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HCL Aptitude Test Nov 26th 2006

- 1) a) NMI
- b) Software interrupts
- c) Hardware interrupts
- d) Software and hardware interrupt

Ans: b

2) Which of the following is error correction and deduction?

- a) Hamming code b) CRC
- c) VRC
- d) None

Ans: b

3) When you switch on your computer, which of the following component affect first?

- a) Mother board b) SMPS
- c) Peripherals d) None

Ans : a

4) Which of the following function transports the data?

- a) TCP/IP
- b) Transport layer c) TCP
- d) None

Ans: c

5) Which of the following does not consists address?

- a) IP
- b) TCP/IP c) Network d) Transport

Ans:a

6) They given like this.....

- a) pre order b) post order c) In order d) None Ans:c

7) Authentication means....

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- a) Verifying authority b) Source
- c) Destination
- d) Request

And some conditions?

Ans: a

8) Symorphous is used for

- a) Analysis
- b) Synchournization c) Asynchrouns
- d) None

Ans: b

9) There are five nodes. With that how many trees we can make?

- a) 27 b) 28 c) 30 d) 29

Ans: c (Check the ans not sure)

10) Traverse the given tree using in order, Preorder and Post order traversals. A

B

C

D

E

F

G

H

I

Given tree:

- Ø Inorder : D H B E A F C I G J
- Ø Preorder: A B D H E C F G I J
- Ø Postorder: H D E B F I J G C A

And some more questions..... I dint remember those questions

Given tree:

- Ø Inorder : D H B E A F C I G J
- Ø Preorder: A B D H E C F G I J
- Ø Postorder: H D E B F I J G C A

And some more questions..... I dint remember those questions

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SECTION –II (C language Basics and programming) this section consists of 20 Questions..... All are programs only...



1.

```
main()
```

```
{  
printf("%x",-1<<4);
```

```
}
```

a) fff0 b) fffb

Explanation:

Ans:

a

c) ff0 d) none

-1 is internally represented as all 1's. When left shifted four times the least significant 4 bits are filled with 0's. The %x format specifier specifies that the integer value be printed as a hexadecimal value.

2. main()

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```
{  
char *p;  
p="Hello"; printf("%c\n",&*p);
```

} a) e

d) ome garbage value

Ans: b

Explanation:

b) H

c) some

address

* is a dereference operator & is a reference operator. They can be applied any number of times provided it is meaningful. Here p points to the first character in the string "Hello". *p dereferences it and so its value is H. Again &

references it to an address and * dereferences it to the value H.

3. void main() {

int i=5;

printf("%d",i++ + ++i); }

a) 11

b) 12

c) 10

d) output cant be predicted

Ans: d

Explanation: Side effects are involved in the evaluation of i 4. main()

```
{  
int a[2][3][2] = { { {2,4},{7,8},{3,4}}, { {2,2},{2,3},{3,4}} }; printf("%u %u %u %d  
\n",a+1,*a+1,**a+1,***a+1);
```

}

a) 100, 100, 100, 2

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b) 101,101,101,2 c) 114,104,102,3 d) none

Ans: c **Explanation:** The given array is a 3-D one. It can also be viewed as a 1-D array.

247834222334
100 102 104 106 108 110 112 114 116 118
120 122

thus, for the first printf statement a, *a, **a give address of first element . since the indirection ***a gives the value. Hence, the first line of the output.for the second printf a+1

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increases in the third dimension thus points to value at 114, *a+1 increments in second dimension thus points to 104, **a +1 increments the first dimension thus points to 102 and ***a+1 first gets the value at first location and then increments it by 1. Hence, the output is C is correct answer...

5. main() {

```
static int a[ ] = {0,1,2,3,4};
int *p[ ] = {a,a+1,a+2,a+3,a+4};
int **ptr = p;
ptr++;
printf("\n %d %d %d", ptr-p, *ptr-a, **ptr); *ptr++;
printf("\n %d %d %d", ptr-p, *ptr-a, **ptr); *++ptr;
printf("\n %d %d %d", ptr-p, *ptr-a, **ptr); ++*ptr;
printf("\n %d %d %d", ptr-p, *ptr-a, **ptr);

} a) 111 222 332 443 b) 111 222 333 344 c) 111 222 333
```

444 d) None

Ans: b 6. #include

main() {

```
const int i=4;
float j;
j = ++i;
printf("%d %f", i,++j);
```

}

a) 8

b) 5

c) compile error d) syntax error

Ans: c

7. main() {

```
char *p; int *q; long *r; p=q=r=0; p++; q++;
```

```
r++; printf("%p...%p...%p",p,q,r);
```

}

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a) 001... 100...0002 b) 0001...0002...0004 c) 001... 002...004 d) none

ans: b 8. main()

```
{  
unsigned int i; for(i=1;i>-2;i--)  
printf("HCL Technologies");
```

```
}
```

a) HCL

b) Technologies

c) HCL Technologies d) None

Ans: None(Plz Check the answer)

9. main() {

```
printf("%d",*a+1-*a+3); }
```

```
int a[10];
```

a) 4

b) 5

c) 6

d) None Ans : a

10. main() {

```
}
```

a) Line no 5: Error: Lvalue required b) Line no 5: Error: Link error

c) Compile error

d) None

Ans: a

11. int swap(int *a,int *b)

```
{
```

```
*a=*a+*b;*b=*a-*b;*a=*a-*b;
```

```
} main() {
```

```
int x=10,y=20; swap(&x,&y);
```

```
printf("x= %d y = %d\n",x,y)
```

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```
}
```

a) x=10 y=20 b) x=20 y=10 c) x=30 y=20 d) none

Ans: b 12. main()

```
{  
int i=300;
```

```
char *ptr = &i; *++ptr=2; printf("%d",i);
```

```
}
```

a) 665 b) 565

```
float f=5,g=10; enum{i=10,j=20,k=50}; printf("%d\n",++k); printf("%f\n",f<<2);  
printf("%lf\n",f%g); printf("%lf\n",fmod(f,g));
```

c) 556 d) none

Ans: c 13.main()

```
{
```

```
float me=1.1; double you=1.1; if(me==you) printf("IloveU");
```

```
else  
printf("I Hate U") }
```

a) I love u
b) I hate u
c) floating point error d) Compile error

Ans: b 14.

```
enum colors {BLACK,BLUE,GREEN} main()
```

```
{  
printf("%d..%d..%d",BLACK,BLUE,GREEN);
```

```
return(1); }
```

a) 1..2..3 b) 0..1..2 c) 2..3..4 d) none

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Ans: b

Some more questions given.. I dint remember.... Be prepare all basic concept in C... so that you can answer very easily...

SECTION –III (Data structures and C++) this section consists of 10 Questions... Each question carry 2 marks... so they deduct 1/2 mark for wrong answer.....



```
1) #include  
  
main() {  
  
char s[]={ 'a','b','c','\n','c','\0' }; char *p,*str,*str1;  
p=&s[3];  
str=p;  
  
str1=s;  
  
printf("%d",++*p + ++*str1-32); }
```

- a)97
- b) M c)76
- d) none

Ans: b

2) main() {

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```
int a[ ] = { 10,20,30,40,50},j,*p; for(j=0; j<5; j++)
```

```
{  
printf(“%d” ,*a);
```

```
a++; }
```

```
p = a;  
for(j=0; j<5; j++)
```

```
{  
printf(“%d ” ,*p); p++;
```

```
} }
```

address of array Compile error Lvalue required none

a) b) c) d)

Ans: c

```
3) struct aaa{  
struct aaa *prev;
```

```
int i;  
struct aaa *next; };
```

```
main() {
```

```
struct aaa abc,def,ghi,jkl; int x=100;
```

```
abc.i=0;abc.prev=&jkl; abc.next=&def; def.i=1;def.prev=&abc;def.next=&ghi;  
ghi.i=2;ghi.prev=&def;
```

```
ghi.next=&jkl; jkl.i=3;jkl.prev=&ghi;jkl.next=&abc; x=abc.next->next->prev->next->i;  
printf(“%d”,x);
```

```
}
```

a) 3 b) 2 c) 4 d) 5

Ans: b

```
4) main(int argc, char **argv) {
```

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a) b) c) d)

```
printf("enter the character"); getchar(); sum(argv[1],argv[2]);
```

```
    } sum(num1,num2) int num1,num2;  
    {
```

```
return num1+num2; }
```

compile error

L value required Syntax error None

Ans: a

5)

```
class Sample
```

```
{ public:
```

```
int *ptr; Sample(int i)
```

```
{
```

```
ptr = new int(i); }
```

```
~Sample()
```

```
{
```

```
delete ptr;
```

```
}
```

```
void PrintVal()
```

```
{
```

```
cout << "The value is " << *ptr; }
```

```
};
```

```
void SomeFunc(Sample x)
```

```
{
```

```
cout << "Say i am in someFunc " << endl; }
```

```
int main()
```

```
{
```

```
Sample s1= 10;
```

```
SomeFunc(s1);
```

```
s1.PrintV al();
```

```
}
```

1. a) say I am in someFunc
2. b) say I am in someFunc and runtime error

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3. c) say I am in someFunc and null value
4. d) none

ans: b

and some questions given in DATASTURES... those are based on linked lists only also very big programs... so you have to do it very careful

SECTION-III (General aptitude+1 passage+Logical) this section consists of 20 questions.. Each question carry 1 mark...

1) Sandhya and Bhagya is having the total amount of 12000. In that amount bhagya has deducted 3600 as less as sandhya. So what is their shared amount?

1. a) 2800
2. b) 3600
3. c) 4800
4. d) 9600

Ans : c

2) Six persons have to present at certain meeting. The conditions are, A present P should present

M present T should present

K present P should present

If A and P present I should be there in meeting

If M and T present D should be absent

If K and P present P should present

Based on this they given some questions... Those are easy only.. you can do it easily...

3) Here they given passage following some questions.. Poetry explaining her experience with HINDI latest songs... and comparing with old songs... also she is a good singer. Like this they given a big

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passage... so read it carefully at a time.. so that u can save your time

4) Dhana and Lavanya started running at same point... But dhana started in anti clock wise direction, Lavanya started in clockwise direction.. Dhana met lavanya at 900 m . where as lavanya met dhana at 800 m... so how much distance they covered each other?

- a) 1700
- b) 900
- c) 1800
- d) data is insufficient

Ans: d

5) This question is base on Arithmetic mean like algebra... $a_{n+2} = (7+a_n)/5$ Initially $a_0 = 0$ so what is the value of a_2 ?

- a) $5/2$ b) $7/2$ c) $7/5$ d) none

Ans : c

6) Here they given two statements, based on that they gave some questions

Statement I : I is enough to answer Statement II: I and II is enough to answer

i) Raja can do a piece of work in 9 days... and govardhan can do a piece of work in 8 days. In how many days they will complete the work alternatively..

Statement I: They both do in $72/17$ days

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Statement II : A alone can do $\frac{1}{9}$ days
a) I b) I and II c) II d) none

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