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Total No. of Pages: 02

Total No. of Questions: 15

MBA (2012 & Onwards) (Sem. – 4)

PROGRAMMING IN C++

M Code: 71400

Subject Code: MBA-986

Paper ID: [A2546]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A contains SIX questions carrying FIVE marks each and students has to attempt any FOUR questions.
2. SECTIONS-B consists of FOUR Subsections : Units-I, II, III & IV. Each Subsection contains TWO questions each carrying EIGHT marks each and student has to attempt any ONE question from each Subsection.
3. SECTION-C is COMPULSORY and consist of ONE Case Study carrying EIGHT marks.

SECTION A

1. Distinguish between abstraction and encapsulation.
2. Write a C++ function using reference variables as arguments to swap the values of a pair of integers.
3. How friend functions are useful? Explain.
4. What are constructors? Explain.
5. What is polymorphism? Explain.
6. What do you mean by file pointer? Explain.

SECTION B

UNIT I

7. Write a program in C++ to read two numbers from the keyboard and display the largest value on the screen.
8. What is object oriented programming? What are its key characteristics? Explain.

UNIT II

9. What is a reference variable? Explain the advantages of a reference variable.
10. What are the operations permissible on pointers? Explain.

UNIT III

11. What are the characteristics of a constructor and destructor? Explain.
12. What are inline functions? How they compare with normal functions? Explain.

UNIT IV

13. Given a text file containing some text. Write a program that prompts the user to input name of a text file, reads this file and replaces each occurrence of character 'x' with uppercase 'X'.
14. What is operator overloading? What are the rules that govern the operator overloading? Explain.

SECTION C

15. Assume that a bank maintains two kinds of accounts for customers, one called as savings account and the other as current account. The savings account provides compound interest and withdrawal facilities but no cheque book facility. The current account provides cheque book facility but no interest. Current account holders should also maintain a minimum balance and if the balance falls below this level, a service charge is imposed. Create a class *account* that stores customer name, account number and type of account. From this derive the classes *cur_acct* and *sav_acct* to make them more specific to their requirements. Include necessary member functions in order to achieve the following tasks:
 - a) Accept deposit from a customer and update the balance,
 - b) Display the balance,
 - c) Compute and deposit interest,
 - d) Permit withdrawal and update the balance.