

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

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Term-End Practical Examination

June, 2015

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

Time : 2 Hours

Maximum Marks : 100

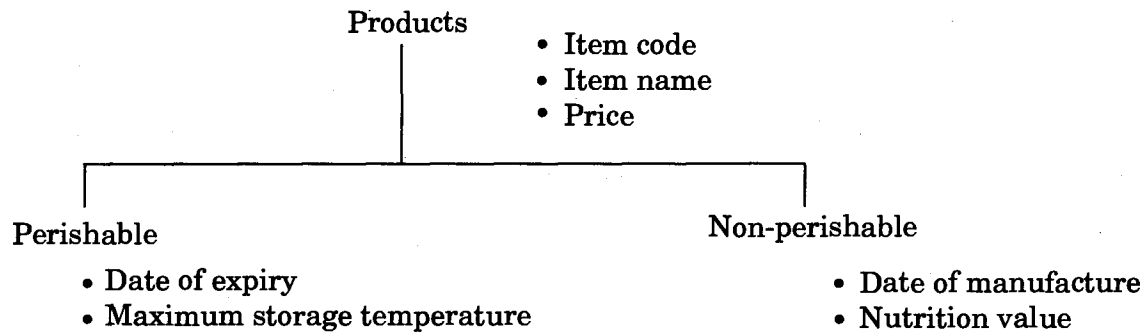
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- Note :**
- (i) *There are two compulsory questions in this paper carrying 40 marks each. Rest 20 marks are for viva-voce.*
 - (ii) *You must write appropriate main() function and test your programs.*
 - (iii) *Write/print the programs, input and results on your answer-sheet.*
 - (iv) *Make and state suitable assumptions, if any.*
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1. Design and implement a class named "Examination" using C++. The class should store the subject name, date of exam, time of exam, duration, and maximum marks. The class has two member functions — first for input of information to an object and second for display of information of an object. Write appropriate main() function that creates a list of five examination class objects in an array. The main() function should include a code that accepts an input — "Subject name" and displays the content of the object where the subject name of the object matches the input value.

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



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

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