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	B. C. A. (Sem. II) Examination
	October / November - 2003
	Programming Language: Paper - I
	Time: 3 Hours] [Total Marks: 70
1",s); 1",a);	Instructions: (1) There are 5 (five) questions. Q. I is
	compulsory. (2) Figures on the right indicate marks for the questions.
	(3) Answer each new question (Q.1, Q. 2/) on page.
	(4) Do not inter-mix the options. (5) Mention your options clearly.
[5]	
(8)	Q1. Answer in brief
tires:	(1) What is the significance of main() function? (2) Explain how strings are represented in C.
	(3) The function can have more than one return statement and using them we can return
	more than one value from function. Validate this statement. (4) How can comment be included within a C program?
(11)	(5) What are static variables? (6) Explain the meaning of function prototype: float funct (float, int).
	(7) How many values can function return? (8) If an array is declared as char s[10][100]; what is referred to by s[5]?
	(9) What is keyword? Give any 3 keywords. (10) Give the difference between = and = =.
* ¹ 0.191.4	
member	Q-2. A. Explain function prototype in detail with example. [4]
0	A. Describe storage classes in C.
	B. What is an operator? Describe several types of operators and their precedence levels in [5]
[8]	C. Write the C language code for matrix multiplication of two 3*3 matrix.
ters [7]	OR C. Write a program to find maximum element from the two-dimensional array.
	Q-3. A Explain multidimensional array in C Write different ways to initialize two-
	dimensional array within its declaration? OR
No.	
[1400]	To Append the second of the se
	P-0610] 1 [Contd
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A Rewrite the following code, removing errors if any, and then show the output:

```
I. #include<stdio.h>
   void main()
        int i = 1:
        switch(i)
           default : printf("Hello!");
           case 1 : printf(" how");
            case 2 : printf(" are");
            case 3 : printf(" you?");
     }
```

```
ii. #include<stdio.h>
   void increment()
       static int s=0;
       auto int a=0;
        a++;
        s++;
       -printf("s=%d\n".s);
        print('\a=%d\n",2);
    void main()
      incremen(();
      increment();
      incremento;
```

B Explain Call by value and Call by reference with examples

[5]

[6]

C. Write a program to interchange the value of two variables using function.

C Write an interactive program that takes the value of Basic pay of employee and according to following conventions. Calculate the gross salary of an employee.

If basic < 5000 hra=20% of basic, da=2% of basic, deduction=100 If basic=>5000 hra=30% of basic, da=5% of basic, deduction=300 If basic 10000 hra=40% of basic, da=10% of basic, deduction=400

Gross salary = basic + hra +da - deduction. Print basic, hra, da, deduction and gross salary for an employee in the proper format.

[4] A What do you understand by a pointer to the structure? Explain how can one access member variables of structure using pointer to the structure with example.

By Given the following information, what will be the result of the statements? [5]

/	Variable Name:	Address	Contents
\rangle	р	2568	222
		4284	2568
	Q R	6666	4284
		8120	232
	A[0]	8355	2658
	A[10] - X	2658	9035
=			

```
**R =
```

Contd..

^{*(&}amp;Q) =

[&]amp;(*R) = 3.

^{*(&}amp;A[10])=

⁽Q == *P) Is it True/False?

