Computer Programming -

20/12/08

15 : F-1stHf08.

Con. 3731-08.

(REVISED COURSE)

(3 Hours)

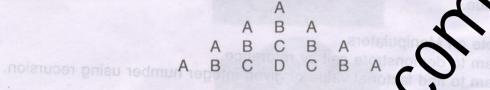
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N.B. (1) Question No. 1 is compulsory.

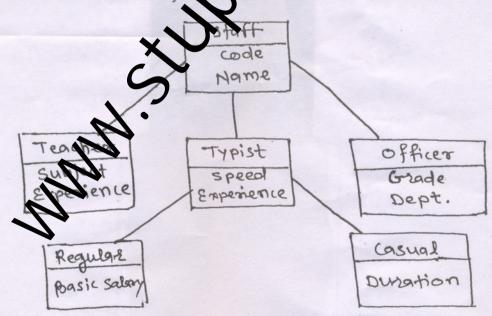
F.E. Sem I (Rev)

All branches

- (2) Attempt any four questions from the remaining.
- (a) Explain logical operators. Write a C++ program to demonstrate the same.
 (b) Write a program to display following pattern using nested loops :- 10



- 2. (a) Write a program to sort an array of integer numbers in descending order using bubble 10 sort.
 - (b) What are inline functions ? Discuss its advantages and disadvantages. Write a 10 program to demonstrate inline function.
 - 3. (a) An education institution wishes to maintain a database of its employees. The database 10 is divided into a number of classes, as shown below. Specify all the classes and define functions to create a database and retrieve inividual information as and when required. Assume necessary data.



- (b) What is virtual function ? What is the need of virtual function ? Write a program to 10 demonstrate the same.
- 4. (a) Write a program to find sum of diagonal elements of 3 * 3 matrix.
 (b) Explain the benefits of object oriented programming.
 (c) Distinguish between Function Overloading and Operator Overloading.

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- 5. (a) Write a program to overload "+ =" operator to add two distances given in feet and sinches.
 - (b) Develop your own functions for performing following operations on s
 - (i) Copying one string to another
 - (ii) Adding one string to the end of another.
 - (c) Explain the following with example :---
 - (i) break
 - (ii) continue.
- 6. (a) Write short note on Manipulators.
 - (b) Write a program to demonstrate call by reference.
 - (c) Write a program to find factorial value of given integer number using recursion.
- 7. (a) Write a program is check the entered number is prime or not. BIDDIA & Off W (a)
 - (b) Write a plequant to declare integer pointer. Store 10 numbers in the pointer. Use new operator to allocate memory for 10 integers. Read and display the numbers.
 (a) White a plequant place 2. Further, with example.
 - c) What is abstract class ? Explain with example.

(a) An education institution with as in realitating database of its employees. If a database is divided into a number of elesses as shown below. Specify all the classes and define functions to create a database sade move invidual information as and when

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