TRIBHUVAN UNIVERSITY
FACULTY OF MANAGEMENT
Office of the Dean
2011

Full Marks: 40
Time: 2 hrs

BIM / Third Semester / ITC 216 : Object Oriented Programming

Candidates are required to answer the questions in their own words as far as practicable

Group 'A'

1. Brief Answer Questions: **[10x1=10]**

   i.   List the methods of using namespace.
   ii. What is the advantages of using template?
   iii. When is seekg function used in program?
   iv. When is it impossible to create object of the class?
   v.   How can you resolve the ambiguity that occurs in multiple inheritance?
   vi. Write down the different types of conversions that cannot be handled by the compiler.
   vii. What is stored in "this" pointer?
   viii. What is a overloaded function?
   ix. Define manipulator.
   x.   List the major characteristics of object oriented language.

Group 'B'

Short Answer Question (any five):   **[5x3=15]**

   2. Define containership with example.
   3. Write a program to add private data members of two classes using a friend function.
   4. Differentiate between C and C++.
   5. What is CRC? Give an example of class diagram.
   6. Explain virtual base class.
   7. Write a program that overload the operator + to add two heights with data member cm(int).

Group 'C'

Long Answer Question (any three)   **[3x5=15]**

   8. Create classes called Amount1, Amount2, and Amount3. Amount1 has data member Rs(float), Amount2 has data member Paisa(int) and Amount3 has data member Dollars(Float). The classes must be defined in such a way that it is possible to convert Amount2 into Amount1 and Amount1 into Amount3.

   9. Create classes called person and player. The class person does not have data member and player has data member height(int). From these classes derive a class called cricketer with data member runs(int). All the classes must have read and display functions and the program must be implement using runtime polymorphism.

   10. Write a program that writes the 10 records of Book into file "KLM.No" then display only the 4th record stored in that file.

   11. Is it possible to convert a function with default argument into a number of overloaded functions without default argument? Justify your answer with suitable example.

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