? What are the different types of inheritance?

XII. Explain polymorphism.

OR

XIII. Write short notes on:
i) pure virtual functions
ii) casting
iii) object slicing

XIV. Explain class template and function template and various ways of overloading function template.

OR

XV. What is an exception? Write syntax of exception handling code in C++? Explain the keywords used and the working.

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