



12137/A 210

Reg. No.

--	--	--	--	--	--	--	--

**First Semester B.C.A. Degree Examination, Oct./Nov. 2013
COMPUTER CONCEPTS AND C PROGRAMMING (Repeaters)**

Time : 3 Hours

Max. Marks : 80

Instruction : Answer any five full questions.

1. a) What is computer ? Draw a neat block diagram of computer and explain its components.
b) Differentiate primary memory and secondary memory. **(8+8)**

2. a) Define an algorithm. Write its characteristics.
b) Write the basic structure of 'C' program and explain.
c) Define the terms constant and variable. **(4+8+4)**

3. a) Convert the following expressions into 'C' expressions
i) $\left(\frac{x}{y}\right)^{n-1}$ ii) $\sqrt{\frac{x^2+y^2}{2}}$
b) Write an algorithm to find sum of natural numbers upto n.
c) Explain any four C-operators. **(4+4+8)**

4. a) Explain briefly branching statements in 'C'.
b) Write a 'C' program to check the given number is prime or not. **(8+8)**

5. a) Explain the following string handling functions.
i) strcpy()
ii) strcat()
iii) strcmp()
iv) strlen()
b) How do you initialise two dimensional array ? Write a 'C' program to subtract two matrices. **(8+8)**

P.T.O.



6. a) What is structure ? How it is different from an array ?
b) Write a 'C' program to accept different goods, numbers, price and date of purchase and display them using structure. **(6+10)**
7. a) What is pointer ?
b) Explain briefly various categories of UDF.
c) Write a 'C' program using function to compute the minimum of two numbers. **(2+8+6)**
8. Write a short notes on :
a) Unformatted I/O functions
b) C-Tokens
c) Flowchart
d) Nested for statement. **(4+4+4+4)**
-