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Summer Semester Examination, May - 2019

Course: B. Tech Semester: I Subject Code: CP1204 **Subject Name: Computer Programming in C** Date: 22/05/2019 **Duration: 3 Hr.** Max Marks: 60 **Instructions to the Students:** 1. All Questions are compulsory. 2. Each question carries 12 marks. *3. Figures to the right indicate full marks.* Assume suitable data wherever necessary and mention it clearly. Q. 1 A) Explain different phases in programming process. **(4)** Write an algorithm to calculate factorial of a number. **(4)** C) i) Draw and explain two symbols used to draw a flowchart. **(2)** ii) Define the following: **(2)** a) Compiler b) Linker **Q.2** A) Define variable. What are the rules for constructing the variable name? Is variable name _age **(4)** valid or invalid? **B**) Explain arithmetic operators in C with suitable example. **(4)** OR **B)** Write short note on conditional operator. **(4)** C) i) What will be the output of following program? **(2)** void main() int i = 2, j = 3, k, 1; float a, b; k = i/j * j;1 = i / i * i;a = i/j * j;b = j / i * i;printf("%d %d %f %f", k, l, a, b); ii) What would be the output of the following programs? **(2)** void main() int p = 8, q = 20; if (p == 5 && q > 5)printf ("\nWhy not C"); else printf ("\nDefinitely C !");

Q.3

	A)	Write a program, using function that receives marks obtained by a student in 3 subjects and returns the average of these marks. Call this function from main () and print the results in main ().	(4)
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	A)	Write a program to calculate overtime pay of 10 employees. Overtime is paid at the rate of Rs. 12.00 per hour for every hour worked above 40 hours. Assume that employees do not work for fractional part of an hour.	(4)
	B)	Write the syntax of i) if else statement iii) do while loop iv) while loop OR	(4)
	B)	What is function in C? Write the syntax for function prototype, function definition and function call.	(4)
	C)	i) What would be the output of the following programs?	(2)
		main() { int x = 1; while (x == 1) { x = x - 1; printf("\n%d", x); } }	
		ii) Differentiate between exit() and break.	(2)
Q.4			
	A)	Define Array. What are various types of array? Give the syntax of any two of them.	(4)
	B)	Write a program to read 10 elements by using array and display all the elements in reverse order. Receive the input from the user. OR	(4)
	B	Write a program to find maximum number in an array containing five elements of integer type.	(4)
	C)	Define string in C? Write syntax to declare character array. How to initialize Character array? What is the use of gets () function.	(4)
Q.5			
	A)	Write a program in C to create a structure having named as Books consists of title, author, subject, book_id as its members. Read the details of five books from user and then display the data entered by the user on Screen (Use array of structure).	(6)
	B)	Define a structure named 'State' which contains four fields as name, population, lit_ rate, income. Declare a structure variable as st1. Assign the values for your structure as abc, 100000, 5.8, 6000.00 respectively.	(3)
SON SON	C)	Define structure in C? What are the different ways to declare structure variables?	(3)