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

Term-End Practical Examination

December, 2016

CS-72(P)/S2 : C++ AND OBJECT ORIENTED PROGRAMMING

Time : 2 Hours   *Maximum Marks : 100*

(Weightage : 15%)

Note : (i) *There are two **compulsory** questions in this paper carrying 40 marks each. Rest 20 marks are 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.*

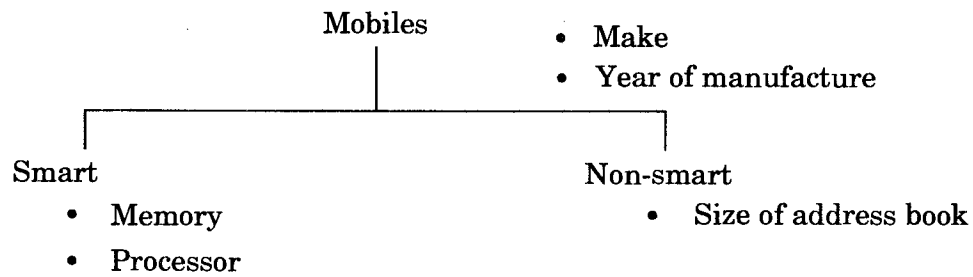(iv) *Make and state suitable assumptions, if any.*

1. Design and implement a class "MRO" using C++. The class should store the name, qualification, experience and salary of machine room operators (MRO). The class should have the following two member functions :

(i) A function that inputs data in the data members of an object.

(ii) A function that displays all the information stored in an object.

Write appropriate main( ) function that uses an array to create a list of three "MRO" objects. The main( ) function should demonstrate all the functions of MRO class. You must store meaningful values in the objects.   *40*

2. Consider the following class hierarchy along with suggested data members :

Mybobiles
- Make
- Year of manufacture

Smart
- Memory
- Processor

Non-smart
- Size of address book

Design and implement the classes in given 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 one member function "print_mobile_info( )" which should display all the data of that object. You must demonstrate polymorphism using "print_mobile_info( )" and "main( )" functions. *40*

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