

Sample STMicroelectronics Placement Paper

Part 1: 1 marks questions were like...(Aptitude was quite easy)

1. There is pipe with given radius, a small pipe of given radius. How many pipes of smaller radius will contain the same quantity of liquid kept by larger radius tube?
2. A ladder is standing against a wall of 25m height at a distance of 7 km from wall. Suddenly Ladder slips 4m down from top. How much will it move from the earlier 7m distance from the wall?
3. A person likes 225 not 224, like 900 not 800, from given vat will he like?1600,1500.. (Answer is simply ny given square term(1600)..c pattern of his liking
4. Three co-ordinates of triangle was given.. we had too find type of triangle it is..
5. A square is cut from a circle and a circle is cut from that square. how much area is remaining ?.
6. In equilateral triangle a circle is drawn. In that circle one square is drawn. Find the ratio of area of equilateral triangle to square?
7. Question on simple average speed..
8. Question on angle between hands of a clock?

Technical:-

1. `int *p;`

`P=(int *p)malloc(100);`

Wat is `sizeof(p)`,`sizeof(*p)`

2. A question on find the worst case complexity of Quick Sort(ans : $O(n^2)$)
3. Piggy Backing is For ?(Acknowledgement)

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4. In POP operation of Microprocessor how it process the instruction

Ans: it pops the instruction and decrements the stack pointer

5. Where does Global, Local and static variables of a program lie?

6. 3 questions on H/w ..that I could not solve?.

7. 1 question on Boolean expression (a simple one)

8. Static variables don't change their value as they are stored in

a) stack b) data segment c) heap d) none

9. #program pack(1)

Struct a

{

Int a:4;

Int b:45;

Char c;

}

What is the size of struct if int is of four bytes .

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Ans is 5

10. a question on bitwise operator

```
5.int i=90;
```

```
Char *p;
```

```
P=(char *)&i ;
```

```
P++;
```

Pointer is Incremented by 2,1,4 or none of these

11.#define scanf "%s" is string?

```
Main()
```

```
{
```

```
Printf(printf,scanf);
```

Ans; %s is string is string

12. char str={"neha"};

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```
printf("hello \n? %s? \n?",str);
```

output : ?

13. One question on page table. we had to find page size

14. One question on memory access time of a program with given hit ratio and given cache access time..(revise the formula from OS)