	(Duration: 3 hours)	Total Marks: 80
N.B. (1) Question no. 1	is compulsory.	X
(2) Attempt any tl	hree questions from remaining five questions	2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
(3) Assume suital	ble data wherever necessary.	9, 2, 4, 4, 4, 4, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
(4) Figures in righ	ht indicate full marks.	
1. (a) Write a Program t	to find sum of the digits of a given number.	
(b) Explain any two library functions in math.h with example.		
(c) Explain type-cast	ing with suitable example.	4
(d) Explain ternary of	perator with example.	4
(e) Explain nested Structure with example.		
	? Write a Program to find factorial of given notes to find sum of even elements present in an arr	
3. (a) Write a program t	to calculate multiplication of two M x N matr	ices. 10
(b) Write a program to generate following patterns.		10
i> 1	ii> A B C D	
23	ABC	
456	AB	
7 8 9 10	A	
4. (a) Compare the follo	owing:	10
i) Entry controlle	d loop and Exit controlled loop.	
ii) break and conti	inue statements.	
(b) What do you mea	n by an algorithm and flowchart? Explain wi	th example. 10

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5. (a) Write a program using function to check whether entered string is palindrome or not.	5
(b) Compare call by value and call by reference with suitable examples.	5
(c) Define a structure named hotel to display Name, Address, Room charge and No. of rooms.	5) < 5) <
Write a Program that reads information about 'n' hotels and display the hotels with	25
room charges less than 5000Rs.	10
6. (a) What is a file? Explain different modes with syntax in which file can be opened.	
Explain various functions to read and write to a file.	
(b) Write a Program to display all Armstrong numbers between 100 and 999.	
(c) Explain static and External storage classes with example.	5
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\$ # # \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
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