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AAF-601 Seat No. 1367

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

October/November - 2016

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

Time : 3 Hours] [Total Marks : 70

1 (a) Do as directed : 6

(i) What is class?

(ii) Define: Dynamic binding.

(iii) What is bool data type?

(iv) What is the use of delete operator?

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

(vi) What is object?

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

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

(ii) Compare: Procedural Oriented Language v/s Object Oriented Language.

(iii) Explain the memory management operator.

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

2 (a) Do as directed : 5

(i) What is the use of Destructor?

(ii) What is function prototyping?

(iii) Difference between Call by value and Call by reference.

(iv) What is overloaded constructor?

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

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

(i) Write short note on static data members.

(ii) Explain array of object with example.

(iii) Explain function overloading with example.

(iv) Explain copy constructor with example.

3 (a) Do as directed : 6

(i) How to define operator function ?

(ii) It is necessary to overload an operator? Why?

(iii) List out operator which is not overloaded.

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

(i) Explain string manipulation using operator overloading.

(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 overload binary plus operator.

4 (a) Do as directed : **5**

(i) What is static linking?

(ii) What is visibility modifier?

(iii) What is abstract class?

(iv) List out types of inheritance.

(v) What is virtual function?

(b) Attempt the following. (any two) **12**

(i) Explain single inheritance with suitable example..

(ii) Explain multilevel inheritance with suitable example.

(iii) Explain virtual base class with example.
