Code No: 132AD

R16

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD B.Tech I Year II Semester Examinations, August - 2018

Time	COMPUTER PROGRAMMING IN C (Common to EEE, ECE, CSE, EIE, IT, ETM) Max. Mar	ks: 75
Note:	This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all questions in P  Part B consists of 5 Units. Answer any one full question from each unit.  question carries 10 marks and may have a, b, c as sub questions.  PART- A	art A. Each  25 Marks)
	Give octal number for 10001011 <sub>2</sub> .  Explain different primary data types used in C language.  Define binary search. How it different from linear search?  Write a function that checks whether a given year is leap year or not List any four string manipulation functions?  Comment on the size of pointer to different datatypes (int *, char *, float *).  What do you mean by command line arguments?  Differentiate between structure and union.  Discuss about ftell() function.  What is meant by flushing of a file?  PART-B	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3]
	(5	0 Marks)
3.a) b) 4.	Write a C program that reverses a number that is entered by the user by making do-while loop. How is this looping technique different from while loop?  OR  What is an Identifier? List the rules required to form variable names in C.  Write a program showing the use of if else and switch statements in C?  Write a program to check whether an array is ordered. If ordered print a suitable as "Ascending" or "Descending". Otherwise "not ordered".  OR  What do you mean by recursion? What conditions should be mandatory for recursive function? Explain using a suitable C program.	[10] [5+5] e message [10]
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6.	<ul><li>a) What is</li><li>b) What is</li><li>c) What is</li><li>d) What is</li></ul>	static int x[ the meaning of x the meaning of (x the value of *x the value of (*x the value of *(x)	$[8] = \{10, 20, 30, 40, 40, 40, 40, 40, 40, 40, 40, 40, 4$	40, 50, 60, 70, 80	}:	[10]
7. \$\bigs\tag{8}.	What is bit using bit fie	fields? Write a	program to prin	acing each string  t the binary equi	valent for a giv	en number
	structures.	ions can be perfo	interes income			[10]
O II.		gram to find the n	OR		ord in a given f	[10] ile.[10]
			ooOoo			
8R	8R	1 1 8 R	88	8,2	8R	8R
82	8.	87	- - - - - -	20		
8R	8R	8R	8.	82	8R	8R
82	8R	8R ,	8R	8R -	8 R	·8R