

BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination 00859

June, 2010

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

Time allowed : 2 hours

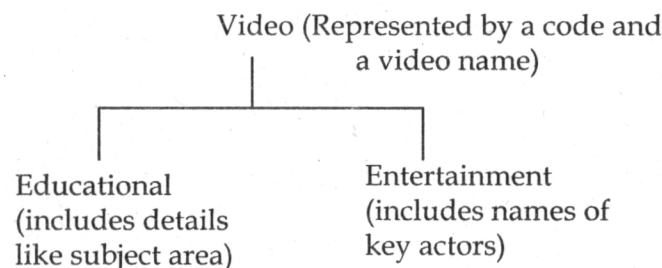
Maximum Marks : 100

(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.

1. Design and implement a class "point" that represents a two dimensional point using x and y co-ordinates. The class also have a constructor that initialised point to a default value. The class have an overloaded – (minus) operator that finds the distance between two points. In addition, the class has a function to print the co-ordinates of a point. 40
2. Consider the following class hierarchy 40



Design and implement the classes as above using C++. You must include the following in your implementation :

- Each class should have proper member variables
- Each class should have at least one constructor
- The classes should include a function that uses polymorphism to print the details of all the video programmes.

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