

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

**(BCA)**

**Term-End Practical Examination**

**June, 2015**

**CS-72(P)/S3 : C++ AND OBJECT ORIENTED PROGRAMMING**

*Time : 2 Hours*

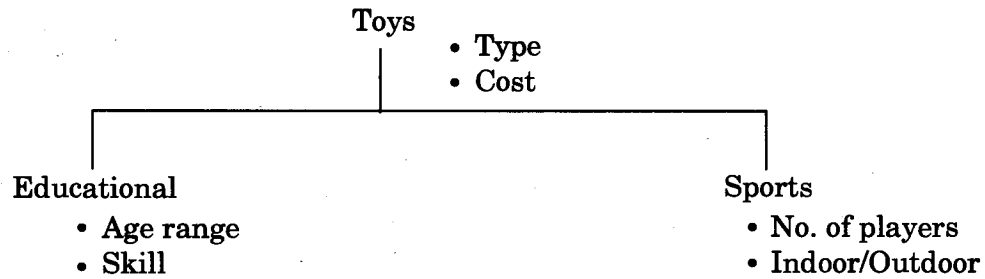
*Maximum Marks : 100*

*(Weightage : 15%)*

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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 "Event" using C++. The class data members should include event name, event type, event date and event venue. The class should have two member functions — first to input information into an object and second for display of information of an object. Write appropriate main() function that creates five event objects in an array. Also write a code in main() that accepts an event name as input, searches this event name from the array of event objects and displays all the information of that event, if found. 40

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



Design and implement the classes in the 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 a member function `print_toy_info()` which displays all the information of the object of that class. You should demonstrate polymorphism using functions `main()` and `print_toy_info()`.

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