Sri Siddhartha Institute of Technology, Tumkur
(A constituent college of Sri Siddhartha Academy of Higher Education, Tumkur)
ES-CS205: PROGRAMMING FOR PROBLEM SOLVING
TEST II

Date: 08/06/2022

Time: 8.00 to 9.00 AM

Max. Marks: 30

Answer all the questions.

Q.No		M	C	B
1.	Write the syntax and flowchart of if else. Write a C program to check whether the given number if odd or even.	6	3	3
2.	Explain else if ladder with syntax and flowchart.	6	3	3
3.	Compare the entry controlled and exit controlled looping statements.	6	1	2
4.	Write a C program to check given number is palindrome or not.	6	3	3
5.	Explain 'for' loop with an example program.	6	2	2

Note: M: Marks, C: CO, B: Blooms Level   Common to Sections: A/B/C/D/E

Sri Siddhartha Institute of Technology, Tumakuru

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ES-CS205: PROGRAMMING FOR PROBLEM SOLVING

Date: 28/06/22   **TEST III**   Time: 1.45-2.45PM

Max. Marks: 20

Answer all the questions.

Q.No		M	C	B
1	Explain declaration and initialization of one-dimensional array with syntax and example.	5	4	2
2	Develop a C program to search for given key element using Linear search.	5	3	3
3	Explain any 5 string handling function with example.	5	4	2
4	Write a C program to read two strings and concatenate them without using string handling function	5	3	3

Note: M- Marks, CO- Course Outcomes and BL-Bloom's level

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ES-CS205: PROGRAMMING FOR PROBLEM SOLVING

Date: 11. 05.2022   TEST I   Time: 8AM -9 AM

Max. Marks: 30

Answer all the questions.

Q.No		M	C	B
1	What is an algorithm? Write an algorithm to find the perimeter of a rectangle.	6	1	3
2	Explain the Basic Structure of a C program.	6	1	1
3.	Explain the fundamental data types.	6	1	1

4.	Explain the following operators with examples:
	  i. Logical Operators
	  ii. Conditional Operators
	  iii. Increment/Decrement Operators
		6	1	1

5.	a. Find errors in the following statement :
	  i. Int x;
	  ii. double =p,q
	  iii. m,n,z Integer
	b. Identify valid and Invalid variable name give reason :
	i. first.name
	ii. sum total
	iii. n$
		6	1	4

Note: M:Marks, C:CO, B:Blooms Level   Common to Sections : A/B/C/D/E

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ES-CS105 : PROGRAMMING FOR PROBLEM SOLVING

Date: 24.01.2022   TEST1   Time: 09.30-10.30AM

Q.No		Marks	CO	BL
1.	What are C tokens? Explain any five C token with an example.	6	1	2
2.	Outline the basic structure of a C program and explain the same.	6	1	2
3.	Design an algorithm and flowchart to read two integers and swap them using temp variable.	6	1	3
4.	Explain the following operators with an example each. (i) Increment (ii) Conditional (iii) Bitwise &	6	1	2
5.	Evaluate the following expressions: (i) X1=(-b+sqrt(b*b)-4*a*c)/(2*a) when a=1, b=-5 and c=6 (ii) (a)Y=a*(b+c)/d (b) Z=p/q * r When a=6, b=2,c=3,d=5,p=8, q=4 and r=16.	6	1	3

$x1 = 6$

$$x_1 = \frac{5+\sqrt{25-24}}{2} = \frac{5+1}{2} = \frac{6}{2} = 3$$

Common for the Sections : F,G,H,I & J

$6*(2+3)/5$

$6*5/5$

$6*1 = 6$

$Z = 8/4 * 16$

$2*16$

$Z = 32$

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ES-CS105 : PROGRAMMING WITH PROBLEM SOLVING

Date: 16-02-2022   SEM-1, TEST2   Time: 09.30-10.30AM

Q.No		Marks	CO	BL
1.	Explain nesting of if...else statement with syntax and flowchart.	6	2	2
2.	Explain else...if ladder statement with syntax and example.	6	2	2
3.	Design C program to find the largest of given three numbers.	6	3	3
4.	Write a C program to perform arithmetic operations only on integers using switch statement.	6	3	2
5.	Develop a C program to find the GCD and LCM of two integer numbers using Euclid's method.	6	3	3

Common for the Sections : F,G,H,I & J

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ES-CS105: PROGRAMMING FOR PROBLEM SOLVING

Date: 08-03-2022   TEST III   Max. Marks: 20

Answer all the questions.

Q.No		M	CO	BL
1	Differentiate between break and continue statement.	5	4	2
2	Develop a C program to generate and display the first N Fibonacci numbers.	5	4	2
3	Explain declaration and initialization of two-dimensional array.	5	3	3
4	Write a C program to sort N numbers in ascending order using bubble sort and print both the given array and the sorted array with suitable headings.	5	3	3

Note: M- Marks, CO- Course Outcomes and BL-Bloom's level

Common for : F,G,H,I,J sections