Code No: 152AF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year II Semester Examinations, June - 2022 PROGRAMMING FOR PROBLEM SOLVING

(Common to EEE, CSE, IT, CSIT, ITE, CE(SE), CSE(CS), CSE(DS), CSE(Networks)) Time: 3 Hours Max. Marks: 75

Answer any five questions All questions carry equal marks

1.a)	Explain briefly about the components of a computer.	
b)	Write an algorithm to find the factorial of a given number.	[8+7]
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2.	Define operator? List and explain various operators used in C programming language.	
		[15]
3.a)	Develop a C Program to perform matrix multiplication.	
b)	What is the syntax for Structure? Explain with an example.	[7+8]
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4.a)	Explain in detail about various types of string handling functions with an example	
b)	Describe briefly about Enumerated Data Types.	[8+7]
5.a)	Explain briefly about Commonly used Preprocessor commands include and defin	e.
b)	Develop a C program to write contents in to file using file I/O.	[8+7]
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6.a)	Illustrate recursive function with a suitable example.	
b)	Differentiate call by value and call by reference.	[7+8]
7 0)	Explain in detail about user defined functions with an example program.	
7.a) b)	Develop a C program to print the Fibonacci series using recursion.	[8+7]
0)	Develop a C program to print the Frontacer series using recursion.	[0 7]
8.a)	Write an algorithm to find the roots of a quadratic equations.	
b)	Develop a C program to search an element using Binary search technique.	[7+8]
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