Cadance Sample Question Paper

Technical

- 1. In assembler relocatable code generated by ...!!?? asn: indirect addressing
- 2. int v,u;

```
while(v != 0)
{
    t = v % u;
    v = u;
    u = t;
}
```

find the time complexity of the above program.

3. x is passed by reference, y passed by value.

```
x = 3, y = 2;
foo(x, y)
var integer x, y;
{
    x = x + 2;
    y = y + 3;
}
main()
{
    x = 5;
    y = 5;
    foo(x, y);
    print (x, y);
}
```

output of the above pseudo code.

- 4. How many flip flops you require for modulo 19 counter.
- 5. ring counter's initial state is 01000. after how many clock cylces will it return to the initial state.
- 6. some boolesn expression of the form x'y'z' + yz + .. (something like this) find the simplified expression
- given 6 bit mantissa in 2s complement form and 4 bit exponent is in excess-4 form in a floating point representation, find the number ans -(something) * (2 to the power 3)
- 8. A signed no is stored in 10-bit register, what is the max and min possible value of the number.

Aptitude

1. log(X**3 + Y**3) where x=3/4 y=1/4 log(3), log(7) & log(2) is given ...

ans:-0.385

2. last question of paper .. sum of money of A & B =Rs.10 diffrence of A + B = Rs.9

ans : 50 pesa

- 3. one paper is equilely folded 50 times... what is new thikness of paper.. ans: 2**50
- 4. connect nine point without take-off pen & without overlapping line segment

```
1 2 3 4
* * * 5
* * * 6
0* * * 7
```

- ans: start with 0 to 1 to 7 to 0 to 4.
- 5. A room is 30 X 12 X 12. a spider is ont the middle of the samller wall, 1 feet from the top, and a fly is ont he middle of the opposite wall 1 feet from the bottom. what is the min distance reqd for the spider to crawl to the fly.
- 6. A man while going dowm in a escalator(which is miving down) takes 50 steps to reach down and while going up takes 125 steps. If he goes 5 times faster upwards than downwards. What will be the total no of steps if the escalator werent moving.
- 7. 2/3 of corckery(plates) are broken, 1/2 have someother thing(handle) broken, 1/4 are both broken and handle broken. Ultimately only 2 pieces of corckery were without any defect. How many crockery were there in total.
- It is difficult to draw a figure but another question was in which some NAND and OR gates were given.

ans - Z = true.