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K24FY1313

First Semester FYUGP Computer Science Examination NOVEMBER 2024 (2024 Admission onwards) KU1DSCCAP101 (FOUNDATIONS OF COMPUTERS AND PROGRAMMING)

(DATE OF EXAM: 2-12-2024)

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l'ime	90 min Tros (2 and 5 days of the Color Maximum Marks : 50	1
P	rt A (Answer any 6 questions. Each carries 2 marks)	
1.	What is register? Why it is known as working memory of CPU?	2
2.	What is the difference between ASCII and EBCDIC codes?	2
3.	Convert the binary number 10101101 to Gray code and explain the steps involved	d. 2
4.	Write any 6 boolean laws.	2
5.	What are the different header files used in C language	2
6.	What is the difference between assignment and equality operators?	2
7.	Vrite the rules of making identifiers.	2
8.	Differentiate between 'break' and 'continue' statements.	2
	Part B (Answer any 4 questions. Each carries 6 marks)	
9.	OS is a resource manager. Justify the statement.	j
10.	explain the concept of 2's complement representation and its role in signed arithmetic	1- 6
11.	Fraw the logic circuit for the Boolean expression AB+ \overline{A} B using basic gates.	;
12.	explain precedence and associativity.	;
13.	befine an operator in C. What are increment and decrement operators? Prediction of the following code. Justify your answer.	t
	nt x = 4, y, z; =x; = x; rintf("%d\t%d\t%d" x y z);	

14.	Expl	lain the v		.6oV	
	Par	t C (An	swer any 1 question(s). Each carries 14 marks)	First S	
15.	(a)	Write a the digit	C program that accepts a positive integer and prints out the sum ts of this number. C program to find average marks obtained by a class of 50 students.	of DSCIL	
	(0)	in a test		7	
16.	(a)	Explain	the Types of computer network?	7	
	(b)	Explain	Von Neumann Model with a neat diagram?	ngm 00 = 0	
			newer any 6 questions. Each carries 2 marks)	A) A . 118	9
		2	egister? Why it is known as working memory of CPU?	What is r	1.
		2	he difference between ASCII and EBCDIC codes?	What is	.2.
		volved.	he binary number 10101101 to Gray code and explain the steps inv	Convert t	3.
		2,	6 boolean laws.	Write any	4.
		2	the different header files used in C language	What are	5.
		2	he difference between assignment and equality operators?	What is t	.0
		2	rules of making identifiers.	Write the	7.
		2	ate between 'break' and 'continue' statements.	Differenti	.8
			Answer any 4 questions. Each carries 6 marks)	Part B (
		9	source manager. Justify the statement.	OS is a re	.0
		-dins	be concept of 2's complement representation and its role in signed	Explain the metic	
		9 .80	logic circuit for the Boolean expression $AB+\overline{A}B$ using basic gate	Draw the	The second secon
		9	recedence and associativity.	Explain p	.01
		redict	operator in C. What are increment and decrement operators? Pre- t. of the following code. Justify your answer.		
			ł, y, z;	int x = x y = -x; z = x;	-
			(d\t%d\t%d", x, y, z);		