O.P.Code: 16CS501   R16   H.T.No. ☐☐☐☐☐☐☐☐☐☐

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
I B.Tech I Semester Supplementary Examinations June-2024
COMPUTER PROGRAMMING
(Common to All)

Time: 3 Hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1	a	Draw a flowchart for displaying the sum of even numbers in the range of 1 to n. Accept 'n' from user.	CO1	L2	6M
	b	Write a C program to find the roots of a quadratic equation for all the cases.	CO1	L3	6M

OR

2	a	Write an algorithm to find whether the given number is prime or not.	CO1	L2	6M
	b	Explain about logical & bitwise operators in c language.	CO1	L2	6M

UNIT-II

3	a	Write a C program to find sum of the series $1+2^2+3^2+....+n^2$	CO1	L3	6M
	b	Write a C program to generate prime numbers between 1 and 'n'.	CO1	L2	6M

OR

4	a	Write a C program to perform arithmetic operations using switch.	CO3	L3	6M
	b	Explain the looping statements available in c with simple examples.	CO1	L2	6M

UNIT-III

5	a	Discuss about the initialization and accessing of array elements in one dimensional and two dimensional arrays.	CO3	L2	6M
	b	Write a C program to multiply two matrices of different order.	CO3	L3	6M

OR

6	a	Write a C program to implement strcmp() , strcat() , strcpy() and strlen().	CO2	L3	6M
	b	Write a C program to find whether a given string is palindrome or not.	CO3	L3	6M

UNIT-IV

7	a	Discuss about the different categories of functions.	CO3	L1	6M
	b	Write a C program to find the GCD of 2 numbers using recursion.	C03	L3	6M

OR

8	a	Write a C program to print address of avariable.	C03	L3	6M
	b	Write a C program to read and print an array of elements using pointers.	C03	L2	6M

UNIT-V

9	a	Write a C program to illustrate the concept of structure within structure.	C03	L1	6M
	b	Differences between structure and union.	C03	L1	6M

OR

10	a	Write a C program to display the contents of the file in reverse order.	C03	L2	6M
	b	Write a C program to copy the contents from one file to another file.	C03	L1	6M

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