

Roll No.:

Name:

Time:8:00–08:40

Midsem:MTH409A

Maximum Marks 20

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

```
Q1. int i=4,j,k;
      for(j=1,k=2; ;j*=2)
      {
          if((i+j % 7 == 0) || (j>5))
          {
              break;
          }
          if((i+j) % 2 != 0)
          {
              i++;
              continue;
          }
          k=i+j;
      }
      printf("%d %d %d\n",i,j,k);
```

j= j= k=

```
Q2. int i=-497;  
      double a=437.268;  
      printf("%+7d\n",i);  
      printf("%+-7d\n",i);  
      printf("%+09.2f\n",a);  
      printf("%11.2e\n",a);
```

```
Q3.      int x=3, y=15, z;
          z = ++y % ++x !=0 ? 1:0 ;
          x +=4/5;
          y += (z==0);
          printf("x=%d  y= %d z =  %d\n", x, y, z);
```

x= v= z=

```

Q4.    int i=3, j=3, m=0;
        while(i+j<=12)
        {
            m += i + j;
            if(j%2==0)
            {
                i *=2;
                continue;
            }
            if(i%2 ==0)
            {
                j =!i;
                continue;
            }
            i *=2;
        }
        printf("i=%d  j=%d  m=%d\n", i, j, m);

```

i= j= m=

```

Q5.    int a,b,c,i;
        printf("Enter two integers:");
        scanf("%d%d",&a,&b);
        for(i=1;i<=a && i<=b;i++)
        {
            if(a%i==0 && b%i==0)
            {
                c=i;
            }
        }
        printf("c=%d\n",c);

```

(i) If a=12,b=9, then c=_____.

(ii) If a=12,b=7, then c=_____.