

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

00445

Term-End Practical Examination

June, 2017

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

Time : 2 Hours

Maximum Marks : 100

(Weightage : 15%)

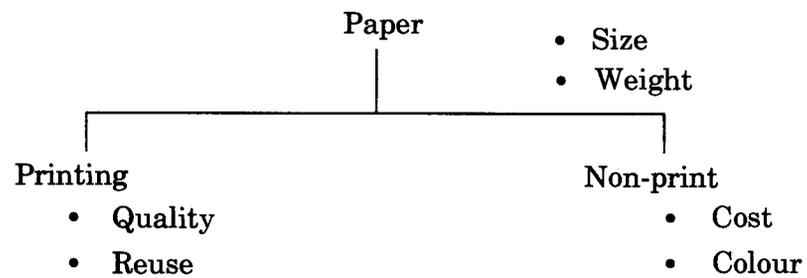
-
- Note :**
- (i) *There are two **compulsory** questions in this paper carrying 40 marks each. Rest 20 marks are for viva-voce.*
 - (ii) *You must write appropriate main() function and test your programs.*
 - (iii) *Write / print your programs, input and results on your answer-sheet.*
 - (iv) *Make and state suitable assumptions, if any.*
-

- 1.** Design and implement a class "Project" using C++. The class should have the following features :
- The data members of the class should be Project Name, Coordinator Name and Duration of project.
 - The member functions of the class should include :
 - (a) A function that inputs data into data members of an object.
 - (b) A function that displays data members of the object.
 - (c) A function that lists the name of the project if its duration is more than a specified duration.

Write appropriate main() function that uses an array to create a list of three "Project" objects. The main() function should demonstrate all the functions of "Project" class. 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 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_paper_info()`” which should display all the data of that object. You must demonstrate polymorphism using `print_paper_info()` and `main()` functions.

40