

The test took place in college on 1 April & it consisted of following topics:

Quantitative Aptitude	30 questions
Verbal	30 questions
Logical Reasoning	30 questions

There were 3 sets of papers & everything was professionally managed. I remember only a very few questions.

Quantitative

- * Profit & Loss
- * Number Systems
- * Linear Equations
- * Permutations & Combinations
- * Time speed distance
- * Time & Work
- * Mixtures & Allegations

All are really simple & basic problems. Concentrate more on fundamentals?.

Few questions are:

1. In a kilometer race between A and B, A beats B by 9 seconds or 36 meter. Then what is the time taken by B to finish the race?

Sol: When A has just completed the race it means B is behind by 36mts or completed 966mts. And when a has taken T seconds to complete the race B needs another 9 secs to complete the race; that means B runs another 36mts in 4sec so his speed is $36/9 = 4\text{mts/sec}$

So travels 1000mts or 1km in $1000/(36/9)=250\text{secs}(\text{time}=\text{dist}/\text{speed})$

So A completes race in $250-9\text{sec}=241\text{secs}$.

2. If 4apples and 6oranges cost 13/- and 2apples & 4oranges cost 7/- find

cost of one apple and one orange?

Sol: subtract 2nd eqn from 1st then we have $2a-2o=6 \Rightarrow 1\text{apple and } 1\text{orange}$
cost 3/.

3. If a person travels for P km in t hrs and then increases his speed by x km/hr find his new speed?

a) $(p/t)+x$ b) $pt+x$ c) $p/x+t$ d) pt/x

ans:a

4,5,6 questions based on statistics from a bar graph.

7. If a kite is at a height of 50mts from ground and the angle of inclination from a point on ground is 60degree then find length of the kite sting?

Sol: based on trigonometry heights and distances: $\sin 60 = \text{height of kite} / \text{length of string (altitude/hypotenuse)}$

ans: $100 / (\text{root of } 3)$.

8. If avg. of 6 nos. is 8 and later 2 new nos are added such that the avg of the present 8 nos is 6 then what is the avg of newly added two nos?

Sol: $\text{avg} = \text{total sum of values} / \text{no of objects or observation}$.

? $8 = \text{total sum of values of } 6 \text{ nos} / 6$

? $\text{total sum of values of } 6 \text{ nos} = 6 * 8 = 48$

now when 2 new nos are added applying same formula $6 = \text{total sum of values of } 8 \text{ nos} / 8$

? $\text{total sum of values of } 8 \text{ nos} = 48$ so the value has not changed which

means the sum of added 2 nos is zero so $\text{avg} = \text{zero}/2 = \text{zero}$.

9. What % of $4/7$ is $4/5$?

Sol: $\{(4/5)/(4/7)\} * 100 =$

ans = 140%

10. By what % should a person sell an article so as to gain a profit of 24% even after giving a discount of 10 %?

Sol) the easiest way to solve such problems is by assuming the cost price as 100rs

So to get a profit of 24% means to sell at $100 + 24 = 124/-$

So suppose he sold it at 10% discount initially he sells at 90rs
so there is a difference of 34/-.

11. One problem on Arithmetic progression.

12. One on mean.

13. Matrix addition?

14. Find the determinant of a 3×3 matrix?

15. A red light glows every 10sec, yellow every 15sec and red every 18sec.
find the number of times all three glow together from 8:00AM to 9:00AM
(including both times)?

Sol : LCM of 10,15,18 = 90

So every 90 seconds all three glow together so in one hour there are 3600 secs

So $3600/90=40$ times but answer is 41 because they glow at 0th second that is at 8 Am since both times are included.

16. If a man travels at 30km/hr is behind a car by 40mtrs. In 20sec if he leads the car by 20mts then what is speed of car?

17. If age of a person is x and his mothers age is 34. then after how many years will the mothers age be twice of the son?

18. One more age problem.

Verbal test:

30 questions

Meanings 3 questions:

Faux Pas : means a blunder (spelled as fau pa)

Sanguine

Arranging sentences in order(3 or 4 questions)

Finding errors in a sentence(3 Qs)

Reading passage (5 questions):

easy to score atleast 4 marks out of 5 by reading questions and coming to passage to search answer also less time consuming. Something like a chemistry related passage.

Also analogies

Reasoning

Based on venn diagram 3 questions

1) Which diagram best represents musician, violinist and instrumentalist?

2) polygon, quadrilateral and rhombus?

3) four questions on figure matrices?

3 questions based on giving 3 figures and then we are required to find the 4th figure which comes next in the logical sequence?

Next day HR was conducted & no technical was asked? She was very kind & I was asked to talk about myself, academics, achievements extra curricular stuff etc? Its a real professional environment and I wish more people to get through.

2nd

Eligibilities:

Should have consistently scored atleast 60% in 10th, intermediate and BTECH all sems.

Should not have any history of fails in any class or semester.

Process of Selection:

1) Written test on quantitative aptitude, reasoning and English each section consists of 30 questions => total 90 questions in 90 minutes.

No negative marks 90 marks.

There is sectional cutoff so you need to score in all sections properly

The sectional cutoff was around 14-16.

Note: there are 3 sets of papers almost same standard.

2) Technical interview may or may not have group discussion

3) HR interview

Written Test:

Aptitude:

1. In a kilometer race between A and B, A beats B by 9 seconds or 36 meter. Then what is the time taken by B to finish the race.

Sol: When A has just completed the race it means B is behind by 36mts or completed 966mts. And when a has taken T seconds to complete the race B needs another 9 secs to complete the race; that means B runs another 36mts in 4sec so his speed is $36/9 = 4\text{mts/sec}$

So travels 1000mts or 1km in $1000/(36/9)=250\text{secs}(\text{time}=\text{dist}/\text{speed})$
So A completes race in $250-9\text{sec}=241\text{secs}$.

2. If 4apples and 6oranges cost 13/- and 2apples & 4oranges cost 7/- find cost of one apple and one orange.

Sol: subtract 2nd eqn from 1st then we have $2a-2o=6 \Rightarrow 1\text{apple and } 1\text{orange}$
cost 3/-

3. If a person travels for P km in t hrs and then increases his

speed by x
km/hr find his new speed.

a) $(p/t)+x$ b) $pt+x$ c) $p/x+t$ d) pt/x ans:a

4,5,6 questions based on statistics from a bar graph.

7. If a kite is at a height of 50mts from ground and the angle of inclination from a point on ground is 60degree then find length of the kite sting.

Sol: based on trigonometry heights and distances: $\sin 60 = \text{height of kite} / \text{length of string (altitude/hypotenuse)}$.

ans: $100 / (\text{root of } 3)$.

8. If avg. of 6 nos. is 8 and later 2 new nos. are added such that the avg of the present 8 nos is 6 then what is the avg of newly added two nos.

Sol:

avg = total sum of values / no of objects or observation

? $8 = \text{total sum of values of 6 nos} / 6$

? total sum of values of 6 nos = $6 * 8 = 48$

now when 2 new nos are added applying same formula $6 = \text{total sum of values}$

of 8 nos / 8

? total sum of values of 8 nos = 48 so the value has not changed which

means the sum of added 2 nos is zero so $\text{avg} = \text{zero}/2 = \text{zero}$ (ans)

9. What % of $4/7$ is $4/5$?

Sol: $\{(4/5)/(4/7)\} * 100 = \text{ans} = 140\%$

10. By what % should a person sell an article so as to gain a profit of 24% even after giving a discount of 10 % ?

Sol)

the easiest way to solve such problems is by assuming the cost price as

100rs

So to get a profit of 24% means to sell at $100 + 24 = 124/-$

So suppose he sold it at 10% discount initially he sells at 90rs

so there is a difference of 34/-

11. One problem on Arithmetic progression

12. One on mean

13. Matrix addition:

$$\begin{array}{r} \text{If } \begin{array}{ccc} 1 & 2 & 3 \\ 5 & 7 & 9 \\ 2 & 3 & 4 \end{array} = \begin{array}{ccc} 1 & 1 & 1 \\ 3 & 4 & 7 \\ 1 & 1 & 1 \end{array} + \begin{array}{ccc} 0 & 1 & 2 \\ 2 & 3 & 2 \\ 1 & 2 & ? \end{array} \end{array}$$

then what is the value of ?

ans: $4 - 1 = 3$

14. Find the determinant of a 3×3 matrix?

15. A red light glows every 10sec, yellow every 15sec and red

every 18sec.

find the number of times all three glow together from 8:00AM to 9:00AM

(including both times)

Sol : LCM of 10,15,18 = 90

So every 90 seconds all three glow together so in one hour there are 3600

secs

So $3600/90=40$ times but answer is 41 because they glow at 0th second that

is at 8 Am since both times are included.

16. If a man travels at 30km/hr is behind a car by 40mtrs. In 20sec if he

leads the car by 20mts then what is speed of car?

17. If age of a person is x and his mothers age is 34. then after how many

years will the mothers age be twice of the son?

18. One more age problem

19. If a person takes 5 days and 8 hrs to dig a trench ; then how many

persons will dig 3 trenches in 1 day (with each day of 8 hrs work)

20,21,22 questions based on arithmetic calculation to check ur speed in

calculating.

One question based on allegation and mixture go for error and trial method

I don't remember other 7 questions

Verbal test:

30 questions

Meanings 3 questions:

Faux Pas : means a blunder (spelled as fau pa)

Don't remember other two

Arranging sentences in order(3 or 4 questions)

Finding errors in a sentence(3 Qs)

Reading passage (5 questions): easy to score atleast 4 marks out of 5 by

reading questions and coming to passage to search answer also

less time

consuming

Also analogies

Reasoning

Based on venn diagram 3 questions

1) Which diagram best represents musician, violinist and instrumentalist?

Ans: three concentric circles the outermost circle being musician the inner circle instrumentalist and the innermost being violinist.

Because every violinist is a musician and instrumentalist but not the viceversa.

Every instrumentalist is a musician but not the viceversa

2) polygon, quadrilateral and rhombus ?

Ans : the same as above answer rhombus is the innermost then the quadrilateral and outside is the polygon .

Explanation: a polygon is a 3 or more close sided figure so even a triangle and pentagon are polygons so is a quadrilateral which is a 4

sided fig and quad includes rhombus, square, rectangle, kite, trapezium etc

Not able to remember other one

Three questions on seating arrangement .

3 questions based on giving 3 figures and then we are required to find the

4th fig which comes next in the logical sequence.

Other questions are also not that tough.

Technical Interview questions:

As I belong to ECE they asked on define modulation and types of modulation ?

Types of antenna and where is antenna placed in an aeroplane?

What is the antenna used in home for doordarshan channel ans is

broad

side array antenna ?

Data bus size of 8086 & 8085 microprocessors ?

Ram size of 8085 & 86 ?

My favourite subjects I was also asked tell me about urself ?

On C:

How to read a string ?

what about linked list ?

Also a puzzle was given to me .

q) if ur given 6 balls of all equal color and identity and 5 are equal weight find the unequal heavier ball. you are also given a common weighing balance ? find the minimum iterations required.

Ans:

first divide the balls into two groups of 3 each and weigh them then we get the heavier side .

Next take two from the heavier section and weigh them with one on each side if they are equal then the 3rd one is the heaviest. So 2 iterations are enough.

HR:

Asked on hobbies if ur hobby is collecting stamps then remember

it is
called as philately .

One who is Collecting coins is numismatist.

Be well prepared on questions 4m hobbies

What is ur father and why u didn't go to that field ?

Try making a good impression. Remember "well begun is half done"