

Question 1:

Int x=1, y=7, z=0; double i=1.5, j=-0.7; char a='m';

1.  $x * y - z / i$   
 $= 1 * 7 - 0 / 1.5$   
 $= 7 - 0.0$   
 $= 7.0$
2.  $3 * (2 * x + 1) / x$   
 $= 3 * (2 * 1 + 1) / 1$   
 $= 3 * 3$   
 $= 9$
3.  $x \&\& y | z$   
 $= 1 \&\& 7 | 0$   
 $= 1 | 0$   
 $= 1$
4.  $(\text{double}) x / i * y$   
 $= 1.0 / 1.5 * 7$   
 $= 0.6666 * 7$   
 $= 4.6666$
5.  $a / y + (\text{int}) i / x$   
 $= 109 / 7 + 1 / 1$   
 $= 15 + 1$   
 $= 16$
6.  $i > j \& j > x || !z$   
 $= 1.5 > -0.7 \& -0.7 > 1 || !0$   
 $= 1.5 > -0.7 \& -0.7 > 1 || 1$   
 $= 1 \& 0 || 1$   
 $= 0 || 1$   
 $= 1$
7.  $x+y--z++$  → after evaluating this line y= 6 and z= 1  
 $= 1+7+0$   
 $= 8$
8.  $--x > z++ ? y-- : i * j$   
→ before evaluating this line x= 0 and after z= 2 but y won't change because "if" was false  
 $= 0 > 1 ? 6 : 1.5 * -0.7$   
 $= -1.05$
9.  $a ? y - x : x - y$   
 $= 109 ? 6 - 0 : 0 - 6$   
 $= 6$
10.  $x = 5 ? (y = z) : (z = y)$   
→  $x = 5 ? (y = 2) : (z = 6)$   
→  $5 ? 2 : 6$   
→ 2

Question 2:

```
printf("%6d, %4d\n", 86, 1040);
```

➔ 86, 1040

```
printf("%12.5e\n", 30.253);
```

➔ 3.02530e+01

```
printf("%d\t%c\n", (int)30.253, (char)83.162);
```

➔ 30 S

```
printf("%s-%s-%d\n", CC, city, 4334567);
```

➔ +966-11-4334567

```
printf("%d:%d:%d %cM (%d/%d/%d)", 9, 3, 7, b, 12, 7, 16);
```

➔ 9:3:7 PM (12/7/16)