

Name:

MTH409: QUIZ-2B

Roll No.:

1. Write down the output of the following C program

```
#include <stdio.h>
typedef struct dt
{
    int dd,mm,yy;
}dob;
int main()
{
    dob p,*r;
    int a,*q;
    q=&p.mm;
    r=&p;
    r->mm=4;
    *q=6;
    p.dd=23;
    r->yy=2012;
    r->dd=21;
    printf("x=%d y=%d z=%d\n",p.dd,p.mm,p.yy);
    p.mm=7;
    a=*q+r->mm+p.mm;
    printf("w=%d\n",a);
    return 0;
}
-----
x=      y=      z=
w=
```

2. The following C statements are part of a C program. Write down the output.

```
i. int a=3,b=2,c=1;
    int *p,*q,**r;
    p=&a;
    r=&q;
    q=&c;
    a=*q+**r;
    printf("x=%d y=%d z=%d\n",**r,*p,*q);
    *r=p;
    a=*q+**r;
    printf("w=%d\n",a);
-----
x=      y=      z=
w=
```

```

ii. int a[3][4]={{4,3,2,1},{10,9,8,7},{1,2,3,4}};
    int *p,**q;
    q=&p;
    p=a[1]+1;
    printf("x=%d  y=%d\n",p[1],**q);
    printf("u=%d  v=%d\n",*(*(a+2)-1),*(p+3));
    printf("r=%d\n",*(a+1)+4);

```

x= y=

u= v=

r=

```

iii. char *p="B for Balloon";
      char q[15]="A for Apple";
      printf("x=%c  y=%c\n",*(p+10)-2,&q[4]-2));
      printf("u=%c  v=%c  w=%d\n",p[8],*q+8,8[p]-q[8]);

```

x= y=

u= v= w=

3. The output of the program is **5 4 2 1 4 8**. The program uses a single function **achnge**. Complete the function.

```

#include <stdio.h>
//write the function prototype here
int main()
{int a[5]={5,4,3,2,1},n=5,m,i;
m=achnge(a+3); //function called here
for(i=0;i<n;i++)
{
    printf("%d  ",a[i]);
}
printf("%d\n",m);
return 0;
}
//write the function here

```