

Printed Pages: 4

* 1 9 9 2 3 9 *							CS201					
(Following Paper ID and Ro	oll No. t	o be	fille	d in	you	r An	swe	r Bo	ok)			
PAPER ID : 199239												
Roll No.												

B. Tech.

(SEM. IV) THEORY EXAMINATION, 2014-15
COMPUTER PROGRAMMING

Time: 3 Hours] [Total Marks: 100

Note:

(1) Attempt all questions.

(2) Make suitable assumptions wherever necessary. **SECTION-A**

1. Attempt all parts of this question.

2x10=20

- (a) Explain the functions of a linker.
- (b) 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 size of () operator? Explain with suitable example.

199239

1

[Contd...

199239]

www.FirstRanker.com

(a)

www.FirstRanker.com

 \mathfrak{S} **e** Differentiate between "of" and "og" What are the limitations of switch () case

statement?

- 8 Why does element counting of arrays always start from '0'?
- Name the types of storage classes

E

Ξ

9

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

SECTION-B

Attempt any three of the following

 $10 \times 3 = 30$

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

 Ξ Convert the following;

 $(1100101)_2 = 0_{10}$

 $(A2F)_{16}$ $(23.72)_{10}$

 $(231)_4$ $(264)_{8}$

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

respectively

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

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

<u>e</u>

What are the different loop statements supported

by C language? Write a program in C to generate

the following pattern using for loop and while

loop.

SECTION-C

Attempt any two of the following

MANN FIRSTRAINKO.

What is digital computer? How is it different from computers. analog computer? Classify the various digital

Differentiate between: SRAM and DRAM

CD-R and CD-RW

<u></u>

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

<u></u>

199239]

[Contd...

Contd...



	•				
4	Attemnt	anv	two	of the	following.
-	Littompt	ully	.,,		TOHO WING.

2x5=10

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

2x5=10

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

1x10=10

- What types of files can be created in C for storing (a) the data? Write a program in C to create and then store the first 30 odd integers in it.
- 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
- Defining and calling macros with proper example. (b)
- (c) Global variables

199239]

4

[2875]