## M.Sc. - I (Electronics) (Old / CBCS Pattern) First Semester **ELE104 / PSCELET04 - Core-4 - Paper-IV : Programing In C**

P. Pages: 2 Time: Three Hours			* 3 2 6 0 *	<b>GUG/W/18/11157</b> Max. Marks : 80				
	Notes	s: 1. 2.	All questions are compulsory and carry equal marks.  Draw flow chart whenever necessary.		_			
1.		Either.						
	a)		the character set supported by 'C' language. What are data types es supported by 'C' language.	s? List the various	8			
	b)	Differentiate between constant and variable. Explain any two types of constant used in 'C' and give two examples of each.  OR						
	c)	What is	an operator? Explain any two types of operators with example.		8			
	d)	Explain the syntax of the function scanf() and printf(). Write a program to convert the temperature in Fahrenheit for a given temperature in Celsius.						
2.		Either.						
	a)	-	the concept of branching. State the various branching statement purpose of switch statement? Explain.	s supported by 'C'.	8			
	b)	Write a	program in 'C' to print Floyd's triangle.  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		8			
			OR					
	c)	Explain exampl	while loop with suitable example. What is comma operator? Exe.	plain with	8			
	d)	Difference pyramic	ntiate between if-else and switch statement. Write a program to pl.  1 1 2 1 2 3 1 2 3 4 1 2 3 4 5	orint following	8			

3.		Either.									
	a)	Exp i) iii)	plain the following string functions. strcat() strcpy()	ii) iv)	strcmp strlen()	8					
	b)	What is sorting? Write a program to sort a numeric array using bubble sort technique.									
		OR									
	c)	What is recursion? Explain with example.									
	d)		What is an user defined function? Explain the different types of user defined functions. Write a program in 'C' using function to find largest of three numbers.								
4.		Either.									
	a)	What is a pointer variable? Explain declaration and initialization of a pointer. Give the rules used for pointer arithmetic.									
	b)	Differentiate between call by value and call by reference. Write a program to sort the list of string using pointer.									
		OR									
	c)	What are the command line argument? Explain.									
	d)					8					
			area? Write a program to simulate DOS type command.								
5.		a)	Write a 'C' program to accept decir and hexadecimal.	nal nu	mber and display equivalent number in octal	4					
		b)	Write a 'C' program to generate Fib 112358	onacc	i series upto 10 numbers. Fibonacci series is	4					
		c)	Explain how to write an element in	ito an a	array.	4					
		d)	What are the common uses of rewi	nd and	I ftell functions?	4					
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