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06CS44

Fourth Semester B.E. Degree Examination, June/July 2011
Object Oriented Programming With C++

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART A

- 1 a. Give a comparison of C and C++ with an example. (06 Marks)
b. What is function overloading? Explain with an example. (06 Marks)
c. Define Objects. Create a class FLOWER with following characteristics : Name, Color, Price. Display the names of all flowers costing more than 25 rupees. (08 Marks)
- 2 a. Explain how you can overload member functions with an example. (06 Marks)
b. How you can make member functions inline? Give an example. (06 Marks)
c. Write a C++ program to sort the list of students depending on their holl numbers. (08 Marks)
- 3 a. What are the disadvantages of static allocation and deallocation? (06 Marks)
b. Explain constructors with an example. (08 Marks)
c. What are destructors? Give the prototype for destructors. What is the difference between constructors and destructors? (06 Marks)
- 4 a. What is inheritance? Mention different kinds of inheritance. Explain any two. (08 Marks)
b. Explain the order in which constructors and destructors are involved. (06 Marks)
c. Can friendship be inherited? Explain with example. (06 Marks)

PART B

- 5 a. Explain how you can define pure virtual functions with an example. (06 Marks)
b. Explain the class hierarchy for handling streams with a neat diagram. (08 Marks)
c. Explain how you can create virtual functions with an example. (06 Marks)
- 6 a. Write short notes on :
i) Role of eofbit, failbit and badbit in error handling
ii) The eof() function (06 Marks)
b. What are the rules for operator overloading? Explain briefly. (08 Marks)
c. Explain how you can overload relational operators through friend function. (06 Marks)
- 7 a. Explain the overloading of 'new' and 'delete' operators. (08 Marks)
b. Explain how assignment operator is overloaded. (06 Marks)
c. Explain the overloading of insertion operator. (06 Marks)
- 8 a. What are new style cast operators? Give general syntax. (06 Marks)
b. Give the general syntax for creating function templates. Explain with an example. (06 Marks)
c. Explain overloading of a function template with an example. (08 Marks)

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important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.

