

KATHMANDU UNIVERSITY  
End Semester Examination  
February/March, 2018

Marks scored:

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

Course : COMP 103  
Semester : I

Exam Roll No. : Time: 30 mins.

F. M. : 10

Registration No.:

Date : MAR 14 2018

SECTION "A"  
[20 Q. × 0.5 = 10 marks]

**Tick the most correct answer.**

- Which one is the correct order of operators according to higher precedence?  
[ a ] ++, \*, |, =      [ b ] \*, =, ++, |      [ c ] =, |, \*, ++      [ d ] |, ++, \*, =
- Which one of the followings operators has right-to-left associativity?  
[ a ] =      [ b ] ->      [ c ] ==      [ d ] >>
- Which one of the followings is not an unformatted I/O function?  
[ a ] putchar()      [ b ] putchar()      [ c ] puts()      [ d ] printf()
- Which is not jump statement?  
[ a ] continue      [ b ] break      [ c ] return      [ d ] none
- The switch-case statement tests the value of an expression against a list of \_\_\_\_\_ constants.  
[ a ] char or float      [ b ] integer or float      [ c ] char or integer      [ d ] integer
- How many types of control of repetition are there?  
[ a ] 3      [ b ] 4      [ c ] 2      [ d ] 5
- Which one is TRUE with respect to return statement?  
[ a ] A function can return more than one values  
[ b ] A function body can contain one or more return statements  
[ c ] A function body must contain one return statement  
[ d ] All
- Which one is FALSE with respect to pass by value?  
[ a ] There is a one-to-one match of the list and type of the formal arguments with the actual arguments  
[ b ] The copy of actual parameters (formal parameters) is changed and actual parameters are un-affected  
[ c ] The copy of actual parameters (formal parameters) is changed and actual parameters are affected  
[ d ] The value of each actual parameter will be passed as input to the called function through the corresponding formal parameter
- What is the default initial value of static storage class?  
[ a ] garbage value      [ b ] octal      [ c ] floating point value      [ d ] zero

MAR 14 2018

10. What is NOT TRUE about strcmp(s1, s2) function?  
[ a ] It returns less than zero if s1 is less than s2  
[ b ] It returns greater than zero if s1 is greater than s2  
[ c ] The comparison is based upon the length of s1 and s2  
[ d ] The s1 and s2 are compared lexicographically
11. Which of the followings is NOT TRUE for an array?  
[ a ] the individual values in an array are called subscripts  
[ b ] an array has a common variable name  
[ c ] an array is a collection of the same type of data  
[ d ] an array is a collection of homogeneous data
12. What is the output of the following code ?  

```
#include<stdio.h>
int main() {
    printf("Nepal"); }
return 0;
```

  
[ a ] Nepal                      [ b ] warning                      [ c ] compilation error                      [ d ] runtime error
13. What is the output of the following code ?  

```
#include<stdio.h>
int main() { int a;
    for(a=1;a<=10;a++)
        { if(a==5);
          printf("%d", a);
          break; }
return 0; }
```

  
[ a ] 1234                      [ b ] 12345678910                      [ c ] 1234678910                      [ d ] 1
14. What is the output of the following segment of code ?  

```
#include<stdio.h>
int main() { int *p, q=50;
    p=&q;
    *p+=75;
    printf("The value of q is %d", q);
return 0;}
```

  
[ a ] 125                      [ b ] 50                      [ c ] 75                      [ d ] error
15. What is the output of the following program ?  

```
#include<stdio.h>
int main() { char **pp, *p, ch;
    p=&ch;
    *pp=&p;
    **pp='R';
    printf("The value of *pp is:%c",*pp);
return 0; }
```

  
[ a ] compilation error                      [ b ] segmentation fault  
[ c ] The value of \*pp is:R                      [ d ] fatal error

16. What is the output of the following program ?

```
#include<stdio.h>
typedef struct{
    int i;
    int myarr[20][5];
    char mychar[30];
    long double *ptr;
    float f;
    double d;
}Record;

int main() {
    Record R;
    printf("The size of the Record is:%d bytes", sizeof(R));
    return 0; }
```

- [ a ] The size of the Record is:458 bytes      [ b ] The size of the Record is:456 bytes  
 [ c ] The size of the Record is:452 bytes      [ d ] The size of the Record is:462 bytes

17. What is the output of the following program ?

```
#include<stdio.h>
typedef struct{
    int m;
    int n;
}newtype;

int main() {
    newtype t;
    t.m=10;
    t.n=20;
    m=40;
    n=50;
    printf("%d%d%d%d",t.m, t.n,m,n);
    return 0; }
```

- [ a ] 10204050      [ b ] 1020  
 [ c ] segmentation fault      [ d ] compile time error

18. What is the output of the following program ?

```
#include<stdio.h>
int main() {
    int a=500, b=1005,c;
    c= a>>4 & b<<3;
    printf("The value of C is:%d",c);
    return 0; }
```

- [ a ] The value of C is:8      [ b ] error  
 [ c ] fatal error      [ d ] The value of C is:0

MAR 14 2018

19. What is the output of the following program ?

```
#include<stdio.h>
int main() {
    int a=20, b=30, c=15, d=25, e=5, f=35;
    if(a>b && b<c || d!=e && e<a)
        printf("Kathmandu\t");
        printf("University\n");
    return 0; }
```

[ a ] error    [ b ] Kathmandu    [ c ] University    [ d ] Kathmandu University

20. What is the output of the following program ?

```
#include<stdio.h>
#include<string.h>
int main() {
    char str1[10] = {"Kathmandu"};
    char str2[10] = {"Mankind"};
    int n=2;
    printf("The resultant string is: %s",strncpy(str1,str2,n));
    return 0; }
```

[ a ] KathmanduMa    [ b ] Mathmandu    [ c ] Kathmandd    [ d ] KathmanduMankind