

KATHMANDU UNIVERSITY  
End-Semester Examination  
August, 2018

Marks scored:

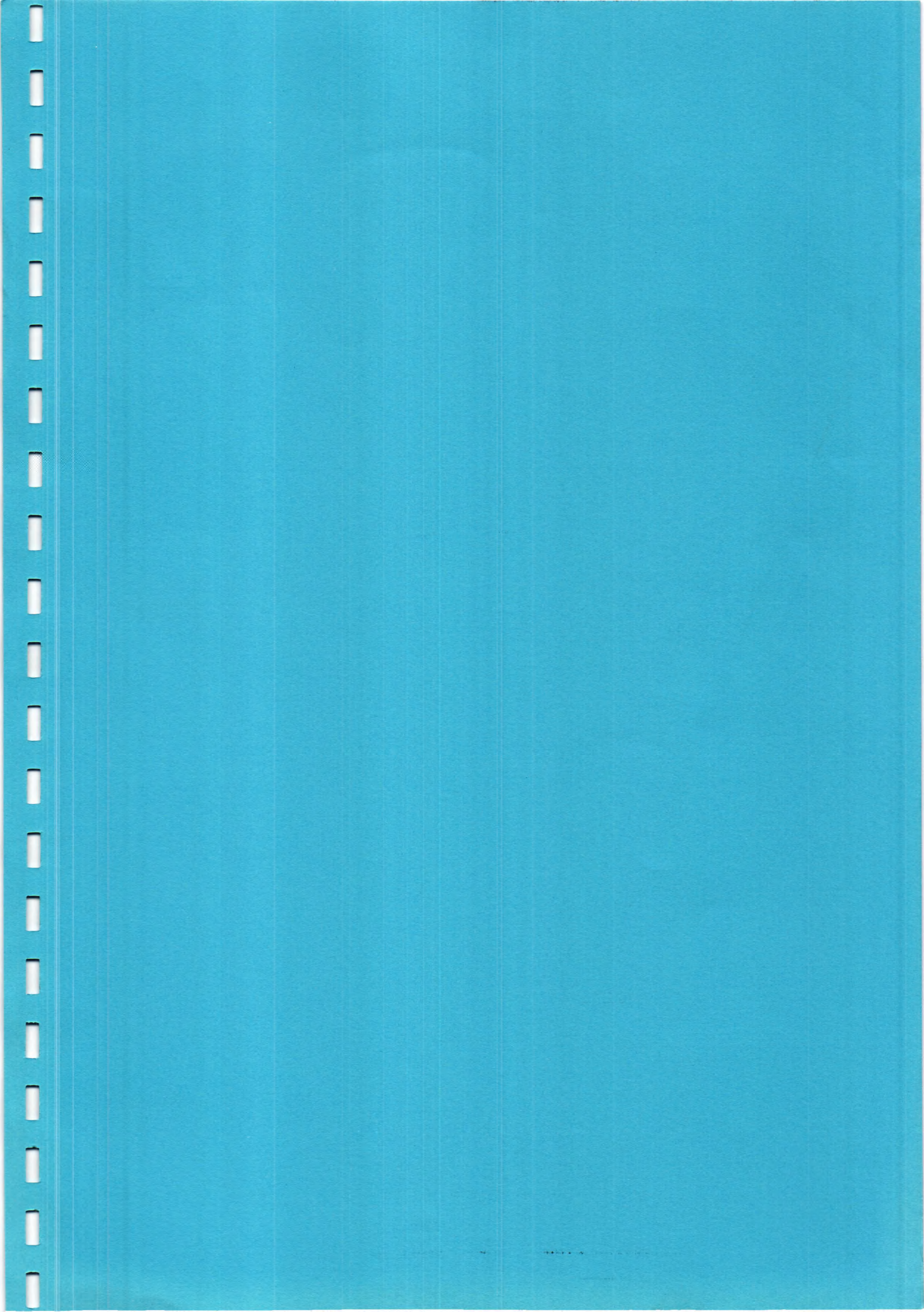
Level : B.Sc./B.Pharm./B.Tech.

Year : I

Course : COMP 102

Semester: II

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End-Semester Examination  
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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 : **AUG 23 2018**

SECTION "A"  
[20 Q.×0.5=10 marks]

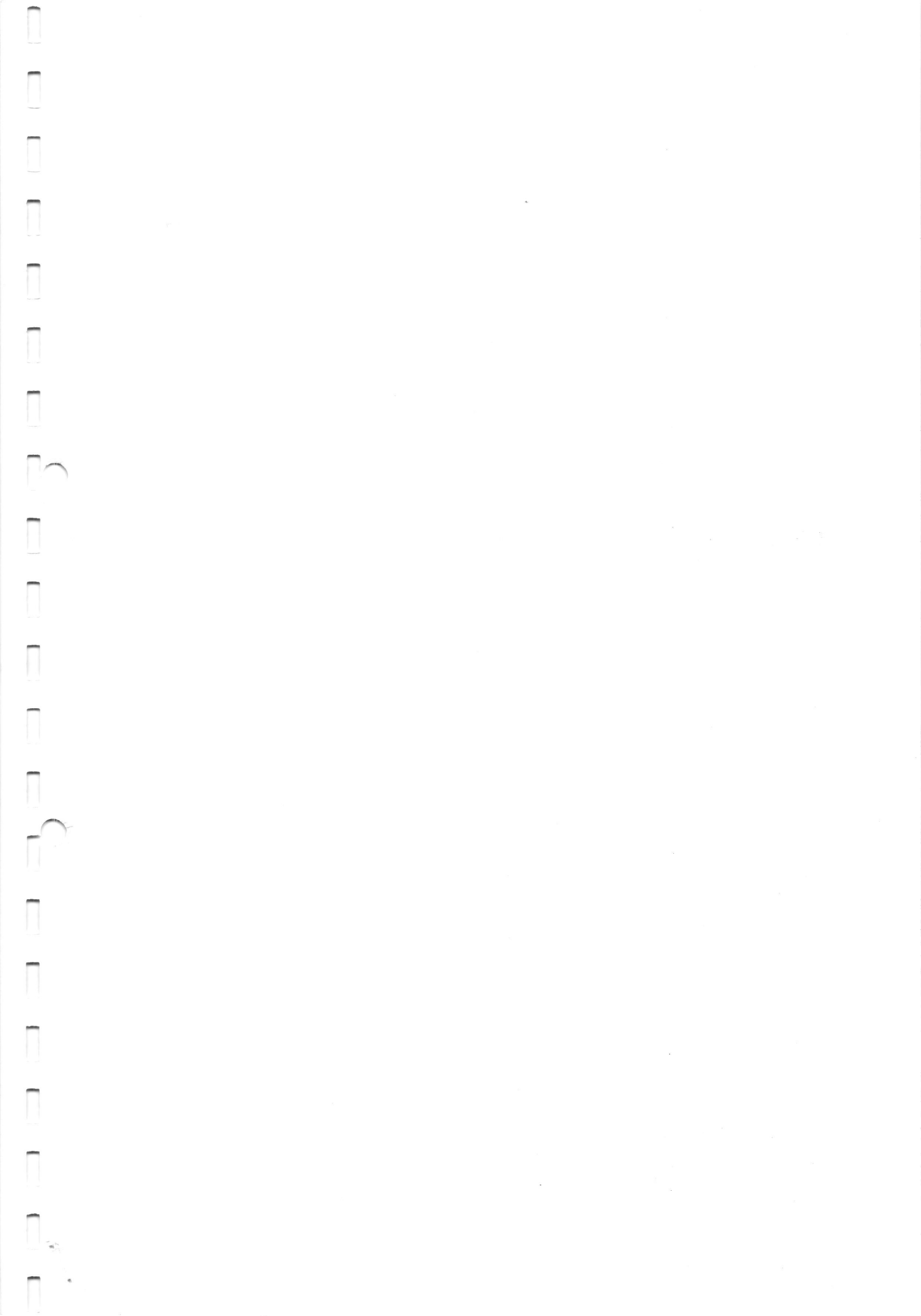
Choose and circle the most appropriate answer:

- Which of the following variable name is allowed in C?  
a. H\*O                      b. H\_2O                      c. 2HO                      d. H+2O
- Which of the following statement is correct declaration for constant value?  
a. #define MAX=10;                      b. #define MAX 10;  
c. define MAX 10                      d. #define MAX=10
- Which of the following is not the bitwise operator?  
a. &                      b. |                      c. !                      d. ?
- Which of the following is not a keyword of C?  
a. int                      b. double                      c. auto                      d. function
- Continue statement is used to  
a. go to the next iteration in a loop                      b. exit and return to the main function  
c. come out from a loop                      d. restart iterations from beginning of loop
- The output of the following looping statement is  
void main()  
{  
    for(;;)  
    {  
        printf("1");  
    }  
}  
a. 1 is printed infinitely                      b. run time error  
c. compile time error                      d. 1
- Which of the following function is more appropriate for reading the multi-word string?  
a. printf()                      b. puts()                      c. scanf()                      d. gets()



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17. An external variable is one
- a. Which is globally accessible by all the functions
  - b. Which is declared outside the body of function
  - c. Which resides in the memory till the end of the program
  - d. All of the above
18. ...., the memory allocation function allocates a single block of memory.
- a. malloc()
  - b. calloc()
  - c. free()
  - d. both a and b
19. What is the output of the following code?
- ```
int main()
{
    int *ptr, n=5;
    ptr=&n;
    *ptr+=1;
    printf("%d %d",*ptr,n);
}
```
- a. 5, 5
  - b. 6, 6
  - c. 5, 6
  - d. 6
20. What is the output of the following code?
- ```
void main()
{
    char *str= "hello";
    int *ptr=str;
    printf("%c %c",ptr[0],str[1]);
}
```
- a. h h
  - b. h e
  - c. h i
  - d. h o



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Level : B.Sc./B.Pharm./B.Tech.  
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. What do you mean by ternary operator? Explain with suitable example. [1+3]
2. Explain the following loop control statements in C with example.  
a. Switch statement  
b. Break statement [2+2]
3. Differentiate between while loop and do-while loop. Write a C- program to check either the input number is palindrome or not. [2+2]
4. What is recursion? Write a program to print the Fibonacci series up to  $n^{th}$  term using recursion. [1+3]
5. Explain Implicit and Explicit type conversion with suitable examples. [4]
6. How can you create a pointer variable? Write a program to swap the two numbers using pass by reference. [1+3]
7. Explain the life and visibility of variables. Illustrate the use of Static Storage class with suitable example. [2+2]

SECTION "C"  
[2 Q.×8=16 marks]

Attempt **ANY TWO** questions.

8. Write a program to add the two input time (hr, min, sec) values and display the resultant time. (Note: Construct the structure "Time" to represent time in hr, min and sec, also construct the function "Sum" to add two input times, The function should return the structure.) [8]
9. Write a program to multiply two input matrices. (The program should also check whether multiplication is possible or not.) [8]
10. Differentiate between structure and union with suitable example. Write a program to store the record (E\_id, Name, Address, Salary, Department) of n number of employees and display the stored record of those employees. [4+4]

