■- [30	Paper ID and Roll I	No. to be	fille	d in yo	our Ansv	ver Book
·	Ξ.	Roll No.	90	8	0 1	01	001
	ER ID	B. Tech.					
		(SEM. I) (ODD SEM.) EXAMINATION, 2009-10					
	ΑP	FUNDAMENTAL					
≣ • L		[]				[Total	Marka - 10
ime :	31	Hours]				Liotal	Marks : 100
Note	:	Answer all questi	ons.				
		- 1					
1 /	Atte	mpt any two of th	e follow	ving	:		10×2=20
((a)	Explain the foll	owing	: -			
		- Mini syste	ms				
		- Micro sys	terfis.				
((b)	Differentiate bet	ween V	Vind	lows :	and Un	ix.
((c)	Convert the follo	owing h	exac	decima	al numb	ers to
		decimal:					
		(a) IC	((b)	A85	16	
		(c) E5 ₁₆	((d)	B2F	816	
	Attempt any two of the following / 10×2=2						
((a)	Give the features of MS-VC editor					
. ((b)	Differentiate between structured programming and functional programming.					
((c)	What do you u				gramm	ability
FF 12	0.51		1				[Contd

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- Attempt any two of the following:
- $10 \times 2 = 20$
- Write macro definitions with arguments for calculation of area and perimeter of a triangle, a square and a circle store these macro definitions in a file called "areaperi." Include this file in your program and call the macro definitions for calculating area and perimeter for different squares triangles and circles.
- Write a function that will calculate and display the real roots of the quadratic equation. The calculated roots should be real.
- Write a C program that will allow the computer to be used as an ordinary desk calculator. Consider only the common arithmetic operations (addition, subtraction, multiplication and division). Include a memory that can store one number.

Attempt any two of the following:

- (a) Write a program to obtain transpose of a 4×4 matrix. The transpose of a matrix is obtained by exchanging the elements of each row with the elements of the corresponding column.
- Write a program to pick up the largest number from any 5 row by 5 column matrix. Also calculate sum of all blocks.
- Write a C program'to show how an array of structures is passed to a function, and how a pointer to a particular structure is returned.
- Attempt any two of the following:
 - There are 200 records present in a file with information like itemcode, itemname in the structure. Write a program to read these records, arrange them in ascending order and write them in the target file.

Write a complete C program, using pointer notations, that will generate a table containing the following three columns

t aebt sinct aebt cosct Structure the program in the following manner. Write two special functions, f_1 and f_2 where f_1 evaluates the quantity $ae^{bt}\sin ct$ and f_2 evaluates aebt cosct.

- Write an appropriate declarations for each of the following situations involving pointer
 - Declare a function that accepts an argument which is a pointer to an integer array and returns a pointer to a character.
 - Declare a 12-element array of pointers to a functions. Each function will accept two pointers to double - precision quantities as arguments and will return a pointer to a double precision quantity.

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