```
>^M
          THIS IS TI 1999 jadavpur for ECE students.for cs another
paper is ^M
>given^M
>^M
>1.two transistors are connected Vbe is 0.7volts .this is simple
>transistor is diode equivalent. & asked the o/p across the 2 nd
transistor.^M
>2.simple k map ans is Bbar.^M
>3.^M
>^M
                               Emitter^M
>---R-----transistorbase| --^M
>
                                   collector^M
>
              in above capacitor is connected parallel with resistance
^M
>r.capacitor is not shown^M
>
             in fig.capacitor is used for in this ckt:^M
>^M
>^M
            ans:a.speedupb.active bypass c.decoupling^M
> 4.^M
>^M
  ----R-----I-----o/p^M
           |____R___ |^M
>
                             in above r is resistence. I is cmos
inverter.^M
                            then ckt is used for: ^M
>^M
>^M
>
                             a.schmitt trigger b.latch c.inverter ^
Μ
>d.amplifier^M
>^M
>^M
       5.simple amplifier ckt openloop gain of amplifier is 4.V in ^M
>=1v.asked for V x?^M
      amplifdier + is connected to base. - is connected to i/p in
between ^M
>5k is connected.^M
      from o/p feedback connected to - of amplifier with 15k.this is
ckt.^M
>^M
```

```
>^M
      6.resistence inductot cap are serially connected to ac voltage
>
5
^M
>volts.voltage across^M
      inductor is given.R I C values are given & asked for^M
      voltages across resistence & capacitor.^M
>
>
>
             ____^M
| ____^M
>
       ---R-----^M
                              |---^M
                       R1 is for wjhat i mean what is the purpose of
>
             R1
R1.^M
             | ^M
>
>^M
>
             ground^M
>^M
>^M
>
      8.asked for Vo at the o/p.it is like simple cmos realization tha
is n ^M
>block is above^M
      & p block is below. Vdd is 3 volts at supply. V threshold 5
     9.2 d ffs are connected in asyncro manner .clock 10 MEGAHZ.gate
delay ^M
>is 1 nanosec.^M
     A B are the two given D FFs.asked for AB output is:^M
>^M
>^M
     a.updown^M
>
     b.up c. updown glitching like that (take care abt glitching
word) ^M
>^M
>
     10.^M
>^M
>^M
      -----| subtractor|----o/p^M
>
        |____HPF____|^M
                        >^M
                     the ckt is LPF , HPF or APF ?^M
>
>^M
   11.in a queue at the no of elements removed is proportional to no
of ^M
>elements in^M
> the queue.then no of elements in the queue:^M
    a.increases decreases exp or linearly(so these are the 4 options
```

```
given ^M
>choose 1 option)^M
    12. with 2 i/p AND gates u have to form a 8 i/p AND gate. which is
the ^M
>fastest in the^M
   following implementations. ^M
   ans we think ((AB)(CD))((EF)(GH))^M
    13.with howmany 2:1 MUX u can for 8:1 MUX.answer is 7.^M
   14. there are n states then ffs used are log n.^M
>
    15.cube each side has r units resistence then the resistence acros
>
S
^M
>diagonal of cube.^M
   16.op amp connections asked for o/p^M
>
   the answer is (1+1/n)(v^2-v^1).check it out.practise this type of
model.^M
   17.^M
>
>
             _____supply^M
                    ____| ^M
         Ιi
                       > _____Vo^M
>
                       > ____ Vo^M
>
>
                       | ^M
                       | ^M
>
>
                        R
                                | ^M
>
                               | Io^M
>
                        ground.^M
>^M
>^M
>^M
>^M
>
    asked for Io/Ii=? transistor gain is beta.^M
>^M
>^M
    a.(1+beta) square b.1+beta c. beta^M
>^M
>^M
>
    18.y=kxsquare. this is transfer function of a block with i/p x &
o/p ^M
>y.if i/p is^M
    sum of a & b then o/p is :--^M
>^M
    a. AM b.FM c. PM^M
>
    19.^M
>
>
                 -----| ^M
                                                          | ^M
            __R__|_OPAMP_____
                 ---^M
                 | ^M
```

pround.^M
v in = -Ez then o/p Vo =?^M
answer is squareroot of -Ez.multiplier i/ps are a & b

then ^M
>its o/p^M
is a.b;^M

TIL paper

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- 1.Depreciation: deflation, depression, devaluation, fall, slump
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- 6 JWXUVST OPSET ANS; O
- 7. ARHXYTDTWST NPTKR ANS; P
- 8.FMBIPZVIEV IRYOU
- 9. NZI YCX KWF JFVMY ANS; V

- 10. AASASPASPKA RQTSU ANS; S
- 11. AECPS TRUE ANS; U
- 12. BBPRDDLNFFIK HQJIK ANS'H
- 13 AZEXIVMT RONSO ANS: Q
- 14. ABDGKP LIWUX ANS:U
- 15. BCDAEGHIFJLMN LKNMO ANS: K
- 16. XWEFGVUHIJK PNSRT ANS: T
- 17. ODJTOPQNOERT QOUVW ANS; O
- 18. PRNUUPEJRBB HVUNE ANS: E
- 19.LULMGMNFNPS ONQPS ANS:P

QUESTIONS ARE NOT IN SEQUENCE.

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is

24dollars. then total number of persons

Ans: 15

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fast running - k hours - c

Ans: nA+kC

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Ans: HInt: four digit number first number must be one.

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Ans: multiply A by 2

24. P- Total number of compoentns

Q= defective number of compoentns

%of non defective equals to p-q/p*100

25. Cost of article x, first discount is y% of cost, second discount is z% $\,$

of cost . The price of x is

Ans: x(1-y/100)(1-z/100)

26.Prime number a) 119 b) 115 c) 127 d) none Ans: C

```
27. A/B = C; C>D then
```

Ans: A is always greater than D

28.B>Cand A<Cwhich of the following is larger

Ans: (A+B)C

29. H hours - S salary; xhours - Medical leave, then salary/hr = ?

Ans: s/H-x

30.(1/60f 596) / (0.695) = 142

31.All dogs are cats

All rats are dogs

Ans:all rats are cats

32.35-30+4/7-5+1 = ?

Ans: 3

33.10995 + 95 = ?

Ans: 11090

34.Salary 'S' per month,1 type of tax is xRs. second type of tax is y Rs $\,$

then % of take home.

Ans: s-(x+y)/s * 100

35.All physicians are browns

All balancians are physicians

Ans: not know.

36. B>A then which expression will be highest value

Ans: AB

37. K,L -- Men ; X, Y -> Ans:kX + Ly

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42. Add three digits and two digits numbers the first digit is

Ans:1 (four digit number starting with one)

43. 0.512 * large number = ?

Ans: divide the given number by 2

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Ans:50%

45.6.29% of 2.8 = 0.18

46.0.398*456=181.49

47.0 < x < 1 which is greater

a) 1/x**2 b) 1/x c) x d) x**2

Ans: a

48.c = a/b; a-1 = c, what is the relation between a and b

Ans: b = a/a-1

 $49. \text{The sum of 7 consecutive odd numbers interms with 27 as fourth numbers$

Ans:189 (question not clear)

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BEST OF LUCK. If you want any help always welcome.

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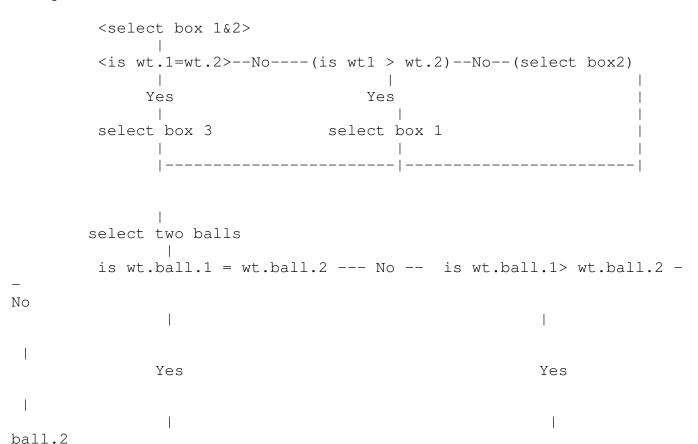
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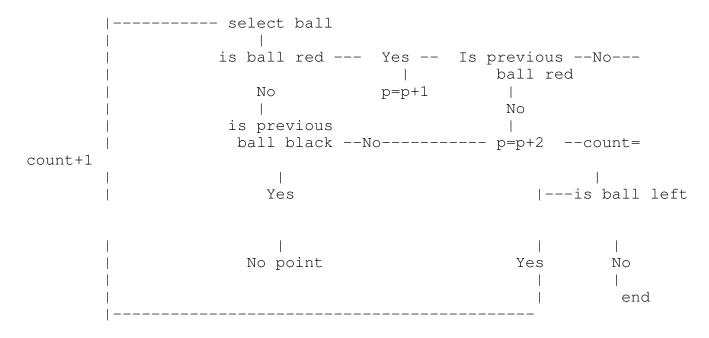


ball.3 is ball.1 is i s heaviest heaviest

heavist

so there will be some blank in this flow chart and u have to fill up the blanck with correct option.

there are red and black balls. if ball is red then one point. if ball is black and previous ball is red then two points. For winning u have to get seven points. No point for same color consecutive balls.



- Q3)

 Classify objects in class A, class B and scrap. for classfing u
 have to do diffrent test such as weight, material etc. and Flow char for this gues. will be there along with some blanks.
- Q4)
 There is production process in which action depend on temprature and pressure. and there are temp. and press. controls.

- Q5)
 find max. and min. of the 12 nos. there will array and u have t
 o
 arrange the numbers in assending/ descending order and find out max.
 and
 min.
- Q6)
 diffrent age group are given and also diffrent salary slabs are given. so depending on the salary group as well as his group u have to fill the person in particular class. (ques. is not in exact form.)
 one ques. do not remember.

Vikash & Sachin IIT BOMBAY.

TIL paper

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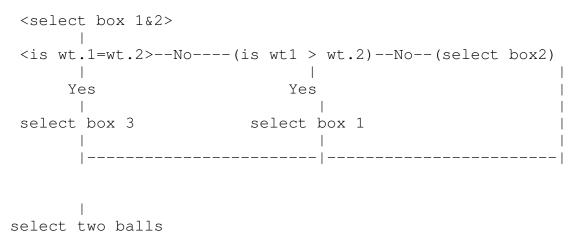
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Yes

Yes

ball.2

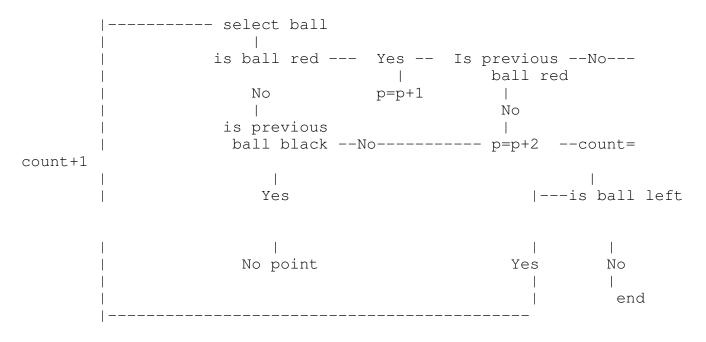
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min.

Q6)
diffrent age group are given and also diffrent salary slabs are given. so depending on the salary group as well as his group u have to fill the person in particular class. (ques. is not in exact form.)
one ques. do not remember.

Vikash & Sachin IIT BOMBAY.

TATA_IBM few questions extra. 1) int i=10;printf("%d%d%d",i,i++,++i); ans: compiler dependent 2) printf("Enter two values a and b:"): scanf("%d%d",a,b); printf("%d+%d=%d",a,b,a+b); ans:core dumped 3) Question on WM_SIZE ans:WM_SIZE 4) when destroy window what message would disply ans:WM_DESTROY 5) MS Windows 3.1 about multitasking ans:nonpreemptive 6) windows 3.1 is ans:application 7) about switch switch statement ans:16,21

```
8) question paper the first question ans is
ans:can't be compiled
9) about send messages and post messages
ans: c
10) what is the command to intiate the windows
ans:WinMain
TATA_IBM few questions extra.
1) int i=10;
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ans: compiler dependent
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8) question paper the first question ans is
ans:can't be compiled
9) about send messages and post messages
10) what is the command to intiate the windows
ans:WinMain
1.const char *
char * const
What is the differnce between the above tow?.
2. In Unix inter process communication take place using?.
3. What are the files in /etc directory?.
4. About i-node numbers
5. Max relaxable permisssion value with out giving write permission
to others?.
6. About ln(linking)
7. A question on until
until (who | grep mary)
do
sleep(60)
done
8. Linking across directories?.
9.process id for kernell process
10.very first process created by kernell
```

- 11. function to repaint a window immediately?.
- 12. Function entry for DLL in win3.1
- 13.win 3.1 is a
- 14.win 3.1 supports which type of multi tasking?.
- 15. Message displayed when a window is destroyed
- 6.About fork()?
- 17. About send message and post message
- 18. Message to limit the size of window
- 9.System call executable binary file intoa process
- 20. About GDI object?.
- 21.API used to hide window
 - 22. Initialize contents of a dialog?.