Printed Pages: 3



NCS201

(Following Paper ID and Roll No	o. to be filled	in your Ansv	wer Book)
PAPER ID : 199225	1971 (1181) 1981 (
Roll No.			

B. Tech.

(SEM. II) THEORY EXAMINATION, 2014-15 COMPUTER SYSTEM & PROGRAMMING IN C

Time: 3 Hours] [Total Marks: 100

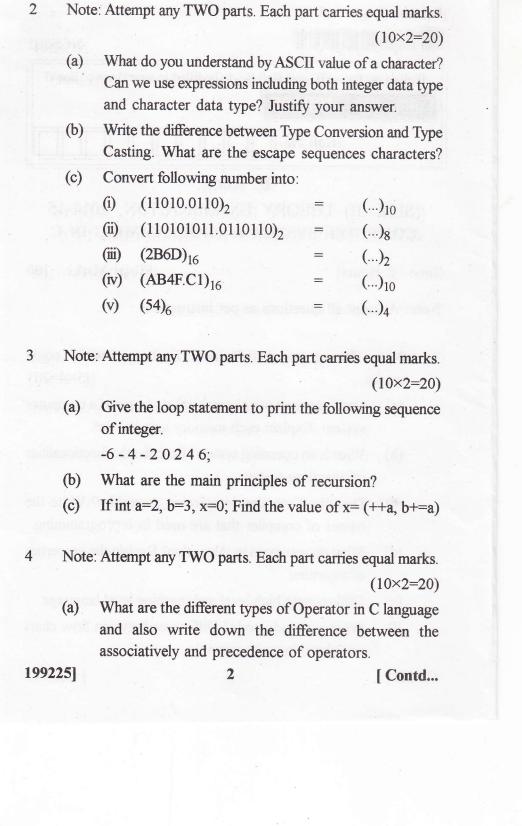
Note: Attempt all questions as per instructions.

- Note: Attempt any FOUR parts. Each part carries equal marks. (5×4=20)
 - (a) Draw the memory hierarchical structure of a computer system. Explain each memory unit in brief.
 - (b) What is an operating system? Describe the functionalities of operating system.
 - (c) Describe Compiler, interpreter, assembler? Write the names of compiler that are used in c programming.
 - (d) What do you mean by Algorithm? Explain the properties of algorithm.
 - (e) Differentiate high level and machine level language.
 - (f) What is pseudo code? Difference between flow chart and algorithm with example.

199225]

1

[Contd...



- (b) (i) What is the role of SWITCH statement in C programming Language? Explain with example.
 - (ii) Distinguish between 'actual & formal arguments' and 'global and extern variables'.
- (c) Describe call by value and call by reference with example.
- 5. Note: Attempt any TWO parts. Each part carries equal marks. (10×2=20)
 - (a) Write a program in C language to generate the Fibonacci series.
 - (b) What do you mean by dynamic memory allocation? Explain the following functions in detail:
 - (i) free.
 - (ii) calloc
 - (c) Write a program to add two matrices of dimension 3 * 3 and store the result in another matrix.