PCS

// This is another paper, we don't have this paper as such, I am giving
// over all idea of paper with some question...

// There r 5 sections; 5 questions in section1, 5 in section 2
// 8 marks in english (section 3); section 4 TRue or False type

/ *
Section1:

5 questions.. (Mutiple choices)

i.e select any one of the following for 5 questions;;

A) only 1 is sufficent
B) only 2 is sufficent
C) both nessary
D) both are insufficent
E) either is sufficent

1. .... (Don't know)

2. one composition contains... 5/4 L 6/14 L....

(Ans. both r insufficent)

3. x fabric.... 6.50 per meter , 25% wholesale...

(Ans: both r required)

4 & 5 don't know....

/ * /

Section 2 (Analitical...)

1. Average 3years 45,000, 1st 1.5 times, 2nd 2.5 times..

(Calculate in this way... (x+1.5x+2.5x)/3 = 45000 i.e 5x/3 = 45000)
then calculate required value...)

2. Three vehecle speed ratio 1:2:3 & time ratio 3:2:1...
Distance ratio ??

(Ans: 3:4:3.. check once)

3. some km/hr problem...

(Ans: 150 km/hr)

4 & 5 don't know....

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Section 3 (English - 8 marks.. mutiple choice..)

Don' t know...

/*****************************/

Section 4 (True or Flase type..)

1. Square contains all angles , one object does not contain angles;

//////////////PATNI NEW OVER at jadavpur 99////////////
_____
1.what is the angle between teo hands of a clock when time is 8-30
ans:75(appro
2.a student is ranked 13th from right and 8th from left.how many are
there(similer)
3.a,b,c,d,e,f are arranged in a circle b is to right of c and so on(rs
aggrewal)
4.chain rule(work&time)
5.puzzle test.some data is given and he asked three qustions below.based on
data
we have to answer.
6.six questions on venn diagrams.
7.5 years ago sum of ages of father and son ans:40,10
8.assertion and reasoning 1.clouds 2.capital city of dweloped corentira ans
for
both is :a
9.man walks east & from turns to right & from to left &then 45degrees to
right.in which direction he went ans:north west
10.aa-b-bb-aaa-
11.96,85,....(a series with diff 11),3,15,45,....,total 3 questions are
given on
series
12.a student got 70% in one subject,80% in other.to get overall 75% how much
he
should get in third subject.
12.a news pwper must have a.news b.advertizements 3.editor 4.date 5.paper
13.if clouds are air, air are water and so on where birds fly?
14.press,cinema,tv ans:mass media
15.3 qustions on rs aggrewal relations i.e first few chapters of
aggrewal(english)
16.a man showed to a woman sitting in a pack & told to his friend.she is
the
daughter of my grand mother only son ans:daughter
group disscussion topic
1.if you become muncipal corporater what steps you take to develop your
area.
2.if you become administrative officer of this university what steps you
take to
improve standards.
3.tell what are the seven problems in calcutta and solutions to problems?
4.abortion is legal or illegal
the following two topics are omportant they asked the same topics to many
students by changing the numbers

5.in 2050 a nuclear disaster has ocurred and 50 persons are saved.which are of
age above 15.of them 20 know 6 subjects and you have to choose only 3 of six
subjects so that resticted resorces can used for future
subjects are 1.enggineering 2.medical 3.law 4.social sciences 5.life sciences
6.----
6.in space ship 5men are going1.docter,drug asdditive 2.lady lawer has done crime 3.teacher emotinally imbalanced
4.18.18 year old aeruonautical engineer 5. noble lauraut .suddenly some thing
happend
and oxygen is avaliable to only three people to use which of three you choose
interview
here they asked only personal.relating to what you have written in sychometric
test
and some puzzles
one puzzle is 10 machines are there only one is defective iteams are coming out
how tdo you find out which is defective
second: *
* * how do you reverse this in two transitions
* * *
* * * *--------------------------------- two transistors are connected Vbe is 0.7volts .this is sin ckt.one
transistor is diode equivalent. & asked the o/p across the 2 nd transistor.
2.simple k map ans is Bbar.
3.

Emitter
---R-------transistorbase l --
 l ---
collector
in above capacitor is connected parallel with resistance r.capacitor is not shown
in fig.capacitor is used for in this ckt:

ans:a.spedupb.active bypass c.decoupling
4.

-----R------l----------o/p
 l___R____ l
in above r is resistence.l is cmos inverter.
then ckt is used for:

a.schmitt trigger b.latch c.inverter d.amplifier

5.simple amplifier ckt openloop gain of amplifier is 4.V in =1v.asked for V x?
amplifdier + is connected to base. - is connected to i/p in between 5k is

amplifier. + is connected to base. - is connected to i/p in between ckt is connected.
from o/p feedback connected to - of amplifier with 15k.this is ckt.

6.resistence inductot cap are serially connected to ac voltage 5 volts.voltage across
inductor is given.R l C values are given & asked for
voltages across resistence & capacitor.
7.
```
___ R_____
| |
---R------OPAMP ----------
|---
R1 R1 is for wjhat i mean what is the purpose of R1.
|

ground
```

8.asked for Vo at the o/p.it is like simple cmos realization that is n block is above
& p block is below.Vdd is 3 volts at supply.V threshold 5 volts.
9.2 d ffs are connected in asyncro manner .clock 10 MEGAHZ.gate delay is 1 nanosec.
A B are the two given D FFs.asked for AB output is:

a.updown
b.up c. updown glitching like that (take care abt glitching word)

10.

```
----------------| subtractor |---------o/p
|___HPF____|
```

the ckt is LPF ,HPF or APF ?

11.in a queue at the no of elements removed is proportional to no of elements in
the queue.then no of elements in the queue:
a.increases decreases exp or linearly(so these are the 4 options given choose
1 option)
12.with 2 i/p AND gates u have to form a 8 i/p AND gate.which is the fastest in the
following implementations.
ans we think ((AB)(CD))((EF)(GH))
13.with howmany 2:1 MUX u can for 8:1 MUX.answer is 7.
14. there are n states then ffs used are log n.
15.cube each side has r units resistance then the resistance across diagonal of cube.
16.op amp connections asked for o/p
the answer is (1+1/n)(v2-v1).check it out.practise this type of model.
17.
```
_____ supply
```

```
--- | __ ___ |
Ii >_____ | ___ Tranistot
> _____Vo
 |
 |
R |
 | | Io
ground.
```

asked for Io/Ii=? transistor gain is beta.

a.(1+beta)square b.1+beta c. beta

18.y=kxsquare. this is transfer function of a block with i/p x & o/p y.if i/p
is
sum of a & b then o/p is :--

a. AM b.FM c. PM
19.
```
------MULTIPLIER--- |
| |
_____R__ | __OPAMP_____Vo
---
|
ground.
```
v in = -Ez then o/p Vo =?
answer is squareroot of -Ez.multiplier i/ps are a & b then its
o/p
is a.b;

_____

1.1 True
1.2 False
1.3 True