

## POLARIS Paper

Technical Section: 40qns in 30min

It covered basics of almost all ece subjects like abt transistors, digital & microprocessors, communication, microwave etc...but qns were only basics nothing in deep... all qns had choices...

1. qn abt transistor..basic workin
2. boolean expn was given for simplification-simple
3. How many flags does 8085 have? (ans-5)
4. which of the following are universal gates?  
(ans-nand,nor)
5. whts the frequency range of mobile communication?
6. the resolution of picture in tv depends on..  
a. no: of lines scanned  
b. video detector o/p  
and 2 more choices were given...
7. qn on stability of FET
8. wht is the modulation used to transmit sound in tv signal  
a. VSB  
b. FM  
and 2 more choices were there...
9. wht is double integration of a unit step signal?  
a. ramp signal  
b. parabola  
dont remember the other 2...(ans-b)
10. qn abt spectral density-basic
11. qn abt basics of finite fourier transform(FFT)..it was something abt 8pt FFT...don't remember exactly...but if u know the definition u can do...

I am not able 2 memorize the rest frenz...but there were few more qns on transistors...

Aptitude Section: 30qns in 30min...all qns had choices...

1. completing Series of alphabets was given...
2. A guy walks @ 4kmph from a point..After 4hrs a cyclist starts from the same point @ 10kmph .... At wht distance will they meet from the starting point?  
the qn was almost like this...don remember exact wordings...
3. x% of people have tea, y% have coffee, z no: of people have both...find the total no: of people...  
soln: easy..have to use  $n(A \cup B) = n(A) + n(B) - n(A \cap B)$ ..  
B)..  
4. Figure given & we have to find out the no: of 4sided figures in it...little complicated..bcoz less time...
5. Complete the series....  
1,4,9,25,... (choices- 47,49,64,none)
6. Complete series...

7. Analytical qn

"failures are stepping stones to success" this means...

- a. all success are preceded by failures
- b. success consists of failures
- c. failures can lead to success
- d. none..

8. abt matrices..

which of the following don't have inverse?

u have to find for which matrix  $|A|=0$ ...time consuming...

9. another abt matrices...

10. there was 1 big sqr which had 16 sqrs in it..4 in

a row & column.. each sqr had a no: in it.. except one sqr... had 2 find the missing no:...i dont remember the nos...

11. 4 sentences given..& 4 choices of word

given...have to choose 1 word that suits all the 4 sentences...

\*the police are \_\_\_\_ about the missing boy in the forest.

\* the detective was \_\_\_\_ her face for marks.

and 2 more sentences were there...

choices(investigating, searching....).

ans:investigating.

12. opposites... sluggish x rapid

13. rising x setting

14. meanings...easy

15. meanings...

16. hcf of 2 nos...1024 & 1214...don remember nos

exactly..like in rs aggarwal...

3 qns fill in the blanks..V V simple..based on grammar