# THE LNM INSTITUTE OF INFORMATION TECHNOLOGY, JAIPUR QUIZ III

## **Computer Programming**

Time: 55 Minutes	Maximum Marks: 25

Name:......Roll No: .....

## **Important Points**

- 1. Write explanation for each answer else no marks will be awarded
- 2. See the below if error mention it, else write output for same
- 3. maximum marks: 2 marks from question 1 11 and question 12 has 3 marks

```
1. #include<stdio.h>
main()
{
    register i=5;
    char j[]= "hello";
    printf("%s %d",j,i);
}
```

#### Answer:

hello 5

## Explanation:

if you declare i as register compiler will treat it as ordinary integer and it will take integer value. i value may be stored either in register or in memory.

```
2. void main()
{
    char s[]="man";
    int i;
    for(i=0;s[i];i++)
    printf("\n%c%c%c%c", s[i], *(s+i), *(i+s), i[s]);
}
```

#### Answer:

mmmm aaaa nnnn

## Explanation:

s[i], \*(i+s), \*(s+i), i[s] are all different ways of expressing the same idea. Generally array name is the base address for that array. Here **s** is the base address. **i** is the index number/displacement from the base address. So, indirecting it with \* is same as s[i]. i[s] may be surprising. But in the case of C it is same as s[i].

```
3. main()
{
    char a[100];
    a[0]='a';a[1]]='b';a[2]='c';a[4]='d';
    abc(a);
}
abc(char a[]){
    a++;
    printf("%c",*a);
    a++;
    printf("%c",*a);
}
```

**Error:** Function not declared

If declared then Answer: bc Explanation:

The base address is modified only in function and as a result a points to 'b' then after incrementing to 'c' so be will be printed.

```
4. #include<stdio.h>
   main()
                                                   Answer:
                                                                 Compiler Error
                                                          Explanation:
       struct xx
                                                                 You should not initialize variables in
                                                          declaration
           int x=3;
           char name[]="hello";
       struct xx *s;
       printf("%d",s->x);
       printf("%s",s->name);
5.
      void main()
                                                   Ans: 1,2,3,4
int i;
for(i=1;i<4,i++)
switch(i)
case 1: printf("%d",i);break;
case 2:printf("%d",i);break;
case 3:printf("%d",i);break;
switch(i) case 4:printf("%d",i);
                                                   Answer: Forget it
6.
                                                   Explanation: printf will return 5 not of same will make
 void main()
                                                   it false so else part is executed.
              int i;
              char a[]="Hello\0";
              if(!printf("%s\n",a))
                     printf("Ok here \n");
              else
                     printf("Forget it\n");
```

```
A structure pointer is defined of the type
                                                  Struct time
time. With 3 fields min, sec hours having
pointers to integers. Write the way to initialize
                                                   int *min;
the 2nd element to 10.
                                                  int *sec;
                                                  int * hour
                                                  }*p;
                                                      *p = (struct time*)malloc(sizeof(struct time));
                                                       p->sec = (int*)malloc(sizeof(int));
                                                       p->sec = 10;
8. char *foo()
                                                  Ans: anything is good.
char result[100]);
strcpy(result,"anything is good");
return(result);
void main()
char *j;
j=foo()
printf("%s",j);
                                                         Error: Function not declared
typedef int integer
                                                         If declared then
 void main()
                                                         Answer: 10 10 10 13
             int i=10;
             void f(int,int,int);
             f(i++,i++,i++);
             printf(" %d",i);
void f(integer i,integer j,integer k)
  printf(" In function %d, %d, %d, i,j,k);
   10. main()
                                                        Answer:
                                                               I hate U
      float me = 1.1;
                                                         Explanation:
       double you = 1.1;
                                                               For floating point numbers (float, double,
                                                  long double) the values cannot be predicted exactly.
       if(me==you)
             printf("I love U");
                                                  Depending on the number of bytes, the precession
       else
                                                  with of the value represented varies. Float takes 4
                                                  bytes and long double takes 10 bytes. So float stores
             printf("I hate U");
                                                  0.9 with less precision than long double.
```

### Answer:

54321

## Explanation:

When *static* storage class is given, it is initialized once. The change in the value of a *static* variable is retained even between the function calls. Main is also treated like any other ordinary function, which can be called recursively

12. Write a program that read the name of file by system command. File contain set of characters terminated by '\0'. Read the characters convert them into upper case and print the data on screen.

## **Covered in Class**