## F.E. Sem I (Rev)

 All branches15: F-1stHf08.
Con. 3731-08.

Computer Programming -I $20 / 12 / 08$
(REVISED COURSE)
RC-9020
(3 Hours)
[ Total Marks : 100
N.B. (1) Question No. 1 is compulsory.
(2) Attempt any four questions from the remaining.

1. (a) Explain logical operators. Write a C++ program to demonstrate the same.
(b) Write a program to display following pattern using nested

2. (a) Write a program to sort an array of integer numb in descending order using bubble sort.
(b) What are inline functions ? Discuss its ava es and disadvantages. Write a 10 program to demonstrate inline function.
3. (a) An education institution wishes to main an abase of its employees. The database is divided into a number of class, s own below. Specify all the classes and define functions to create a datab and retrieve inividual information as and when required. Assume necessary

(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. 8
(b) Explain the benefits of object oriented programming. 8
(c) Distinguish between Function Overloading and Operator Overloading. 4

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5. (a) Write a program to overload " $+=$ " operator to add two distances give fee and inches.
(b) Develop your own functions for performing following op ratio so sty ings:-
(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 Manizulaters.
(b) Write a program to demar tra d reference.
(c) Write a program to fin walue of given integer number using recursion.
7. (a) Write a prog ,ck the entered number is prime or not.
(b) Write apr an declare integer pointer. Store 10 numbers in the pointer. Use
(c) W I Dostract class ? Explain with example.

