26-09-2-

Hall Ticket No.:

Question Paper Code: CS1203ES

NARSIMHA REDDY ENGINEERING COLLEGE

(UGC-AUTONOMOUS)

BTECH I YEAR II SEMESTER REGULAR EXAMINATIONS, SEPTEMBER-2022

(Regulation: NR21)

PROGRAMMING FOR PROBLEM SOLVING

Time: 3 hours

Max. Marks: 70

Answer any Five Questions All Questions carry Equal Marks

		Marks	Bloom's Level
1	a. What is an operating system? Explain types of operating system.	6	L1
1	b. Describe the structure of C program. Explain each with example.	8	L3
2	a. Write about logical, relational and unary operators.	7	L2
2	b. What are the conditional control statements C?	7	L1
	a. Write the differences between Array and Structure with example.	7	L2
3	b. Write a program multiplication of two matrices.	7	L3
4	a. Explain array of structures and structure within a structure with example.	7	L2
	b. What is a file? Explain how the file open and file close functions?	7	L1
	a. Explain the various file handling operations in C.	7	L2
.5	b. Write the syntax for reading a file and writing file.	7	L3
6	a. Explain the call by value and call by reference mechanism with example.	7	L2
0	b. Write a C program Fibonacci series using recursion function.	7	L3
	a. What is dynamic memory allocation? Write and explain the different dynamic memory allocation functions in C.	7	L1
/	b. What are the limitations of recursive function in C.	7	L3
	a Write an algorithm for quick sort program in C	7	L3
8	b Write an algorithm for quadratic equation program.	7	L3

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NARSIMHA REDDY ENGINEERING COLLEGE

(UGC-AUTONOMOUS)

B.TECH I YEAR II SEMESTER SUPPLEMENTARY EXAMINATIONS, SEPTEMBER-2022

(Regulation: NR20)

PROGRAMMING FOR PROBLEM SOLVING

Time: 3 hours

Max. Marks: 75

Question Paper Code:

Answer any Five Questions All Questions carry Equal Marks

	Thi Questions curry Equal Harris	Marks	Bloom's Level
	a. Write an algorithm to find the roots of a quadratic equation	7	L1
1.	b. Explain various decision making statements used in C with examples	8	L1
2	a. Write a program to find the string length by using string function	7	L1
2.	b. Define array. Explain about different types of arrays.	8	L2
	a. What is the difference between structure and union?	7	L4
3.	b. Explain different Input/Output operations on files.	8	L1
	a. Write a 'C' program for printing Factorial of a given number by using recursive function.	7	L6
4.	b. Briefly discuss about any four string handling functions.	8	L2
c	a. Write a program for insertion sort.	7	L1
5.	b. Briefly explain about read and write operations of a file.	8	L2
6.	Develop an algorithm for binary search and explain with an illustration.	15	L4
7	a. Explain with examples how arrays are passed as arguments in functions.	7	L1
	b. Explain about dynamic memory allocation functions.	8	L6
8.	Define function. Compare call by value and call by reference with an example.	15	L3

Hall Ticket No.:

Question Paper Code: CS1103ES



NARSIMHA REDDY ENGINEERING COLLEGE

(UGC-AUTONOMOUS)

B.TECH I YEAR I SEMESTER SUPPLEMENTARY EXAMINATIONS, SEPTEMBER-2022

(Regulation: NR21)

PROGRAMMING FOR PROBLEM SOLVING

Time: 3 hours

Max. Marks: 70

Answer any Five Questions All Questions carry Equal Marks

	Marks	Bloom's Level
a. What is a storage class? What are the storage class in C language.	7M	L2
b. Develop a program to find larges of 3 numbers using ternary operator.	7M	L3
a. Write a program for string length without library function.	7M	L3
b. What are the differences between structure and union?	7M	L2
a. Explain preprocessor commands.	7M	L2
b. Write a program to copy the contents of one file into another file.	7M	L3
a. Explain call by reference parameter passing.	7M	L2
b. Develop a program to find factorial of number using recursion.	7M	L3
a. Develop an algorithm for bubble sort.	7M	L4
b. Develop a program for binary search.	7M	L4
a. Write a program to find the roots of a quadratic equation.	7M	L3
b. Explain How to pass arrays to functions with an example.	7M	L2
a. Explain fseek() and ftell() functions with an example.	7M	L2
b. Evaluate 5+3*4-6/2	7M	L5
a. What is a command line argument? How to pass arguments? Explain with an example.	7M	L2
b. Explain switch statement with an example.	7M	L2
	 a. What is a storage class? What are the storage class in C language. b. Develop a program to find larges of 3 numbers using ternary operator. a. Write a program for string length without library function. b. What are the differences between structure and union? a. Explain preprocessor commands. b. Write a program to copy the contents of one file into another file. a. Explain call by reference parameter passing. b. Develop a program to find factorial of number using recursion. a. Develop an algorithm for bubble sort. b. Develop a program to find the roots of a quadratic equation. b. Explain fseek() and ftell() functions with an example. b. Evaluate 5+3*4-6/2 a. What is a command line argument? How to pass arguments? Explain with an example. b. Explain switch statement with an example. 	Marksa. What is a storage class? What are the storage class in C language.7Mb. Develop a program to find larges of 3 numbers using ternary operator.7Ma. Write a program for string length without library function.7Mb. What are the differences between structure and union?7Ma. Explain preprocessor commands.7Mb. Write a program to copy the contents of one file into another file.7Ma. Explain call by reference parameter passing.7Mb. Develop a program to find factorial of number using recursion.7Ma. Develop an algorithm for bubble sort.7Mb. Develop a program to find the roots of a quadratic equation.7Mb. Explain How to pass arrays to functions with an example.7Ma. Explain fseek() and ftell() functions with an example.7Mb. Evaluate 5+3*4-6/27Ma. What is a command line argument? How to pass arguments? Explain with an example.7Mb. Explain switch statement with an example.7Mb. Explain switch statement with an example.7M

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Question Paper Code:

NARSIMHA REDDY ENGINEERING COLLEGE

(UGC-AUTONOMOUS)

B.TECH I YEAR I SEMESTER SUPPLEMENTARY EXAMINATIONS, SEPTEMBER-2022

(Regulation: NR20)

PROGRAMMING FOR PROBLEM SOLVING (Common to CIVIL, ME, ECE, CSE (AI&ML))

Time: 3 hours

IRC

Max. Marks: 75

Answer any Five Questions All Questions carry Equal Marks

		Marks	Level
1.	Define operator. Explain various types of operators in C.	15	L2
	a. Explain if and if-else statement with example program.	7	L1
2.	b. Illustrate the uses of storage classes in 'C'	8	L2
	a. Compare and contrast structure and union.	7	L4
3.	b. Interpret the purpose of self-referential structures with an example.	8	L5
	a. Write a 'C' program to find the minimum value from the given 'n'	7	L6
4.	b. Briefly discuss about any four string handling functions.	8	L2
	a. What are pre-processor directives and explain include and define preprocessor commands.	7	L1
5.	b. Briefly explain about read and write operations of a file.	8	L2
6.	Define function. Compare call by value and call by reference with an example.	15	L4
	a. Explain with examples how arrays are passed as arguments in functions.	7	L1
7.	 b. Define recursion and write a 'C' program to print the Fibonacci series using recursion. 	8	L6
8.	Develop an algorithm for bubble sort and explain with an illustration.	15	L3

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	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year II Semester (Special) Examinations, January - 2021 PROGRAMMING FOR PROBLEM SOLVING (Common to FEE_CSE_IT)	
Time	e: 24rs Max.Ma	arks:75
	Answer any five questions All questions carry equal marks	
1.	Explain about various Arithmetic operators available in C language with example	s. [15]
2.	What is an array? Explain the an eimensional array with suitable example progra	am. [15]
3.a) b)	Explain about fseek() and ftell(). Write the differences between structure and mion with examples.	[8+7]
4.a) b)	Explain the call-by-value and call-by-reference parameter passing methods. Write about the following functions: i) malloc() ii) calloc	
5.	Write and explain the algorithm for finding minimum and paximum numbers of set	[7+8] a giver
6.	Explain switch statement. Explain its usage with a sample C program	[15]
7.	Explain the enumerated data type with an example program.	[15]
8.	Describe about the various preprocessor commands used in C.	
	your roots to success	~

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Code No: 152AF JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech I Year II Semester Examinations, July/August - 2021PROGRAMMING FOR PROBLEM SOLVING (Common to EEE, CSE, IT, ITE)

Ti	me: 3 Hours Max. Marks: 7	'5
	Answer any five questions	
	All questions carry equal	
	marks	
1.a) b)	Differentiate between typecasting and type conversion. Write a program to count the number of vowels in a text.	[7+8]
2.a)	Write a program to read two numbers. Then find out whether the multiple of the second number.	first is a
b)	Explain the use of Command line argument with an example.	[8+7]
3.a) b)	Describe about the enumerated data type with an example. Explain about the use of pointers in self referential structures.	[7+8]
4.a) b)	Write a program to transpose of a 3×3 matrix. Differentiate between structure and an array.	[8+7]
5.a) b)	Explain the importance of #define preprocessor directive. Write a program to read a file that contains lowercase characters. Then w these characters into another file with lower case characters converted into upper case.[7+8]	vrite r
6.a)	Write a program to merge two files into a third file. The names of the fill mustbe entered using command line arguments.	les
b)	Distinguish between #ifdef and #ifndef.	[8+7]
7.a) b)	Write a recursive program to find out the factorial of given number. Explain about the dynamic memory allocation.	[8+7]
8.a)	Write an algorithm to find out the minimum and maximum numbers of a givenset.	l
b)	Explain about the Bubble sort with an example.	[7+8]

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R18

Code	 ISAF NWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tem I Year II Semester Examinations, September/Octobe PROGRAMMING FOR PROBLEM SOLVING 	R18 er - 2021
Time: 3 75	Hours M Answer any five questions All questions carry equal marks	ax. Marks:
1.	Explain about various logical operators available in C language with examp	ples. [15]
2.a) b)	What are the steps involved in program development process? Explain. Write program to check whether the given integer a paindrome or not.	[8+7]
Exp b)	plain the following string handling functions with examples: i) strcpy() ii) strcat() Write the differences between structure and union with examples.	[8+7]
Exp	plain the following functions in file operations: i) getw() ii) putw()	•
b)	Write a C program to copy the content of one file into another file.) [8+7]
5.	What are the different ways of passing parameters to the function? Expla	
6.	Write a C program to perform the operation of addition of two matrices.	[15]
7.	Explain in detail about preprocessor commands.	7
8.	Write an algorithm for linear search and explain with an illustration.	[15]

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- b) Define pointer. Write the advantages and disadvantages of using pointers. [7+8]
- 8. Write a C program to merge the contents given two existing files into new file. [15]

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