456

Q.P. Code: 530201

(3 Hours)

[Total Marks: 80

		•
N.B.	 2. Attempt any three questions from remaining five questions. 3. Figures to right indicate full marks. 4. Assume suitable data if necessary, but justify the same 	2169
	7. Assume surtuste data it necessary, but justify the same	
1. (a)	11/	4
(b)		4
(c)	7	4
(d)	(2)	4
(e)		4
(-)		. "
2 (a)	Write a program in C to accept an ARRAY A with n elements and Separate	10
2 (u)	it into two different arrays B and C in such a way that B contains Odd	10
	numbers and C contains Even numbers i.e. if ARRAY A contains	10
	$A = \{3,2,4,2,5,7,8\}$ then $B = \{3,5,7\}$, and $C = \{2,4,2,8\}$	10
2 (h	Write a program to generate Pascal triangle upto n rows.	
	O ₂	
3 (2)	What do you mean by Recursion? write a program to reverse a number	10
3. (a)	using recursion.	10
2 (b)	Write a program to calculate compound interest and amount	
3. (b)		10
	Using formulae $A = P(1 + R/100)^n$ where $P = Principal Amt$, R is Rate of	
	interest, n = number of Years. Your program should make use of user	
	defined function to calculate power. Program should accept P, R and n	
	Display interest carned for each year.	
4 (-)	Facility of the Control of the Contr	10
4. (a)	Explain structures in C? What do you mean by nested structure? A company	10
	needs to maintain data about their employees. Details to be maintained are	
	Employee name, Department, Date of joining, Salary. Write a program	
	which will store these details and list the employees whose salary is greater	
	tran Ks. 50000.00	
1	which will store these details and list the employees whose salary is greater than Rs. 50000.00	
4		

Q.P. Code:

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4. (b)	Write a program to perform matrix multiplication using user defined functions Assume first matrix is of size M x N, second matrix of size N x P and third matrix (Result matrix) is of size M x P Program should include following user defined functions i. read_matrix ii. Display_matrix iii. Multiply_matrix Write a program to generate following patterns. A CB FED JIHG ONMLK i. 1 21 123 4321 12345 Write a program to calculate summation of series.	10
	i. read_matrix ii. Display_matrix iii. Multiply_matrix	010
5. (a) V	Write a program to generate following patterns.	10
i	. A	
	CB Z	
	FED	
	JIHG	
	ONMLK	
	C,	
i	i. 1	
	21	
	123	
	4321	
	12345	
	12343	
5. (b)	Write a program to calculate summation of series.	10
3. (0)	1 - $x^2/2! + x^4/4! - x^6/6! + x^8/8!$ upto in terms	10
	1 - X/2: + X/4: - X/0: + X/0:uptoin torms	
	. RD3	
6. (a)	Write user defined functions to implement following string operations i. strcat ii. strlen	10
6. (b)	What do you mean by FILE? Write a program to copy text from one file to	10
	other after converting Lower case letters to Upper case and vice versa. Keep	
	other characters as it is	
	1 P	
	SET TO SE	
	other characters as it(is)	
	ST	

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