

Q.P Code: CS1103ES

Hall Ticket No.:

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NARSIMHA REDDY ENGINEERING COLLEGE
(UGC AUTONOMOUS)

I B.Tech I Semester (NR21) Regular & Supplementary Examination, March 2023
PROGRAMMING FOR PROBLEM SOLVING
(Common to CE, EEE, ME, CSE)

Time : 3 hours

Maximum marks: 70

- Note:**
- This question paper contains two parts, A and B
 - Part A is compulsory which carries 20 marks (10 sub questions are two from each unit carry 2 Marks). Answer all questions in Part A
 - Part B Consists of 5 Units. Answer one question from each unit. Each question carries 10 Marks and may have a, b sub questions

Part-A (20 Marks)
Answer all questions

Q.No	Question	M	CO	BL
1)	a. Write difference between algorithm and flowchart	2	CO1	L2
	b. Define keyword, constant and variable.	2	CO1	L1
	c. Write the syntax for nested if and else-if ladder?	2	CO2	L2
	d. Distinguish between while and do-while statements.	2	CO2	L2
	e. Differentiate between break and continue	2	CO3	L2
	f. What is an array? Write the types of an array.	2	CO3	L1
	g. What is multi-dimensional array?	2	CO3	L2
	h. Define pointer. How can you declare it?	2	CO4	L2
	i. How can you read a string through keyboard?	2	CO4	L3
	j. Define Structure? How to Initialize a Structure?	2	CO5	L2

Part-B (50 Marks)
Answer all the Units
All Questions carry equal Marks

Q.No	Question	M	CO	BL
UNIT-I				
2)	a. Write the structure of C program and explain	5	CO1	L2
	b. Write a program to perform swapping of two numbers without using temporary variable	5	CO1	L2
OR				
3)	a. Write an algorithm and flowchart to generate Fibonacci series of numbers up to 'n'	5	CO1	L2
	b. Draw the flowchart to find the greatest of three numbers.	5	CO1	L3
UNIT-II				
4)	a. Write and explain about switch statement.	5	CO2	L2
	b. Write a Program to perform arithmetic operations using switch.	5	CO2	L2
OR				

5)	a. Write a program to find the factorial of a given number	5	CO2	L2
	b. Explain else-if ladder with the help of flowchart and program	5	CO2	L3
UNIT-III				
6)	a. Define an array. How to initialize one-dimensional array? Explain with suitable examples	5	CO3	L2
	b. Write a C program to sort the given array elements in Ascending order	5	CO3	L3
OR				
7)	a. How to declare and initialize a Two-dimensional array? Discuss with examples	5	CO3	L3
	b. Write a C program to print the sum of diagonal elements of 2-D matrix	5	CO3	L3
UNIT-IV				
8)	a. What are the features of pointers? Write a C program to print address of a variable	5	CO4	L2
	b. Explain the declaration of pointers and pointer to pointer with examples.	5	CO4	L3
OR				
9)	a. Explain the concept of functions returning pointers with example	5	CO4	L3
	b. Write a C program to read and print an array of elements using pointers	5	CO4	L3
UNIT-V				
10)	a. Define Structure and write the general syntax for declaring and accessing members	5	CO5	L3
	b. How to copy and compare structure variables? Illustrate with example	5	CO5	L3
OR				
11)	a. Write the syntax for opening a file with various modes and closing a file.	5	CO5	L2
	b. Explain the following file handling functions: a. fseek() b. ftell() c. rewind() d. feof()	5	CO5	L3

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