

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

```
int double,Char,printf,d;
char a=73,b#a,z;
double c=Char,x=2,y,2a;
d+y=2;
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=4,y=4,z;`
`z=x++ + y > y+5 ? ++y:9;`
`printf("x=%d y=%d z=%d\n",x,y,z);`

x= y= z=

b. `int a=3,b=7,c;`
`c = a + b*a*b/a*a;`
`printf("c=%d\n",c);`

c=

c. `int i=-1,j=1,k=0,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

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

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;
}
```