R16

Code No: 131AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year I Semester Examinations, December - 2016

COMPUTER PROGRAMMING IN C

(Common to CE, ME, MCT, MMT, MIE, CEE, MSNT)

	Time: 3 hours	ax. Marks: 75	
	Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions Part B consists of 5 Units. Answer any one full question from each question carries 10 marks and may have a, b, c as sub questions.	in Part A. unit. Each	
·	FR SE PART-ASE	(25 Marks)	\$ \$ }
	1.a) Define the term algorithm and how it is different from a flow chart.b) Distinguish between if and switch statements.	[2] [3]	
	 c) Explain auto and register storage classes. d) What is meant by type qualifier? e) What is meant by array of pointers? When it will be useful? f) Distinguish between string and character. g) Explain how to define a union. 	[2] [2] [3] [2]	
	h) Explain the concept of enumerated type. i) What is meant by a text file? j) Discuss about rewind function?	[3] [2] [3]	
	PART-B		
		(50 Marks)	
\$	2. Write a C program to find factorial of a given number N by using 'whi 'do-while' loop. OR	le loop and [10]	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	3. What are the C operators? Explain their usage with suitable examples to each	h of them. [10]	
« •	 4.a) Distinguish between iteration and recursion. b) What is meant by user defined functions? Explain with an example C Program OR 	m. [5+5]	;
	 5.a) Explain the binary search method. b) Perform bubble sort of the following numbers: 20, 5, 30, 10, 65, 3, 90 	[5+5]	
9	6.a) What are the advantages and drawbacks of pointers? b) With a sample C program and explain about passing an array to a function.	[5+5]	
	OR 7. What are the string manipulation functions? Explain their usage.	[10]	

	9.a) Disc	lain about self ref	ice of preprocess	OR	C program.	[10] [5+5]	T.
P.	to an	t is meant by state to the text file. t is meant by bing	176 CX74 2 0 0 1 4 0 0 1 4 0 0 0 0 4 0 0 4 0 0 0	OR	o copy the contents	s of one text file [10] [10]	37
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