Honeywell Technical Paper 1

1.	key constraints arefor (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 isinterrupt (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 transistorsans (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

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(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)..

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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
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14. Which of the following is illegal

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(a)void v;
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- (b)void *v;
- (c)void **v;
- (d)all are legal
- 15.#define int INTEGER/*line1*/
 #define INTEGER int/*line 2*/
 main()

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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
   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
```

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

(d)3....

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 gainIf 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 daysafter (some no) of dayssome 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.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)
 24. 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
25.A network has 7 nodes & 5 independent loops, the no of branches=? (a)11 (b)14 (c) (d)
26.Many nodes transmit at the same timecollision occursretransmitwhat is this called? (a) (b) (c)collisionenforcement (d)
27.If the characteristic impedance of a transmission line is 50ohms, at 1 end the impedance is +j50

ohms,the VSWR =?

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(a)0
   (b)infinity
   (c)+j
   (d)+1
28. Minimum no of NAND gates required to realize the boolean eqn: Z=ABC?
   (a) 4
   (b) 6
   (c)..
   (d)....
29. 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
30.fun()
   int counter=1;
   counter++;
   if(counter>10)
   fun();
   \}...(some program similar to this one). the program will be executed infinetely--ans
31. 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
32 Union
     int ivalue;
     char lvalue;
     struct boo
         int ivalue;
         char lvalue;
       }databook;
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};
  (a)error as struct within union is not allowed
  (b)error as struct members have same name as union members
  (c)...
  (d).....

33. How many stacks are there in DOS?
      (a)1 stack
      (b)2 stacks
      (c)3 stacks
      (d)...

34. What is the o/p?
      main()
      {
      char arr[5]={'a','a','b','c','d','e'};
      printf("%s",arr);
}
```