

## HCL Technical Test 3

### APTITUDE PAPER

1. The closing of the restaurant by Mr. X on SEPT 1 was considered an unfinancial one, as the weather remained unusually clear and sunny for another one month. An author who criticizes the act of Mr. X would be proved wrong if the following was true??  
ANS choice a) the weather did not usually remain fine after SEPT 1.
2. SUSAN works in a company who has restricted its employees from smoking cigarettes in the canteen. As Susan is the employee of the company she does not smoke cigarette in the canteen. Which of the following unused phrases strengthens the rules of the company??  
ANS the employees normally do not do the work for which the company has forbidden them to do.
3. A q's on family relation was given like How many sons X has, I P is the daughter of X, II some cond., III some cond. ANS a) I, II, III together are not sufficient.
4. A q's in which a name KAPIL is given he visits Manoj's home. some condts given. ANS b)
5. A, B, C, D are the 4 plays which are organised starting from Tuesday. find the day on which C was played. in this 2 cond. will be given as I....., II....., ANS both I and II
6. A quest on cryptography like  
A B C D  
E F G H  
-----  
. .... is A=, find the other values. practice these types of quest.
7. A question on race was given. hell lot of condts. finally they make a team for 4\*100 metres medal.  
ANS E none of the above
8. Piggy backing is a technique for a) Flow control b) sequence c) Acknowledgement d) retransmission  
ans: c piggy backing
9. The layer in the OST model handles terminal emulation a) session b) application c) presentation d) transport  
ans: b application
10. In signed magnitude notation what is the minimum value that can be represented with 8 bits  
a) -128 b) -255 c) -127 d) 0 ANS a)
11. A 120(25 hz) processor, what is the time taken by the instr which needs 3 clock cycles)
12. A system call (context switching is used in)

13.B the operating system(mapping of virtual to physical address)

14.A 177333(conversion of HEX "0xFEDB" in octal)

15.D used as a network layer protocol in network and windows(OLE) system

16.B has to be unique in the sub network(internet address)

17. There is an employee table with key fields as employer no. data in every n'th row are needed for a simple following queries will get required results.

a) select A employe no. from employe A , where exists from employe B where A employe no.  $\geq$  B employe

having (count(\*) mod n)=0

b) select employe no. from employe A, employe B where A employe no.  $\geq$  B employe no. group by employe no.

having (count(\*) mod n=0 )

c) both a& b d) none of the above

18. type duplicates of a row in a table customer with non uniform key field customer no. you can see

a) delete from customer where customer no. exists ( select distinct customer no. from customer having count )

b) delete customer a where customer no. in (select customer b where customer no. equal to b customer no.)

and a rowid > b rowid c) delete customer a where customer no. in ( select customer no. from customer a,

customer b ) d) none of the above

19. which feature in ANSI C but not in JAVA.??ANS variable arguments.

20. preprocessor does not do one of the following??ANS type checking.

21. long int size a) 4 bytes b) 2 bytes c) compiler dependent d) 8 bytes

ans: compiler dependent

22. x=2,y=6,z=6 x=y==z;

printf("%d",x) ?ANS 1

23. class c : public A, public B

a) 2 members in class a,b can have member functions with same name.

b) 2 members in class a,c can have member functions with same name. c) both

d) none(ANS)

24. What will be the output of the following program

```
main()
{
    char *p;
    p=malloc(10);
```

```
free(p);
printf("%d",p);
}
ANS compilation error
```

25. a=(10,15), b=10,15 what are the values of a & b in ANSI C ANS 15,10

```
26.main()
{
int x=10,y=15,z=16;
x=y=z;
printf("%d",x);
}
ANS 0
```

```
27.f(n) f(x)
{
if(x<=0)
return;
else f(x-1)+x;
}
find the value of fn(5)? ANS 15.
```

```
28. struct {
int det;
struct prevoius;
struct new;
}
delete(struct node)
{
node-prev-next=node-next;
node-next-prev=node-prev;
if(node==head)node
}
one element will be given. ANS::it does not work when rp is the last element in the link list.
```

```
29.main()
{
int var =25,varp;
varp=&var;
varp p=10;
fnc(varp);
printf("%d%d",var,varp);
}
ANS::55,55 (check this out)
```

```
30.#define VALUE 1+2
main()
{
```

```
printf("%d and %d\n",VALUE/VALUE,VALUE*3);
}
ANS:: 5,7
```

31. What is the value assigned to the variable a if b is 7 a=b>8?b<<2:b>4?b>>1:b; ANS::3
32. The value of the following expr  $(2^3)+(a^a)$  is a) 1 b)2 c) 3 d) insufficient data
33. Which of the following is not basic data type ANS char\*
34. The declaration of the variable does not result in one of the following ANS allocation of the storage space for the variable.
35. In C parameters are passed by ANS:: value only.
36. 2 variables cannot have the same name if they are ANS:: in the same block.
37. A static funct. say s(), in as file f.c can be invoked from ANS all functs. in f.c after the definitions of s.
38. Macros and functions do not differ in the following aspects ANS::variable no of arguments.
39. One q's in which he will give some different forms of STRCPY function you will have to find out which form is correct.