

Name:

MTH409: QUIZ-1A

Roll No.:

1. The following is part of a C program. Circle the errors with a brief explanation. [5]

```
int Double,char,print,d;
char a=W,b#a,z;
double 2a,c=Double,x=2,y;
2==d+y;
y+2=4.0;
d+y > 6;
y=z;
```

2. The following C statements are part of a C program. Write down the output. [9]

a. int x=3,y=3,z;  
z=x++ + y > y+3 ? ++y:7;  
printf("x=%d y=%d z=%d\n",x,y,z);

-----  
x=        y=        z=  
-----

b. int a=3,b=8,c;  
c = a + b%a\*b/a\*a;  
printf("c=%d\n",c);

-----  
c=  
-----

c. int i=0,j=1,k=-1,m;  
m=(i++ && --j) || k++;  
printf("i=%d j=%d k=%d m=%d\n",i,j,k,m);

-----  
i=        j=        k=        m=  
-----

3. The following program calculates the value of  $z$  from the definition

$$z = \begin{cases} 0 & x < -2 \\ 1 & x = -2 \\ 4 - x^2 & -2 < x \leq 2 \\ 4 & x > 2. \end{cases}$$

Complete the program by inserting suitable statements after the comment.

[6]

```
#include <stdio.h>
int main()
{
double x,z;
printf("Enter x:");
scanf("%lf",&x);
/*Insert the statements in the space below*/
printf("x=%0.2lf  and z=%0.3lf\n",x,z);
return 0;
}
```