

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

**Term-End Practical Examination**

**June, 2017**

00168

**CS-72(P)/S1 : 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.*
- 

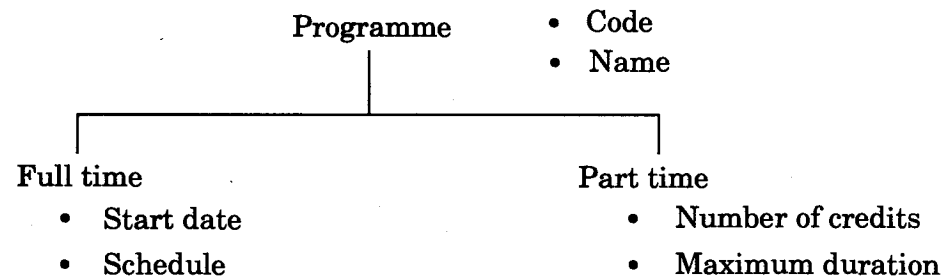
1. Design and implement a class "Phone" using C++ having the following features :

- The "Phone" class will store information about the brand, size, RAM size and storage space of the mobile device.
- The class should have the following member functions :
  - (a) A member function to put values in the data members of the object.
  - (b) A member function that displays the data stored in the data members.
  - (c) A member function that displays only the RAM size if the size is above 2 GB.

Write appropriate `main( )` function that creates an array of three "Phone" class objects. `Main( )` should demonstrate all the member functions. You must store meaningful values in the objects.

40

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



Design and implement the classes in the hierarchy using C++. You may add more data members in the classes. You should include at least one constructor in each class. All the classes should have one member function `print_programme_info()` which should display all the information of that object. You must demonstrate polymorphism using the `print_programme_info()` and `main()` functions.

40