## Code No: 152AF

Time: 3 hours

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech I Year II Semester Examinations, August - 2019 PROGRAMMING FOR PROBLEM SOLVING

(Common to EEE, CSE, IT)

	The state of the s	Max. Marks: 75	
,	Part A is compulsory which carries 25 marks. Answer all question Part B consists of 5 Units. Answer any one full question from each unit. carries 10 marks and may have a, b, c as sub questions.	all questions in Part A. om each unit. Each question	
	marks and may have a, o, c as sub questions.		
	PART - A		
1	1.a) Find and remove the error in the following C Statement. a >b? g = a : g = b:	(25 Marks)	
c	without Specifying length?	14.5	
	c) write about itell function.	[2]	
	d) List the limitations of recursive functions.	[2] [2]	
	e) How do you find the time complexity of a bubble sort?	[2]	
	1) Give a note on iteration statements in Clanguage	[3]	
******	g) What is enumerated data type and write syntax and example.	[3]	
	11) Trow to handle errors with file functions? Explain	[3]	
		[3]	
	j) What is sorting and what is the importance of sorting?	[3]	
	PART – B		
	2.a) Define variable. List the rules for declaring variable. Give valid and invalid e	(50 Marks)	
	b) Write an algorithm to find HCE of two positive integer numbers.		
2004 <b>a</b> 0	the second of th	[5+5]	
	3.a) - Explain the terms stdin, stdout and stderr	y" tom	
	b) List and explain the different types of storage class.	[5+5]	
	4. Discuss any five string handling functions in detail.	[10]	
	ΩP		
	5.a) Explain multidimensional arrays and give an example program to pass array as argume in functions.		
	b) How to pass the structures to functions as an argument? Explain.	[5+5]	
	6.a) Write a program in C that copies the contents of one file to another file.		
	b) How to use fseek() for randomly access the file content? Explain		
	OB	[5+5]	
THE STATE OF THE S	7. Briefly explain the pre-processor directives in detail.	[10]	
8	and the same of th	[10]	
	8. List and explain the some C standard functions and libraries.  OR	[10]	
	9. Explain with examples how arrays are passed as arguments in functions.		
		[10]	
	10.a) Explain the algorithm for finding roots of a quadratic equation.		
	b) Write a program to sort array of integers using selection sort.	[5.15]	
1 9 9	OP	[5+5]	
	11. Define algorithm and write algorithm to generate prime number series between m and n,		
	and megers.	H0]	
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