

Printed Pages:3	1029	CS101
(Following Paper I	D and Roll No Answer Bo	o. to be filled in your ook)
Paper ID : 110101	Roll No.	
	B.TECH.	

(SEM. I) THEORY EXAMINATION, 2015-16

COMPUTER PROGRAMMING

[Time:3 hours]

[Total Marks:100]

SECTION-A

- Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)
 - (a) What do you mean by recursion?
 - (b) List various functions of an operating system.
 - c) Differentiate between compiler and linker.
 - (d) Why 'C' programming is called structured programming?
 - (e) Explain struct with suitable example.
 - (f) Write a function in C to exchange the content of two integer variables without using a third variable.
 - (g) What is an algorithm? Discuss basic characteristics of an algorithm.

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(1)

P.T.O.

B

BABA ABA BΑ

Explain the following with example:

Relational operators

(ii) Top-down program development



1800 given number is prime or not. program in 'C' and draw flow chart to find dwhether a Differentiate between while and do-while loop. Write a (2)

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(3)

P.T.O.

Ξ Attempt any five questions from this section What is the meaning of the prototype of a function? Differentiate between machine language & high What do you understand by mixed operands? level language. SECTION-B

Simulate calculator using switch statement

Write a program in C to print the following

Operator precedence

(ii) Array of structures

Attempt any two questions from this section. SECTION-C

Explain logical and bitwise operators with the help suitable example.

10. (a) of

9

Write a C program to multiply two matrices. Take keyboard. the size and elements of matrices from the

What are the types of function? Write a C program to find the factorial of a given number using recursion.

<u>c</u>

How macros are defined & called inc? Explain

6.

the given n positive integers. What do you mean by sorting? Write a programm to sort

Writef short notes on

Linux and windows

(ii) Pointer arithmetic

Explain with example, the syntax and usage of the following in C program.

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- (a) Define data types in C. Discuss primitive data types in terms of memory size, format specifier and range.
 - (b) Discuss the major components of a digital computer with suitable block diagram. Also discuss the functions of these components.
- (a) Differentiate call by value and call by reference with suitable example.
 - (b) Write a program in C to copy the text of one file to another.
 - (c) Writed a programd in C for printing Fibonacci series upto a term given by user using recursion.



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