

KATHMANDU UNIVERSITY
End-Semester Examination [C]
December, 2018

Marks scored:

Level : B.Sc./B.Pharm./B.Tech.
Year : I

Course : COMP 102
Semester: II

Exam. Roll No. :

Time: 30 mins.

F.M. : 10

Registration No.:

Date DEC 31 2018

SECTION "A"

[20 Q.×0.5=10 marks]

Choose and circle the most appropriate answer:

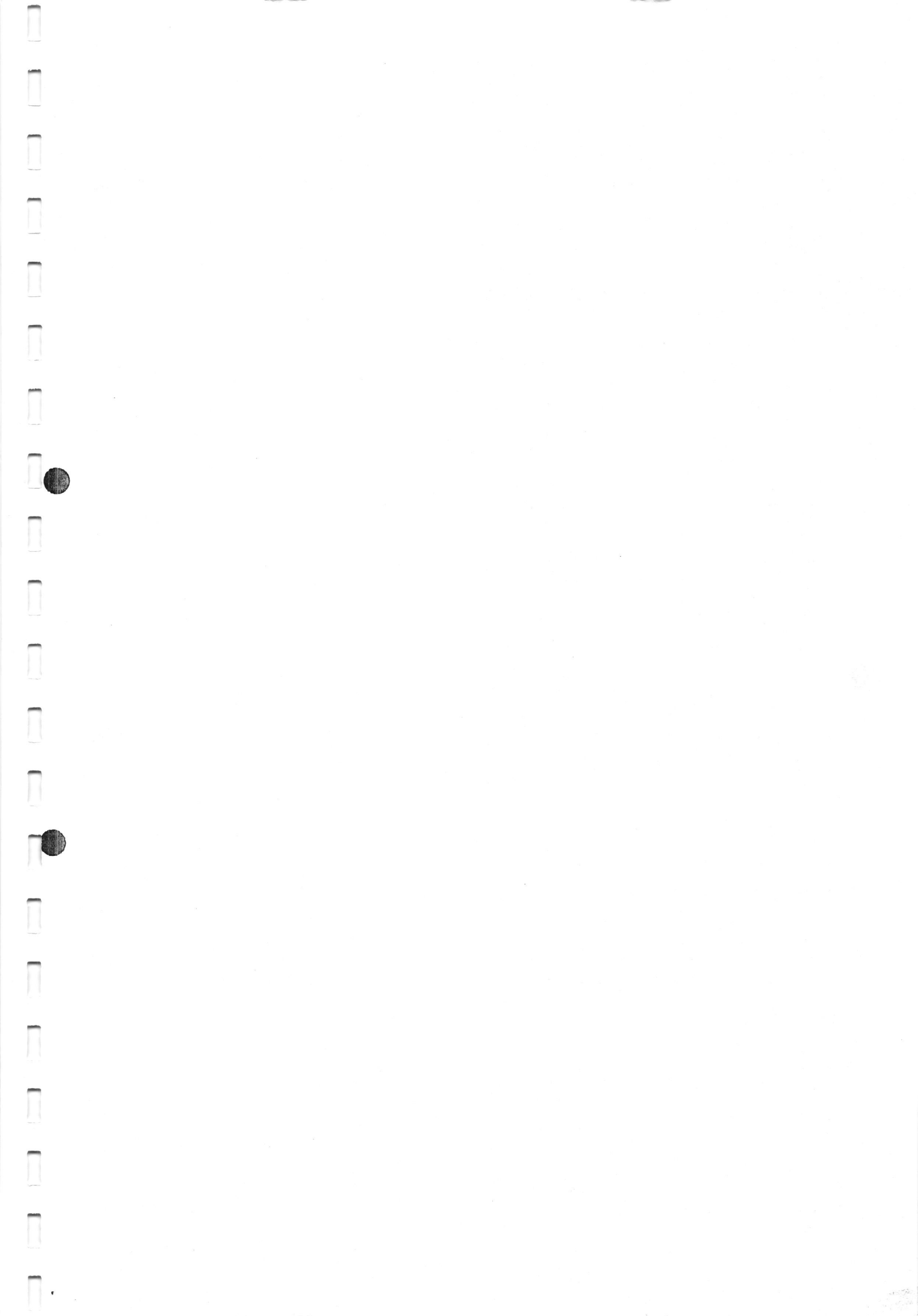
- Which of the following is not a valid variable name in C?
a. int num; b. float var; c. int var_count; d. int \$var;
- What will be the output of the following C code?

```
#include<stdio.h>
int main()
{
    int val=10;
    int VAL=12;
    printf("%d", val);
    return 0;
}
```


a. 10 b. 12 c. 22 d. Compile Error
- Which of the following is not a logical operator?
a. + b. && c. ! d. ||
- For which of the following, "PI++;" code will fail?
a. #define PI 3.14 b. char *PI = "A"; c. float PI = 3.14; d. None
- The use of break statement is
a. go to the next iteration in a loop b. exit and return to the main function
c. terminate the loop d. restart iterations
- Which of following is not accepted in C?
a. static a = 10; b. static int func (int);
c. static static int a; d. All of the above
- What will be the output of the following code?

```
#include<stdio.h>
int main()
{
    printf("%d", 1);
    goto l1;
    printf("%d", 2);
l1: goto l2;
    printf("%d", 3);
l2: printf("%d", 4);
return 0;
}
```


a. 1 4 b. 1 2 4 c. 1 3 4 d. 1 3



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Year : I
Time : 2 hrs. 30 mins

Course : COMP 102
Semester: II
F.M. : 40

SECTION "B"

[6 Q.×4=24 marks]

Attempt *ANY SIX* questions.

1. Mention logical operators. Illustrate 'OR' operator with suitable example. [1+3]
2. What do you understand by nested loop? Describe with example. [1+3]
3. Write a C- program to check either the input number is perfect number or not. [4]
4. Write a C- program to print the factorial of any input number using recursion. [4]
5. What is the use of array? Write a program to add n integer numbers of input array elements. [1+3]
6. Define function prototype. Explain it with suitable example. [1+3]
7. Write a program that illustrates the mechanism for passing pointer to a function. [4]

SECTION "C"

[2 Q.×8=16 marks]

Attempt *ANY TWO* questions.

8. Explain loop control statements with suitable examples.
9. Write a C- program to add two input square matrices using function.
10. How Structure differs from Union? Write a program that illustrates the array of structure for storing and displaying multiple records.

