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CS201

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# B. Tech.

(SEM. IV) THEORY EXAMINATION, 2014-15

#### COMPUTER PROGRAMMING

Time: 3 Hours]

[Total Marks: 100

- Note: (1) Attempt all questions.
  - Make suitable assumptions wherever necessary.

## SECTION-A

- Attempt all parts of this question.
- 2x10=20
- (a) Explain the functions of a linker.
  - What is the role of curly braces ({}) in C program.
  - What will be the output of the following program? void main()

int i=1, j=2, k=3; clrscr(); printf("%d",!((j+k)>(i+5)));

(d) What is sizeof () operator? Explain with suitable example.

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in C to find the perfect cubes up to given number. What are the nested loops in C? Write a program As 18,27,64 are perfect cubes of 1,2,3,4,

æ Attempt any three of the following ε

What is a flow chart? Draw the flow chart for finding the greatest element in an array.

Convert the following:

(1100101)2 = 010

(A2F)<sub>16</sub>  $= 0_2$ 

 $(264)_{8}$ (23.72)10 = 02  $= 0_2$ 

(231)4

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3 (e)

statement?

What are the limitations of switch () case Differentiate between "%f" and "%g"

Why does element counting of arrays always start from '0'?

Name the types of storage classes

Differentiate between sequential search and binary What do you mean by system software?

SECTION-B

SECTION-C

Attempt any two of the following What is digital computer? How is it different from

analog computer? Classify the various digital computers.

Differentiate between:

9

CD-R and CD-RW SRAM and DRAM

What are the various approaches to problem solving? Explain any one of them.

0

What is a pointer? Write the advantages and how pointers are declared in C programming. disadvantages of it. Explain with suitable example

<u>c</u>

How are the multidimensional arrays declared in two m×n matrices. C programming? Write a program in C to multiply

<u>a</u>

What are the different loop statements supported the following pattern using for loop and while by C language? Write a program in C to generate

e

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Attempt any two of the following.

2x5=10

- (a) Explain comma and conditional operator in C language with suitable examples.
- (b) Name different categories of constants in C language.
- (c) Write a program in C to check whether a given string is palindrome or not?
- 5 Attempt any two of the following.

2x5=10

- (a) Define the structure and union in C. List the advantages and disadvantages of each.
- (b) Discuss the various parameters passing mechanism used in function in C language.
- (c) What is a string? Write a function in C to find the length of string without using strlen().
- 6 Attempt any one of the following.

1x10=10

- (a) What types of files can be created in C for storing the data? Write a program in C to create and then store the first 30 odd integers in it.
- (b) What are array of pointers? How they are declared and initialised? Using pointers write a program to read and display list of names of students.
- 7 Write short notes on any two of the following. 2x5=10
  - (a) Operating system
  - (b) Defining and calling macros with proper example.
  - (c) Global variables

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