

TATA Elxsi Placement Paper

```
1. int a=9;
switch(i)
{
printf("hello");
case 9 : printf("abc");
break;
default : printf("def");
}
```

what would be the output ?

ans : the program will compile correctly with no errors but will give undesirable results

```
2. int z[3]={1,2,3};
int *p=&z[1];
int x=*p++;
printf("%d",x);
```

ans. note here that the value of *p will be assigned to x and then p is incremented therefore x=2

```
3. #define paste(a,b) a##b
main()
{
int a=3,b=6;
paste(a,b);
return 0;
}
```

question. what code will be replaced at the call of the macro

options : (a,b) a,b (a,b)

(ab) a,b (ab)

(a,b) ab (a,b)

ans. not able to work it out

```
4. some structure declaration was given
struct abc
{
int a : 4
char c : 2
int abc;
}
```

ques. what will be memory allocated to it when we define an object of this structure

ans . the bits are added and rounded of 2 next higher byte

eg. 5 bits - 1 byte

1 bit - 1 byte

9 bits - 2byte

5. some ques. on memory allocation so clear ur funda of memory allocation properly

6. To declare a boolean variable in C what method we follow ans. using bit fields

7. What does painter's algo. is for in graphics ans. don't know
8. Which is more efficient calling a function by its name or by using a pointer to the function
9. External functions and external variables are all global
10. There are 5 jobs A B C D and E u have to schedule these jobs using the SPT , DD and STR (i cant remember
11. the fullforms) and job processing time was given constraints:
 Spt = DD
 STR = DD - SPT
 ANS: using this table u can solve the eqs Freshersworld.com
 spt E C A B D
 DD E A C B D
 STR E A/B D C
 order of excution
12. $c = \text{prt}/\text{ropd}$ prt = production/rate ropd = rotations Nt = T/c E = $T/Na * c$ Na = whole number
 according this formula there WERE 5 qs
13. A B C D E are 5 boys and find the ages of them given 1) B-A = 5
 2) B>A
 3) D>F
 4) E-D<2
 5) D-F > 2
 6) All of the above are false
14. About the graphics similar to java function draearc drawrect, find the area, center by giving values to function drawarc.
 1. about process (os)
 2. stacks (data struct..)
 3. graphs (binary trees)
 4. time complexity of the c program they had given
 5. c program (recurrision find the no. of print stat exec. in the recu. func. ans. 4)
15. About the soft. engineering i.e identify the phases
 1) collecting the information - requirement analysis phase testing or design .. (similarly identify the 5 statemnets they had given)
16. Choose the correct expression
 ((())) correct
 ()()() incorrect.