BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination 00796

June, 2011

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

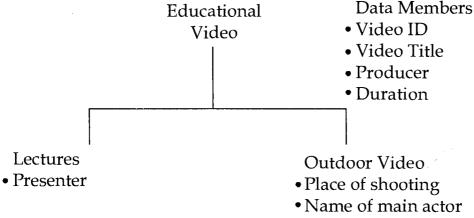
Time allowed: 2 hours

Maximum Marks: 100

(Weightage: 15%)

General Instructions:

- (i) There are two compulsory questions in this paper of 40 marks each. Rest 20 marks are for viva-voce.
- (ii) You must write the appropriate main() function and test your programs.
- (iii) Write/print the programs, input and results on your answer-script.
- (iv) Make and state suitable assumptions, if any.
- Design and implement a class using C++ that stores the length and width of a rectangle. The class has a constructor and a member function that calculates the area of the rectangle. Also implement a overloaded minus (-) operator that finds the difference in the areas of two rectangles. Write appropriate main () function that demonstrates all the functions of the class.
- 2. Consider the following hierarchy along with suggested data members for classes: 40



Design and implement the classes related to the hierarchy given above using C++. You should include at least one constructor in each class. Also implement a member function printvideoinfo() that prints all the details relating to an object of that class. You should demonstrate polymorphism using printvideoinfo() function and appropriate main () function.