

COP 3223 Sec 1: Spr'09 C Programming Test 1 Practice (50 points)

1. (10 points)

Write down the printed output of this program. Mark your blank chars too.

WRITE YOUR OUTPUT BELOW HERE

```

#include <stdio.h>
                                     |
                                     | Out Line 1 |
int main(void)                       |
{   float f;                         |
    int a,i;                          | Out Line 2 |
    a = 0;                             |
    a = a + 1;                         |
    printf ("A= %d\n", a);             | Out Line 3 |
    a += 2;                            |
    a--;                                |
    a++;                                | Out Line 4 |
    printf ("B= %d\n", a);             |
    i=2;                               |
    f=5.0;                             | Out Line 5 |
    printf ("F= %f\n", f/i);          |
    a=5;                                |
    printf ("C= %d\n", a/i);          | Out Line 6 |
                                     |
    return 0;                          |
}

```

2. (10 points)

Write down the printed output of this program. Mark your blank chars too.

WRITE YOUR OUTPUT BELOW HERE

```

#include <stdio.h>
                                     |
                                     | Out Line 1 |
int main(void)                       |
{   float f;                         |
    int a,i;                          | Out Line 2 |
    a = 0;                             |
    a = a + 1;                         |
    printf ("A= %4d\n", a);            | Out Line 3 |
    a += 2;                            |
    a = a % 2                          |
    a++;                                | Out Line 4 |
    printf ("B= %5d\n", a);            |
    i=2;                               |
    f=5.0;                             | Out Line 5 |
    printf ("F= %6.2f\n", f/i);        |
                                     |
    return 0;                          |
}

```

3. (15 points) Trace the following program:

ENTER YOUR TRACE BELOW

Prog Line #	a	b	c	print or other action
1. #include <stdio.h>				
2.				
3.				
4. int main(void)				
5. {				
6. int a=1 , b=4, c=3;				
7. a += 2;				
8. if (a <= b)				
9. {				
10. if (b <= c)				
11. printf ("c= %d\n", c);				
12. else				
13. printf ("c= %d\n",a+c);				
14. }				
15. else				
16. printf ("b= %d\n", b);				
17. b -= 1;				
18. if (a <= b)				
19. printf ("a= %d\n", a);				
20. else				
21. printf ("b= %d\n", b);				
22.				
23.				
24. return 0;				
25. }				

