BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-revised)

01031

SET - 2

Term-End Practical Examination June, 2013

CS-72P : C++ AND OBJECT ORIENTED PROGRAMMING

Time allowed : 2 hours

Maximum Marks: 100 (Weightage : 15%)

Note :

- There are two compulsory questions of 40 marks each. Rest 20 marks are for (i) viva-voce.
- You must write the appropriate main() function and test your programs. (ii)
- (iii) Write/print the programs, input and result on your answer-sheet.
- (iv) Make and state suitable assumptions, if any.
- Design and implement a class named "Vector 5D" using C++ which stores a 1. 40 hypothetical vector having 5 components, you may assume these components as V[1], V[2], V[3], V[4] and V[5]. The class should use array to store these components. The class should have necessary constructors and member functions. In addition, the class has an overloaded + operator which adds two vectors component by component. Write appropriate main () function that adds two such vectors and shows the output of the resultant vector.

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2. Consider the following hierarchy along with suggested data member for the classes 40



Design and implement the classes in the hierarchy using C++. You may add more data members in the classes, if needed. You should include at least one constructor in each class. All the classes should have a member function print-applicant - info () which prints all the data of the object. You must demonstrate polymorphism using print - applicant - info () and appropriate main () function.

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