SET - 4

BACHELOR OF COMPUTER APPLICATIONS (BCA)
(Pre-revised)
Term-End Practical Examination
December, 2013

00161

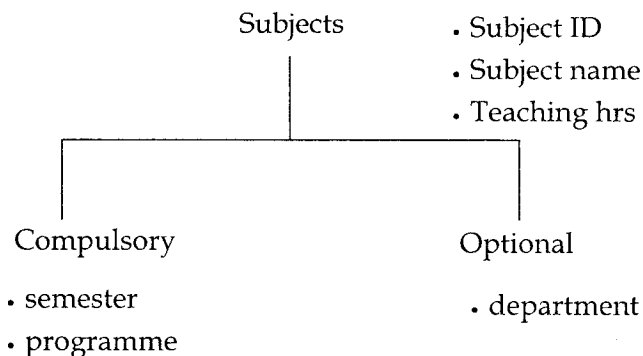## CS-72 (P) : C++ AND OBJECT ORIENTED PROGRAMMING

Time allowed : 2 hours   *Maximum Marks : 100*
(Weightage : 15%)

Note : (i)   There are **two compulsory** questions of **40** marks each. Rest **20** marks for *viva-voce*.

(ii) *You must write appropriate main( ) function and test your programs.*

(iii) *Write/print your programs, input and results on your answer sheet.*

(iv) *Make and state suitable assumptions, if any.*

1. Design and implement a class customer using C + +. The class stores customer name, **40** address and phone numbers of a customer. The class should have a constructor and a member function that displays the information of a customer object. Write the main ( ) function that stores a list of five customers in an array, and prints the list of customers.

2. Consider the following hierarchy along with suggested data members for the classes :   **40**

Subjects
- Subject ID
- Subject name
- Teaching hrs

Compulsory
- semester
- programme

Optional
- department

Design and implement the classes in the hierarchy using C + +. You may add more data members in the classes, if needed. Include at least one constructor in each class. Implement a function display–subject–info ( ) in every class which displays all the information of object of that class. Write appropriate main ( ) function that demonstrates polymorphism while using function display–subject–info ( ).

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