

B.C.A. (II Semester) Examination, March 2011
OOPS WITH C++

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) Answer **all** questions in Part – A, **6** out of **8** questions in Part – B and **3** out of **5** questions in Part – C.
2) Part – A : Questions from **1** to **8** carry **1** mark and **9** to **14** carry **2** marks **each**.
3) Part – B : **Each** question carries **5** marks.
4) Part – C : **Each** question carries **10** marks.

PART – A

1. What is the relation of class and object ?
2. List the operators supported by C++.
3. What is an array ? How do you declare it ?
4. List the data types supported by C++.
5. What is a destructor ? How is its purpose ?
6. List all arithmetic and relational operators.
7. Write an example for operator overloading.
8. What is the difference between multiple and multilevel inheritance ?
9. What is abstract class ?
10. What is encapsulation ?
11. What do you mean by scope of variable ?
12. What is a function ? Write its general form.
13. What is empty constructor ?
14. What is a template ? Write its general form.

P.T.O.

PART – B

1. With the help of an example explain friend function.
2. Using arrays write a program to find the smallest of 'n' nos.
3. Compute salary for an employee, store the details of an employee such emp-name, BASIC, HRA = 12% BASIC, DA = 50% BASIC, GROSS = BASIC + HRA + DA in a input file. Let the output be printed in separate output file.
4. What do you mean by pointers to structures ? Explain.
5. How do you create array of objects ? Explain.
6. Write the rules followed to create a constructor function.
7. How do you overload the extraction and insertion operators ? Explain.
8. Explain single level, multiple and multilevel inheritance.

PART – C

1. Explain different types of operators supported by C++.
2. With the help of an example explain while loop and for loop.
3. Explain the concept of structures and write a program to generate student marks card using structures.
4. Explain constructor overloading and operator overloading with the help of an example program.
5. Explain exception handling with the help of an example program.

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