

Roll No.					Total No. of Pages : 03

Total No. of Questions: 15

MBA (2016 to 2017) (Sem.-4) PROGRAMMING IN C++

Subject Code: MBA-986 M.Code: 71400

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 1. SECTION-A contains SIX questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 2. SECTION-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 carrying EIGHT marks.

SECTION-A

- Q1. Differentiate between break and continue statement. Give example of each.
- Q2. Define Pointer with suitable example. Highlight the difference between the pointer and reference variable.
- Q3. What is an inline function? Discuss advantages, disadvantages of inline function.
- Q4. What is constructor overloading? What is benefit of constructor overloading?
- Q5. Describe in brief the role of seekp(), seekg(), tellp(), tellg() in file handling.
- Q6 What is virtual function? What is the need of virtual functions?

SECTION-B

UNIT-I

- Q7 a) Compare the use of the if else statement with the use of the ? : operator. In particular, in what way can the ? : operator be used in place of an if else statement.
 - b) What is the purpose of the switch statement? How does this statement differ from the other decision making statements?

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- Q8. Define the terms:
 - 1. Data encapsulation
 - 2. Data hiding
 - 3. Data abstraction
 - 4. Inheritance
 - 5. Polymorphism
 - 6. Objects
 - 7. Class
 - 8 Member function

UNIT-II

- Q9. How is a pointer variable declared? What kind of information is stored by a pointer variable? Differentiate between call by value and call by address with suitable example.
- Q10. Explain the concept of passing one dimensional, two dimensional arrays through functions with suitable example of each.

UNIT-III

- Q11. Explain the visibility of base class members for the access specifiers: private, protected and public while creating the derived class and also explain the syntax for creating derived class.
- What is the role of constructor and destructor? Write a C++ program to define a suitable parameterized constructor with default values for the class distance with data members feet and inches

UNIT-IV

- Q13. Define Function Overloading. Write a C++ program to define three overloaded functions to swap two integers, swap two floats and swap two doubles.
- Q14. Define the term file. Write a C++ program to read text file and perform following operation
 - 1. Display count of character in file
 - 2. Display count of new line in file.

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SECTION-C

Q15. Create a class named *Student* with the following specifications:

An instance variable named *name* to hold a student's name

An instance variable named *rollno* to hold a student's roll number

An instance variable named *scores* to hold a student's 5 exam spores.

Avoid input() function that reads 5 integers and saves them to *scores*

An int calculateTotalScore() function that returns the sum of the student's scores.

A void search() function to search a student record based on name and print its record i.e name,rollno, scores.

Inside main() function create array of objects and call all functions to simulate the program

(Note: take necessary assumptions where required)

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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