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2E2303	20077	Roll No Total No of Pages: 3 2E2303 B. Tech. II Sem. (Main) Exam., May – 2018 CS -103 Computer Programming - II				
Time	2:3]	Hours	Maximum Marks: 80 Min. Passing Marks: 28			
	Atte All d nece Uni Use	ons to Candidates: mpt any five questions including Question No. 1, which questions carry equal marks. Schematic diagrams must be s essary. Any data you feel missing suitably be assumed and sto ts of quantities used/calculated must be stated clearly. of following supporting material is permitted during examina entioned in form No.205)	snown wnerever uted clearly.			
1. <u>NI</u>	<u>L</u>	2. <u>NIL</u>				
Q.1	CO	MPULSORY				
	Ans	wers for each sub-question be given in about 25 words.	$[8 \times 2 = 16]$			
•	(a)	Why do we include <stdio.h> in our programs?</stdio.h>				
	(b)	Define a function.				
	(c)	How is an array represented in memory?				
_	(d)	Differentiate between a character and a string.				
	(e)	Differentiate between ptr ++ and * ptr ++.				

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(f)

(g)

(h)

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Differentiate between a structure and an array.

What do you understand by EOF?

statement with valid justification.

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"Structure declaration reserves memory for the structure" Comment on this

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Q.2	(a) ·	How are strings read from the standard input device? Explain the different
		functions used to perform string input operation. [8]
P.	(b)	Write a program in C that replaces a given character with another character in the
		string. http://www.rtuonline.com [8]
Q.3	Writ	e a program to create a structure with the information given below. Then read and
	print	the data. [16]
	(a)	Emp_Id
	(b)	Name-
,		(i) First Name
		(ii) Middle Name
		(iii) Last Name
	(c)	Address-
		(i) Area
		(ii) City
		(iii) State
	(d)	Age
	(e)	Salary
瘊!	(f)	Designation
Q.4	(a)	What is the advantage of using structures? Differentiate between a structure and a
		Union.
	\mathcal{H}^{-p}	
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(b) What is dynamic memory allocation? What are the various fund			in C that are		
		used for dynamic memory allocation? Explain.	[8]		
C),5 (a)	Write a short note on the following functions. For each function, give a program			
		code that demonstrates its usage-	[8]		
		(i) fopen ()			
		(ii) fclose ()			
		(iii) fgets ()			
		(iv) fseek()			
	(b)	Write a program to read data from the keyboard and write it to	a file. Read the		
		contents stored in the file and display it on the screen.	[8]		
Q.	g Wri	te short notes on: http://www.rtuonline.com	[4×4=16]		
	(i)	System software	[4/4-10]		
	(ii)	Compiler			
	(iii)	Loader			
	(iv)	Freeware software			
Q.7	(a)	Write a program using pointers to insert a value in an array.	[8]		
	(b)	Explain the difference between a null pointer and a void point			
		mean by pointer arithmetic?	[8]		
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