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GAI-611 Seat No. 1260

B. C. A. (Sem. III) Examination

November/December - 2015

BCA-301 : Object Oriented Programming Using 'C++'

Time : 3 Hours] [Total Marks : 70

1 (a) Do as directed : 6

(i) .cpp is the extension of C++ program?

(ii) C++ is called procedure oriented programming. (True/False)

(iii) While is called 'entry control loop'. (True/False)

(iv) Class by default used private specify. (True/False)

(v) C++ is called modular programming. (True/False)

(vi) Class declares with keyword class.

(b) Attempt the following. (any three) 12

(i) Explain object, inheritance, encapsulation, and polymorphism.

(ii) Explain 'Nested if.... else' statement with example.

(iii) Write a C++ program to show scope resolution operator.

(iv) Write a short note on C++ data types.

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2 (a) Do as directed : 5

(i) Constructor and class name will be same. (True/False) (Tilde sign)

(ii) Destructor declares with ~ symbol.

(iii) Static data member declare with static symbol.

(iv) Friend function declares with friend keyword.

(v) Static data member provide the common memory. (True/False)

(b) Attempt the following.(any three) 12

(i) Explain function overloading with example.

(ii) Explain array of object with example.

(iii) Explain parameterized constructor with example.

(iv) Explain inline function.

3 (a) Do as directed : 6

(i) Define: operator overloading, type casting.

(ii) How many argument are required to overloaded unary operator using friend Function 3

(iii) List out operator which is not overloaded.

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(b) Attempt the following.(any three) 12

(i) Explain type conversions basic to class with example.

(ii) Explain type conversions class to class with example.

(iii) Write a C++ program unary operator overloading as a member function.

(iv) Write a C++ program binary operator overloading as a member function.

4 (a) Do as directed : 5

(i) What is inheritance?

(ii) What is pure virtual function?

(iii) What is abstract class?

(iv) List out types of inheritance.

(v) What is virtual function?

(b) Attempt the following.(any three) 12

(i) Explain single inheritance with suitable example.

(ii) Explain multilevel inheritance with suitable example.

(iii) Explain 'this pointer'.

(iv) Write a C++ program to show virtual function.

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