SET - 8

BACHELOR IN COMPUTER APPLICATIONS (BCA Revised) Term-End Practical Examination 00356

June, 2011

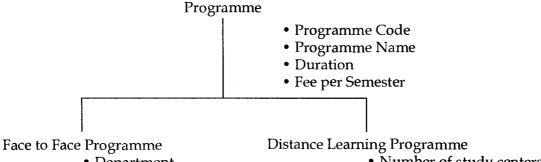
CS-72P : C++ AND OBJECT ORIENTED PROGRAMMING

Time allowed : 2 hours

Maximum Marks: 100 (Weightage : 15%)

General Instructions :

- There are two compulsory questions in this paper of 40 marks each. Rest 20 marks *(i)* are for the viva-voce.
- You must write the appropriate main() function and test your programs. *(ii)*
- (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 "line-segment" using C++. The class stores the information 1. 40 of the two end points of the line segments using *x* and *y* dimensions. The class should have a constructor and a function that calculates the length of the line segment. Also implement the appropriate main() function to demonstrate the constructor and other function of the class.
- 2. 40 Consider the following hierarchy along with suggested data members of classes :



• Department

• Number of study centers

Number of classrooms

Design and implement the classes in the hierarchy using C++. You may add more data members in the classes, if needed. You may include at least one constructor in classes, if required. Also implement a function print-programme-info() that prints the details of the related object. You should demonstrate polymorphism using the print-programme-info() and appropriate main() function.