22232 3 Hours / 70 Marks

Seat No.

Instructions:

- (1) All Questions are *compulsory*.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.

			Marks
1.	Attempt any FIVE of the following:		
	(a)	Draw the structure of a 'C' program.	2
	(b)	Define identifiers with example.	2
	(c)	State any four decision making statement.	2
	(d)	Explain the effect of following statement int a, * $b = & a$;	2
	(e)	Explain '&' operator used in pointers.	2
	(f)	Declare a structure student with element roll_No and name.	2
	(g)	How to declare structure within structure?	2
2.	Atte	empt any THREE of the following:	12
	(a)	State various data type along with their memory sizes.	4
	(b)	Write a 'C' program to convert accepted string in upper and lower case.	4
	(c)	Differentiate between call by value and call by reference. (any 4 points)	4
	(d)	Explain concept of pointer to a pointer.	4



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(a)	Explain the terms Assembler, Linker, Compiler and Interpreter.	4	
(b)	Explain switch statement with flow chart.	4	
(c)	List the categories of functions and explain any one with suitable example.	4	
(d)	With suitable example list different pointer arithmetic operations.	4	
Attempt any THREE of the following:			
(a)	Explain Hexadecimal and octal data type with example.	4	
(b)	How the size of an array is declared? Explain with suitable example.	4	
(c)	Explain use of pointer in array.	4	
(d)	Explain type def keyword in 'C' with example.	4	
Attempt any TWO of the following:			
(a)	Write a program to find largest of three numbers using nested if else.	6	
(b)	Explain initialization and declaration of 1-D and 2D array syntax with		
	example.	6	
(c)	Define scope of variable with suitable 'C' program.	6	
Attempt any TWO of the following :			
(a)	Write a program to find whether the entered number is prime or not.	6	
(b)	Write a program to add two matrices of size 3×3 .	6	
	(d) Atte (a) (b) (c) (d) Atte (a) (b)	 (d) With suitable example list different pointer arithmetic operations. Attempt any THREE of the following: (a) Explain Hexadecimal and octal data type with example. (b) How the size of an array is declared? Explain with suitable example. (c) Explain use of pointer in array. (d) Explain type def keyword in 'C' with example. Attempt any TWO of the following: (a) Write a program to find largest of three numbers using nested if else. (b) Explain initialization and declaration of 1-D and 2D array syntax with example. (c) Define scope of variable with suitable 'C' program. Attempt any TWO of the following:	
