



Printed Pages: 3

NCS201

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID: 199225

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.

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(a)

What do you understand by ASCII value of a character?

 $(10 \times 2 = 20)$

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programming Language? Explain with example. What is the role of SWITCH statement in C

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Can we use expressions including both integer data type and character data type? Justify your answer.

Note: Attempt any TWO parts. Each part carries equal marks

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associatively and precedence of operators.

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w æ Note: Attempt any TWO parts. Each part carries equal marks. 3 B Note: Attempt any TWO parts. Each part carries equal marks 3 If int a=2, b=3, x=0; Find the value of x=(++a, b+=a)What are the main principles of recursion? of integer. Give the loop statement to print the following sequence What are the different types of Operator in C language Convert following number into and also write down the difference between the -6-4-20246; Casting. What are the escape sequences characters? Write the difference between Type Conversion and Type (54)6 (AB4F.C1)₁₆ (2B6D)₁₆ (11010.0110)2 (110101011.0110110)2 (...**)** (...) (...<u>)</u> (10×2=20) $(10 \times 2 = 20)$ <u>ତ</u> 3 Note: Attempt any TWO parts. Each part carries equal marks 3 * 3 and store the result in another matrix Explain the following functions in detail $(10 \times 2 = 20)$

Describe call by value and call by reference with Distinguish between 'actual & formal arguments' and global and extern variables'

Write a program in C language to generate the Fibonacci

What do you mean by dynamic memory allocation?

Write a program to add two matrices of dimension

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