Honeywell Placement Paper

1 key constraints are .....for...

(a)secondary key

(b)primary key

(c)foreign key

(d)...

2 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)...

3 TRAP is _____interrupt

(a)synchronus

(b)asynchronus

(c)hardware

(d)...

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

(a)0020

(b)0024

(c)0028

(d)none of the above

5 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)...

6 Worst case algorithm is meant for the case

(a)when sometimes favourable

(b)when worst unfavourable

(c)...

(d)...

7 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

8 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

9 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)...

10 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?

11 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?

12 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)..

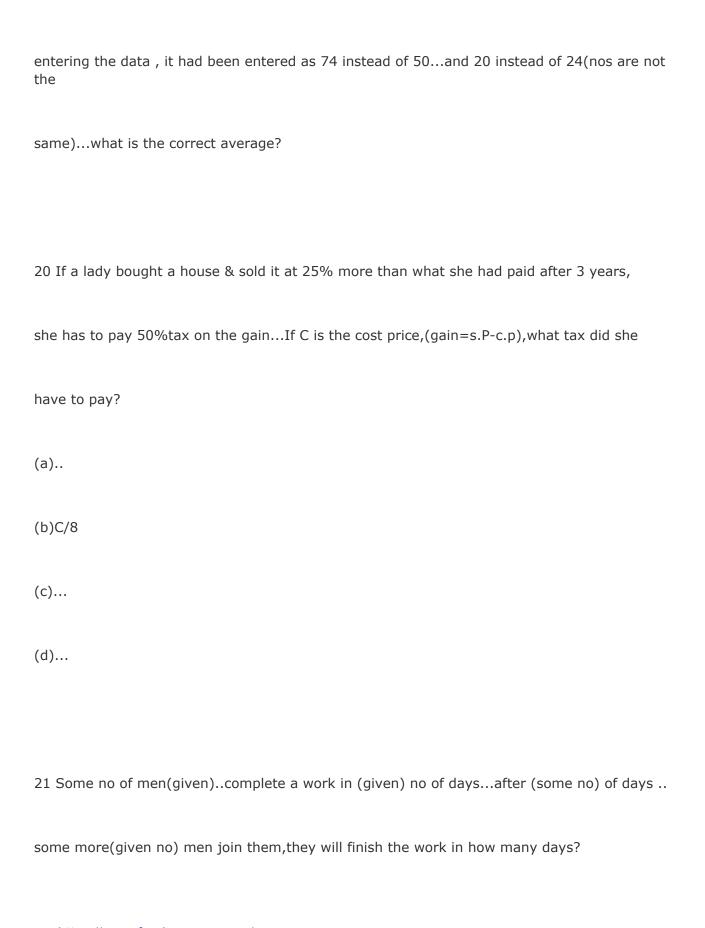13 #define ADD(X,Y) X+Y

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

14 Which of the following is illegal

(a)void v;

(b)void *v;

(c)void **v;

(d)all are legal

15 #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

16 main()

{

int counter=1;

for(;;)

{

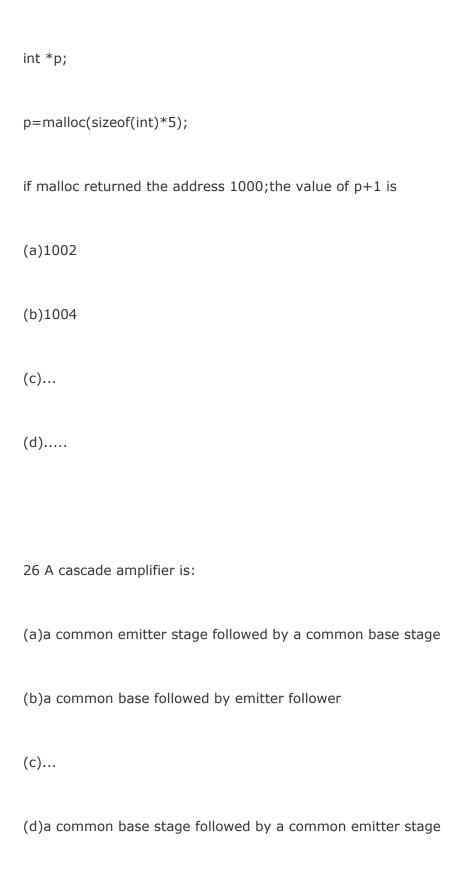counter++;

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

17) 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)...

18 The average temperature for monday,wednesday,thursday was 46 o C.the average temperature

for tuesday,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....

19 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?

20 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)...

21 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?

22 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)...

(23)-(24)2 similar problems on a race..i.e.one travels at some speed gives a lead of some time or

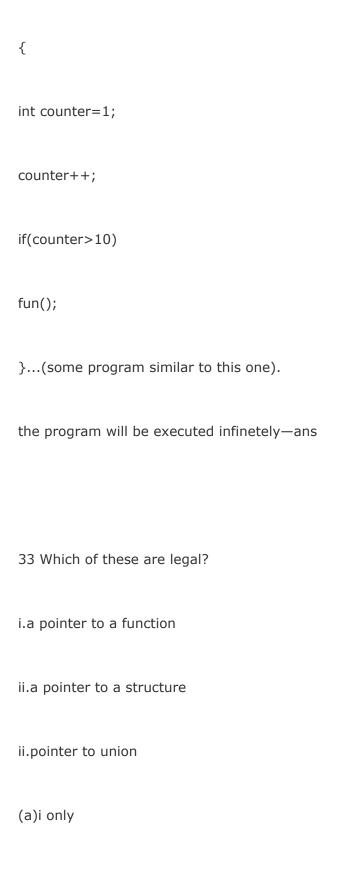Length to the other....kind of problem..

25 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).....

26 A 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

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

(a)11

(b)14

(c)..

(d)...

28 Many nodes transmit at the same time .....collision occurs...retransmit.....what is this called?

(a)

(b)

(c)collision.....enforcement

(d)

29 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

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

(a)4

(b)6

(c)..

(d)....

31 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 candeduce

(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

Honeywell Technical Questions

32 fun()

{

int counter=1;

counter++;

if(counter>10)

fun();

}...(some program similar to this one).

the program will be executed infinetely—ans

33 Which of these are legal?

i.a pointer to a function

ii.a pointer to a structure

ii.pointer to union

(a)i only

(b)i and ii

(c)i,ii &iii

(d)ii &iii

34 Union..

```c
{

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).....

35 How many stacks are there in DOS?

(a)1 stack

(b)2 stacks

(c)3 stacks

(d)...

36 What is the o/p?

```
main()

{

char arr[5]={'a','a','b','c','d','e'};

printf("%s",arr);

}
```

1) Binary search tree is used in

a) sorting b)searching c)indexing d)all the above

2) Given a tree..write the preorder traversal

3) Given an infix expression..write its postfix

4) First general purpose microprocessor

a) 2002 b)4004 c)8080 d)8085

5) What is 8253

6) _____flag is not used in 8085 jump instructions

7) SNMP is used in which layer

8) Banker's algorithm is used for

9) Belady's anomaly is related to____

10) Which of the following is non-preemptive

a) FIFO b)SJF c)Round robin d)all the above

11)A relation in 3NF is in_____

12) A question on serializability

13) One SQL query

14) Functional dependency one question

15) The first general purpose microprocessor is _____-bit

16) In a three byte instruction the second byte indicates_____

17) Average case analysis for partition exchange sort

18) How the receiver knows to what service the packet to be forwarded?

19) Given a binary sign magnitude no:..write its decimal

20) The order in which data is transferred frm magnetic disk

disk->main mem->cache->h/w register

21) In which layer of the network datastructure format change is done

22) Which of the following allow parallel & serial connections

a)DHCP b)PPP c)IPX d)all the above

23) Given some IP addresses...identify which one is IPv6?

24) Open addressing and chaining is used in

a)sorting b)indexing c)collision-resolution d)none of the above

25) Storage space requirement for diff: sorts in the descending order

26) Which scheduling policy is used in unix..

27) In database which mechanism is suitable for recovery?

a)checkpointing b)indexing... c) d)

28) Which of the following is not correct?

a)arrays consume less space

b)linked lists are more complex

c)linked lists use less space

d)

29)which of the following is not correct?

a)main does not have arguments

b)main can have command line arguments

c)main have variable arguments

30) Which of the following is not correct?

a)function can call itself

b)function can have no return type

c)function cannot have multiple return statements

d)function can have arguments

31) When an interrupt is called control is given to..

a)interrupt vector table

b)interrupt service routine

c)stack

32) Which of the following is not a synchronization tool

a)semaphore b)mutex c)mutual exclusion d)message passing

33) Given a graph write the BFS for it

34) How can u increase ports of a microprocessor?

a)8255 b)8259 c)8253 d)8251

35) What is 8259?

36) Which of the following maintains a constant time(best,worst,average)?

a)searching b)sorting c)indexing d)none

37) In a database a table is stored not fully..it is an example of

a)views b)logical data independence c)abstraction d)all the above

38) The time CPU takes to complete the execution of processes_____

39) The minimum length of TCP/IP header and IP datagram header

40) Process spawning in OS is_____

41) The topology that uses a central hub is____