

Honeywell Paper Aptitude - General

text have No negative marking and 3 sections -technical 35 questions in 30 mins-DCT, data structures,interrupts in 8085 etc.apptitude -30 questions in 30 mins ,C-20 questions in 15 mins-was quite easy some questions(not sectionwise)

key constraints arefor...

- (a) secondary key
- (b) primary key
- (c) foreign key
- (d)...

If a sinusoidal signal of 1100Hz is flat top sampled at a rate of 1800Hz,& this signal is passed through an ideal LPF with cutoff 1KHZ,the o/p contains the following frequency components: (This question was repeated again in the same paper !!!)

- (a)only 800Hz
- (b)...
- (c)...
- (d)...

TRAP is _____interrupt

- (a)synchronous
- (b)asynchronous
- (c)hardware
- (d)...

When the instruction RST is executed, the control jumps to location:

- (a)0020
- (b)0024
- (c)0028
- (d)none of the above

A memory cell in static Random Access Memory is made up of:

- (a)6 mos transistors---ans
- (b)1 mos transistor and 1 capacitor
- (c)4 mos transistors and 2 capacitors
- (d)...

Worst case algorithm is meant for the case

- (a)when sometimes favourable
- (b)when worst unfavourable
- (c)...
- (d)...

A semaphore with negative count n(s=n) has how many processes in the Q?

- (a)0
- (b)n
- (c)n+1
- (d)n-1

If in a PCM system the no of bits used is increased from n to n+1,the signal-to-noise ratio improves by

- (a)3dB
- (b)6dB
- (c)20ndB
- (d)24ndB

2 trains of length 110m & 90 m travelling at 45kmph & 50 kmph respectively..when will they pass each other?

- (a)144mins
- (b)102mins
- (c)..
- (d)...

From a circular sheet of radius 10cm , 40% is cut off & from the remaining portion a cone is constructed, what is the ratio of the radius of the cone to its height?

If a vessel contains 56 litres of a mixture of milk & water in the ratio 3:2..what amount of water should be added to make the ratio 4:5?

2 pipes fill a cistern in 12 mins,pipe A is 3 times faster than pipe b...if only pipe B has to fill the cistern ,how long will it take?

- (a)1hour
- (b)2hours
- (c)..
- (d)...

```
#define ADD(X,Y) X+Y
```

```
main()
{
    #undef ADD(X,Y);
    fun();
}
fun()
{
    int y=ADD(3,2);
    printf("%d,y);
}
```

o/p?
Runtime error(linker error): _add undefined in module

Which of the following is illegal

- (a)void v;
- (b)void *v;
- (c)void **v;
- (d)all are legal

```
#define int INTEGER/*line1*/
```

```
#define INTEGER int/*line 2*/
```

```
main()
{
    INTEGER p=10;/*line 5*/
    printf("%d,p);
}
```

o/p?

- (a) compiler error at line 1
- (b) compiler error at line 2
- (c) compiler error at line 5
- (d) No error,prints 10

ans:c

```
main()
{
    int counter=1;
    for(;;)
    {
        counter++;
        if(counter>9)
            break;
    }
}
```

in the above program

- (a)error b'coz for should have parameters
- (b)error bcoz 2 semicolons in a for loop are invalid
- (c)no error,loop is executed once
- (d) no error ,loop is executed 10 times

```
main()
{
    char str={'H','E','L','L','O','\0'};
    printf("%s/n,str+1);
}
```

- o/p?
- (a)prints ELLO
- (b)prints HELLO
- (c)prints ILLO (i.e.'H' is incremented by 1)
- (d)...

The average temperature for monday,wednesday,thursday was 46 o C.the average temperature fortuesday,wednesday,thursday,friday was 48(some no)..if temp on monday was 42 o C,what is the temperature on tuesday?

- (a)32
- (b)36
- (c)37
- (d)3....

The average marks of 12 students was found to be.....(some no)...it was later found that while entering the data , it had been entered as 74 instead of 50...and 20 instead of 24(nos are not the same)...what is the correct average?

- (a)32
- (b)36
- (c)37
- (d)3....

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If a lady bought a house & sold it at 25% more than what she had paid after 3 years, she has to pay 50%tax on the gain..If C is the cost price,(gain=s.P-c.p),what tax did she have to pay?

- (a)..
- (b)C/8
- (c)...
- (d)...

Some no of men(given)..complete a work in (given) no of days...after (some no) of days ..some more(given no) men join them,they will finish the work in how many days?

If a car travels from A to B at a speed of 'x' kmph & travels back from B to A at 4/5th the speed,then the total distance travelled in terms of percentage of x is?

- (a)2400km
- (b)3600km
- (c)..
- (d)...

A question on malloc

```
int *p;
p=malloc(sizeof(int)*5);
if malloc returned the address 1000,the value of p+1 is
```

- (a)1002
- (b)1004
- (c)...
- (d).....

cascade amplifier is:

- (a)a common emitter stage followed by a common base stage
- (b)a common base followed by emitter follower
- (c)...
- (d)a common base stage followed by a common emitter stage

A network has 7 nodes & 5 independent loops,the no of branches=?

- (a)11
- (b)14
- (c)..
- (d)...

Many nodes transmit at the same timecollision occurs...retransmit.....what is this called?

- (a)
- (b)
- (c)collision.....enforcement
- (d)

If the characteristic impedance of a transmission line is 50ohms,at 1 end the impedance is +j50 ohms,the VSWR =?

- (a)0
- (b)infinity
- (c)+j
- (d)+1

Minimum no of NAND gates required to realize the boolean eqn: Z=ABC?

- (a) 4
- (b) 6
- (c)..
- (d)....

It has been found that mercury poisoning due to industrial pollution causes Hobson's disease. An island R is completely away from modern industry.People here follow subsistence agriculture method. A high % of people in Island R are affected by Hobsons disease.From the above paragraph, we can deduce

- (i) there must be another reason for Hobson's disease other than mercury posoning
- (ii) mercury poisoning can be due to other reasons than industrial pollution
- (iii)....

- (a) i only
- (b)ii only
- (c) i ,ii, iii
- (d) i and ii

```
fun()
{
    int counter=1;
    counter++;
    if(counter>10)
    fun();
}...(some program similar to this one). the program will be executed infinitely--ans
```

Which of these are legal?

- i.a pointer to a function
- ii.pointer to a structure
- iii.pointer to union

- (a)i only
- (b)i and ii
- (c) i,ii &iii
- (d)ii &iii

Union..

```
{
    int ivalue;
    char lvalue;
    struct boo
    {
        int ivalue;
        char lvalue;
    }databook;
};
```

- (a)error as struct within union is not allowed
- (b)error as struct members have same name as union members
- (c)...
- (d).....

How many stacks are there in DOS?

- (a)1 stack
- (b)2 stacks
- (c)3 stacks
- (d)...

What is the o/p?

```
main()
{
    char arr[5]={'a','a','b','c','d','e'};
    printf("%s,arr);
}
```

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