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TATA CONSULTANCY SERVICES

Experience Certainty

TCS Recruitment Rounds

Ø Written Test

Ø tech. Interview

Ø MR (Managerial)

Ø HR Interview

WRITTEN TEST :(ONLINE TEST)

Contains three parts

- 1) Verbal (Synonyms – Antonyms - Comprehension Passages)
- 2) Quantitative Aptitude
- 3) Critical Reasoning

SECTION-1(Verbal- 30 ques. - 20 min)

- Ø Synonyms (Refer In GRE BARRONS twelfth Edition)
- Ø Antonyms (Refer In GRE BARRONS twelfth Edition (page no -126))
- Ø Passage completion

Some of the previous ques. in quant .Go through these models and try to solve them. They will provide identical models but they change the data.

SECTION: 2(QUANT- 38 ques. - 40 min)

1) If $\log 0.317=0.3332$ and $\log 0.318=0.3364$ then obtain $\log 0.319 =$

Sol: provided $\log 0.317=0.3332$ and $\log 0.318=0.3364$

Then

$$\log 0.319 = \log 0.318 + (\log 0.318 - \log 0.317)$$

$$= 0.3396$$

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2) A box of 150 packets consists of 1kg packets and 2kg packets. Total weight of box is 264kg. How many 2kg packets are there?

Sol: Given $x =$ two kg Packs

$y =$ one kg packs

$$\Rightarrow x + y = 150 \quad \text{..... Eqn 1}$$

$$\Rightarrow 2x + y = 264 \quad \text{..... Eqn 2}$$

On solving these 2 equations

$$x = 114$$

By using formula 1

$$114 + y = 150$$

$$\Rightarrow y = 36$$

\Rightarrow Number of two kg Packs = 114.

3) My flight takes off at 2am from a place at 18N 10E and landed 10 Hrs later at a place with coordinates 36N70W. What is the local time when my plane landed?

a) 6:00 am b) 6:40am c) 7:40 d) 7:00 e) 8:00

Sol: (Hint: Every one deg longitude is equal to four minutes. If west to east add time else subtract time)

Ans: 8:00

4) A Flight takes off at two A.M from northeast direction and travels for 11 hours to reach the destination, which is in northwest direction. provided the latitude and longitude of source and destination. obtain the local time of destination when the flight reaches there?

Ans: 7 AM (or) one PM

5) A moves three kms east from his starting point. He then travels five kms north. From that point he moves eight kms to the east. How far is A from his starting point?

Ans: 13 kms

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6) Aeroplane is flying at a particular angle and latitude, after a few time latitude is provided. (8 hrs later), u r asked to obtain the local time of the place.

7) An Aeroplane begins from A (SOME LATITUDE IS provided ACCORDING TO PLACE).At two AM local time to B (SOME LATITUDE). Traveling time is 10 Hours. What is the local time of B when it reaches B?

8) A plane moves from $9^{\circ}\text{N}40^{\circ}\text{E}$ to $9^{\circ}\text{N}40^{\circ}\text{W}$. If the plane begins at 10 am and takes eight hours to reach the destination, obtain the local arrival time.

Sol: Since it is moving from east to west longitude we need to add both

le, $40+40=80$

Multiply the ans by 4

$\Rightarrow 80 \times 4 = 320\text{min}$

Convert this min to hours i.e., 5hrs 33min

It takes 8hrs totally. So $8\text{hrs} - 5\text{hr } 30\text{ min} = 2\text{hr } 30\text{min}$

So the ans is $10\text{am} + 2\text{hr } 30\text{ min}$

Ans: 12:30 it will reach

9) The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent?

Sol: The time being taken to fill the bucket.

After reaching program it waits there for 10ms and back to the programmer in

20 ms. then total time to get the response is

$$20\text{ms} + 10\text{ ms} = 30\text{ms}$$

Ans: 30ms

10) A file is transferred from 1 location to a different in 'buckets'. The size of the bucket is 10 kilobytes. Eh bucket gets filled at the rate of 0.0001 kilobytes per millisecond. The transmission time from sender to receiver is 10 milliseconds per bucket. After the receipt of the bucket the receiver sends an acknowledgement that reaches sender in 100 milliseconds. Assuming no fault during transmission, write a formula to compute the time taken in seconds to successfully complete the transfer of a file of size N kilobytes.

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Ans: $(n/1000)*(n/10)*10 + (n/100)....$ (Not 100% sure)

11) A fisherman's day is rated as good if he catches nine fishes, fair if seven fishes and bad if five fishes. He catches 53 fishes in a week n had all good, fair n bad days in the week. So how many good, fair n bad days did the fisherman had in the week.

Sol:

good days means --- nine fishes so $53/9=4$ (remainder=17) if u presume five then there is no chance for bad days.

fair days means ----- seven fishes so remaining 17 --- $17/7=1$ (remainder=10) if u presume two then there is no chance for bad days.

bad days means -----5 fishes so remaining 10--- $10/5=2$ days.

$$4*9=36$$

$$7*1=7$$

$$2*5=10$$

$$36+7+10=53...$$

Ans: four good, one fair, 2bad. ===== total seven days.

$$12) x+y+z=7 \text{----- eq1}$$

$$9*x+7*y+5*z=53 \text{-----eq2}$$

Sol:

Multiply eq one by 9,

$$9*x+9*y+9*z=35 \text{ -----eq3}$$

From eq2 and eq3

$$2*y+4*z=10 \text{ -----eq4}$$

Since all x, y and z are integer i should put a integer value of y such that z sud be integer in eq 4.....And there will be 2 value y=1 or three then z = two or one from eq 4

For first y=1,z=2 then from eq1 x= 4

So $9*4+1*7+2*5=53$ Satisfied

Now for 2nd y=3 z=1 then from eq1 x=3

So $9*3+3*7+1*5=53$ satisfied

So finally there are 2 solution of this ques.

Ans:(x,y,z)=(4,1,2) and (3,3,1)...

13) Y catches five times more fishes than X. If total number of fishes caught by X and Y is 42, then number of fishes caught by X?

Sol: let no. of fish x catches= p

No. caught by y = r

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$r=5p$.

Given $r+p=42$

Then $p=7, r=35$

14) 3 companies are working independently and receiving the savings 20%, 30%, 40%. If the companies work combine, what will be their net savings?

Sol: Suppose total income is 100

So amount x is getting is 80

y is 70

z =60

Total=210

But total money is 300

$300-210=90$

So they are getting 90 rs less

90 is 30% of 300 so they r getting 30% discount

15) The ratio of incomes of C and D is 3:4.the ratio of their expenditures is 4:5.Find the ratio of their savings if the savings of C is 1 fourths of his income?

Sol: incomes: 3:4

Expenditures: 4:5

$$3x - 4y = \frac{1}{4}(3x)$$

$$12x - 16y = 3x$$

$$9x = 16y$$

$$y = \frac{9x}{16}$$

$$(3x - 4(\frac{9x}{16})) / ((4x - 5(\frac{9x}{16})))$$

Ans: 12/19

16)If A can copy 50 pages in 10 hours and A and B together can copy 70 pages in 10 hours, how much time does B takes to copy 26 pages?

Sol: A can copy 50 pages in 10 hrs.

=>A can copy five pages in 1hr. (50/10)

Now A & B can copy 70 pages in 10hrs.

Thus, B can copy 90 pages in 10 hrs. [Eqn. is $(50+x)/2=70$, where $x \rightarrow$ no. of pages B can copy in 10 hrs.]

So, B can copy nine pages in 1hr.

Therefore, to copy 26 pages B will need almost 3hrs.

Since in 3hrs B can copy 27 pages

17) A can copy 50 papers in 10 hours while both A & B can copy 70 papers in 10 hours. Then for how many hours needed for B to copy 26 papers?

ANS: 13

18) A is twice efficient than B. A and B can both work together to complete a work in seven days. Then obtain in how many days A alone can complete the work?

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ANS: 10.5 (11)

19) A finish the work in 10 days. B is 60% efficient than A. So how days does B take to finish the work?

Ans: 100/6 (4 days)

20) A finishes the work in 10 days & B in eight days individually. If A works for only six days then how many days should B work to complete A's work?

Ans: 3.2 days (4 days)

21) A man, a woman, and a child can do a piece of work in six days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the identical work?

Ans: 16

22) If 20 men take 15 days to complete a job, in how many days can 25 men finish that work?

Ans. 12 days

23) 1 fast typist kind a few matter in 2hr and a different slow typist kind the identical matter in 3hr. if both do combine in how much time they will finish.

Ans: 1hr 12min

24) A man shapes three cardboards in 50 minutes, how many kinds of cardboard does he shape in five hours?

Ans: 18cardboards

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25) A work is done by 2 people in 24 min. 1 of them can do this work a lonely in 40 min. how much time needed to do the identical work for the 2nd person.

Sol: (A+B) can do the work in = $1/24$ min.

A alone can do the identical work in = $1/40$ min.

B alone can do the identical work in = (A+B)'s – A's = $1/24 - 1/40 = 1/60$

=> B can do the identical work in = 60 min

Ans: 60 min

26) A can do a piece of work in 20 days, which B can do in 12 days. In nine days B does $\frac{3}{4}$ of the work. How many days will A take to finish the remaining work?

27) Anand finishes a work in seven days; Bittu finishes the identical job in eight days and Chandu in six days. They take turns to finish the work. Anand on the 1st day, Bittu on the 2nd and Chandu on the 3rd day and then Anand again and so on. On which day will the work get over?

A) third b) sixth c) ninth d) 7th

28) three men finish painting a wall in eight days. 4 boys do the identical job in seven days. In

how many days will two men and two boys working together paint 2 such walls of the identical size?

A) six $\frac{6}{13}$ days

B) three $\frac{3}{13}$ days

C) nine $\frac{2}{5}$ days

D) 12 $\frac{12}{13}$ days

29) what's the ans for that?

A, B and C are eight bit no's. They are as follows:

A -> one 1 0 0 0 one 0 1

B -> 0 0 one 1 0 0 one 1

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C -> 0 0 one 1 one 0 one 0 (- =minus, u=union)

Find $((A - C) \cup B) = ?$

Sol: We have to obtain $(A-C) \cup B$

To obtain $A-C$, We will obtain 2's compliment of C and then add it with A,

That will provide us $(A-C)$

2's compliment of C = 1's compliment of C + 1

$$= 11000101 + 1 = 11000110$$

$$A - C = 11000101 + 11000110$$

$$= 10001001$$

Now $(A-C) \cup B$ is .OR. Logic operation on $(A-C)$ and B

10001001 .OR. 00110011

The ans is = 10111011,

Whose decimal equivalent is 187.

30) A = 10010001

B = 01101010

C = 10010110

$(A \cup B) \cap C = ?$ [(A union B) intersection C =?]

31) A = 0 0 0 0 one 1 one 1

B = 0 0 one 1 0 0 one 1

C = 0 one 0 one 0 one 0 1

(A U B) n C obtain the 4th row, having the bit trend as an integer in an 8-bit computer, and express the ans in its decimal value.

Ans: 29

32) A, B and C are eight bit nos. They are as follows:

A one 1 0 one 1 0 one 1

B 0 one 1 one 1 0 one 0

C 0 one 1 0 one 1 0 1

Find ((A-B) u C)=?

Hint: $109 \ A-B$ is $\{A\} - \{A \cap B\}$

Ans: 0 one 1 one 1 one 1 one (DB)

33) If A, B and C are the mechanisms used separately to decrease the wastage of fuel by 30%, 20% and 10%. What will be the fuel economy if they were used combined.

Ans: 20%

34) In the class of 40 students, 30 speak Hindi and 20 speak English. What is the least possible number of students who speak both the languages?

(a) five (b) 20 (c) 15 (d) 10 (e) 30

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35) In a two-dimensional array, X (9, 7), with every element occupying four bytes of memory, with the address of the 1st element X (1, 1) is 3000, obtain the address of

X (8, 5).

Sol: [HINT~ Formula=Base Add + Byte reqd {N (i-1) + (j-1)}

Where,

Base Add=3000;

Byte reqd=4;

N=no of columns in array=7;

i=8; j=5;

IN ROW MAJOR ORDER]

Ans: 3212

36) If the vertex (5, 7) is placed in the memory. 1st vertex (1, 1)'s address is 1245 and then address of (5, 7) is -----

Ans: 1279

37) A 2D array is declared as A [9, 7] and every element requires two byte. If A [1, 1] is stored in 3000. obtain the memory of A [8, 5]?

Ans: 3106

38) 1 circular array is provided (means the memory allocation takes place like a circular fashion) dimension (9X7) .starting address is 3000.find the address of (2, 3)

Ans: 555

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39) The size of a program is N. And the memory occupied by the program is provided by $M = \text{square root of } 100N$. If the size of the program is increased by 1% then how much memory now occupied?

Sol: N is increased by 1%

Therefore new value of $N = N + (N/100)$

$$= 101N/100$$

$$M = \text{sqrt}(100 * (101N/100))$$

Hence, we get

$$M = \text{sqrt}(101 * N)$$

Ans: 0. five % ($= \text{SQRT } 101N$)

40) A bus started from bus stand at 8.00a m and after 30 min staying at destination, it returned back to the bus stand. The destination is 27 miles from the bus stand. The speed of the bus 50 percent fast speed. At what time it returns to the bus stand.

Sol: (this is the step by step solution :)

A bus cover 27 mile with 18 mph in $=27/18=$ one hour 30 min.

And it wait at stand $=30$ min.

After this speed of return increase by 50% so 50%of 18 mph $=9$ mph

Total speed of returning $=18+9=27$

Then in return it take $27/27=1$ hour

Then total time in journey $=1+1:30+00:30 =3$ hour

So it will come at $8+3$ hour $=11$ a.m.

So Ans $=11$ a.m

41) A Flight takes off at two A.M from northeast direction and travels for 11 hours to reach the destination which is in North West direction. provided the latitude and longitude of source and destination. obtain the local time of destination when the flight reaches there?

Ans: seven AM or 1.00 PM

42) My flight takes off at 2am from a place at 18N 10E and landed 10 Hrs later at a place with coordinates 36N70W. What is the local time when my plane landed?

a) 6:00 am b) 6:40am c) 7:40 d) 7:00 e) 8:00

(Hint: Every one deg longitude is equal to four minutes. If west to east add time else subtract time)

Ans: 8:00

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43) A moves three kms east from his starting point. He then travels five kms north. From that point he moves eight kms to the east. How far is A from his starting point?

Ans: 13 kms

44) A plane moves from 9°N40°E to 9°N40°W. If the plane begins at 10 am and takes eight hours to reach the destination, obtain the local arrival time.

45) In Madras , temperature at noon varies according to $-t^2/2 + 8t + 3$, where t is elapsed time. obtain how much temperature more or less in 4pm to 9pm. (May be we can solve it by Definite Integration. Check any way}

Ans: at nine pm 7.5 more or 385.8 (DB)

46) For Temperature a function is provided according to time: $((t^2)/6) + 4t + 12$ what is the temperature rise or fall ranging from 4.AM TO nine AM

Sol: In equation first put $t=9$,

We will get 34.5..... (1)

Now put $t=4$,

We will get 27..... (2)

So Ans=34.5-27

=7.5

47) For Temperature a function is provided according to time: $((t^{**2})/6) + 4t + 12$ what is the temperature rise or fall ranging from five PM to eight PM

48) Low temperature at the night in a city is $1/3$ more than $1/2$ high as higher temperature in a day. Sum of the low tem. And highest temp is 100 degrees. Then what is the low temp?

Sol: Let highest temp be x

So low temp= $1/3$ of x of $1/2$ of x plus x/2 i.e. $x/6+x/2$

Total temp= $x+x/6+x/2=100$

Therefore, $x=60$

Lowest temp is 40

Ans :(40 deg.)

49) A person had to multiply 2 numbers. Instead of multiplying by 35, he multiplied by 53 and the product went up by 540. What was the raised product?

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a) 780

b) 1040

c) 1590

d) 1720

Sol: $x \cdot 53 - x \cdot 35 = 540 \Rightarrow x = 30$ therefore, $53 \cdot 30 = 1590$

Ans: 1590

50) How many positive integer solutions does the formula $2x+3y = 100$ have?

a) 50

b) 33

c) 16

d) 35

Sol: provided $2x+3y=100$, take l.c.m of 'x' coeff and 'y' coeff i.e. l.c.m of 2,3 ==6 then divide 100 with six , which turns out 16 hence ans is 16 short cut formula--- constant / (l.c.m of x coeff and y coeff)

51) The total expense of a boarding house is partly fixed and partly variable with the number of boarders. The charge is Rs.70 per head when there are 25 boarders and Rs.60 when there are 50 boarders. obtain the charge per head when there are 100 boarders.

a) 65

b) 55

c) 50

d) 45

Sol: let a = fixed cost and

k = variable cost and n = number of boarders

Total cost when 25 boarders $c = 25 \times 70 = 1750$ i.e. $1750 = a + 25k$

Total cost when 50 boarders $c = 50 \times 60 = 3000$ i.e. $3000 = a + 50k$

Solving above two eqns, $3000 - 1750 = 25k$ i.e. $1250 = 25k$ i.e. $k = 50$

Therefore, substituting this value of k in either of above two eqns we get

$a = 500$ ($a = 3000 - 50 \times 50 = 500$ or $a = 1750 - 25 \times 50 = 500$)

So total cost when 100 boarders $= c = a + 100k = 500 + 100 \times 50 = 5500$

So cost per head $= 5500/100 = 55$

52) Amal bought five pens, seven pencils and four erasers. Rajan bought six pens, eight erasers and 14 pencils for an amount which was half more than what Amal had paid. What % of the total amount paid by Amal was paid for pens?

a) 37.5%

b) 62.5%

c) 50%

d) None of these

Sol: Let, five pens + seven pencils + 4 erasers = x rupees

So 10 pens + 14 pencils + eight erasers = 2*x rupees

Also mentioned, six pens + 14 pencils + eight erasers = 1.5*x rupees

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So $(10-6) = \text{four pens} = (2-1.5) \times \text{rupees}$

So four pens = $0.5x$ rupees \Rightarrow eight pens = x rupees

So five pens = $5x/8$ rupees = $5/8$ of total (note x rupees is total amt paid by

Amal) i.e. $5/8 = 500/8\% = 62.5\%$

Ans: 62.5%

53) I lost Rs.68 in 2 races. My 2nd race loss is Rs.6 more than the 1st race. My friend lost Rs.4 more than me in the 2nd race. What is the amount lost by my friend in the 2nd race?

Sol: $x + x+6 = \text{rs } 68$

$2x + \text{six} = 68$

$2x = 68-6$

$2x = 62$

$$x=31$$

x is the amt lost in 1 race

$$x + \text{six} = 31 + 6 = 37 \text{ is lost in 2nd race}$$

Then my friend lost $37 + \text{four} = 41$ Rs

Ans: 41 Rs

54) A face of the clock is divided into 3 parts. 1st part hours total is equal to the sum of the 2nd and 3rd part. What is the total of hours in the bigger part?

Sol: The clock normally has 12 hr

Three parts x, y, z

$$x+y+z=12$$

$$x=y+z$$

$$2x=12$$

$$x=6$$

So the largest part is six hrs

Ans: six hrs

$$55) (1 - \frac{1}{6}) (1 - \frac{1}{7}) \dots (1 - \frac{1}{(n+4)}) (1 - \frac{1}{(n+5)}) = ?$$

Sol: Leaving the 1st numerator and last denominator, all the numerator and denominator will cancelled out 1 a different.

$$\text{Ans: } \frac{5}{(n+5)}$$

56) Ten boxes are there. every ball weighs 100 gms. 1 ball is weighing 90 gms.

- i) If there are three balls ($n=3$) in every box, how many times will it take to obtain 90 gms ball?
 - ii) identical ques. with $n=10$
-

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iii) identical ques. with $n=9$

Sol: The chances are

When $n=3$

(i) $nC_1 = 3C_1 = 3$ for 10 boxes.. $10 \times 3 = 30$

(ii) $nC_1 = 10C_1 = 10$ for 10 boxes $10 \times 10 = 100$

(iii) $nC_1 = 9C_1 = 9$ for 10 boxes..... $10 \times 9 = 90$

57) With $\frac{4}{5}$ full tank vehicle travels 12 miles, with $\frac{1}{3}$ full tank how much distance travels?

Sol: $\frac{4}{5}$ full tank = 12 mile

1 full tank= $12 / (4/5)$

$1/3$ full tank= $12 / (4/5) * (1/3) = \text{five miles}$

Ans: five miles

58) Wind flows 160 miles in 330min.for 80 miles how much time needed

160 miles?

Sol: one mile = $330/160$

80 miles= $(330*80)/160=165 \text{ min.}$

Ans: 165 min.

59) A person was fined for exceeding the speed limit by 10mph.another person was also fined for exceeding the identical speed limit by twice the identical if the 2nd person was traveling at a speed of 35 mph. obtain the speed limit

$$\text{Sol : } (x+10) = (x+35)/2$$

Solving the eqn we get $x=15$

Ans: 15

60) A sales person multiplied a number and get the ans is three instead of that number divided by 3.what is the ans he truly has to get.

Sol: presume 1

$$1 * \text{three} = 3$$

$$1 * 1/3 = 1/3$$

So he has to got $1/3$

Ans: $1/3$

61) The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent?

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Ans: 30 milliseconds

62) A person who decided to go weekend trip should not exceed eight hours driving in a day avg. speed of forward journey is 40 mph due to traffic in Sundays the return journey avg. speed is 30 mph. How far he can choose a picnic spot.

Ans: ranging from 120 and 140 miles

63) Car is filled with 4 and half gallons of oil for full round trip. Fuel is taken $\frac{1}{4}$ gallons more in going than coming. What is the fuel consumed in coming up.

Sol: Let fuel consumed in coming up is x .

Thus formula is: $x + 1.25x = 4.5$

Ans: 2gallons

64) 40% employees are male if 60% of supervisors are male so for 100% is 26.4%so the probability is

Ans: 0.264

65) Gavaskar avg. in 1st 50 innings was 50. After the 51st innings his avg. was 51 how many runs he made in the 51st innings

Sol: 1st 50 ings.- run= $50 \times 50 = 2500$

51st ings. - Avg 51. So total run = $51 \times 51 = 2601$.

So run scored in that ings= $2601-2500=101$ runs.

Ans: 101 runs

66) Hansie made the subsequent amounts in 7 games of cricket in India : Rs.10, Rs.15, Rs.21, Rs.12, Rs.18, Rs.19 and Rs.17 (all figures in crores of course).Find his avg. earnings.

Ans: Rs.16 crore

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67) avg. of five numbers is -10 sum of three numbers is 16, what is the avg. of other 2 numbers?

Ans: -33

68) If A, B and C are the mechanisms used separately to decrease the wastage of fuel by 30%, 20% and 10%. What will be the fuel economy if they were used combined. Ans: 20%

69) In 80 coins 1 coin is counterfeit what is minimum number of weighing to obtain out counterfeit coin

Sol: the minimum number of weightings needed is just 5.as shown beneath

(1) 80->30-30

(2) 15-15

(3) 7-7

(4) 3-3

(5) 1-1

Ans: 5.

70) two oranges, three bananas and four apples cost Rs.15. three oranges, two bananas, and one apple costs Rs 10. What is the cost of three oranges, three bananas and three apples?

Sol: $2x+3y+4z=15$

$$3x+2y+z=10$$

Adding

$$5x+5y+5z=25$$

$x+y+z=5$ that is for one orange, one banana and one apple requires 5Rs.

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So for three orange, three bananas and three apples require 15Rs.

i.e. $3x+3y+3z=15$

Ans: 15

71) In 8*8 chess board what is the total number of squares refers odele discovered that there are 204 squares on the board .We obtained that you would add the various squares

$$= \text{one} + \text{four} + \text{nine} + 16 + 25 + 36 + 49 + 64. = 204$$

Also in 3*3 tic tac toe board what is the total no of squares

Ans: 14 i.e. $9 + 4(\text{bigger ones}) + 1(\text{biggest one})$

If you get 100*100 board just use the formula the formula for the sum of the 1st n perfect squares is

$$n \times (n + 1) \times (2n + 1)$$

6

72) 1 fast typist kind a few matter in 2hr and a different slow typist kind the identical matter in 3hr. If both do combine in how much time they will finish.

Sol: Faster 1 can do $\frac{1}{2}$ of work in 1 hour slower 1 can do $\frac{1}{3}$ of work in 1 hour both they do $(\frac{1}{2} + \frac{1}{3} = \frac{5}{6})$ the work in 1 hour. So work will b finished in $\frac{6}{5} = 1.2$ hour

i e one hour 12 min.

Ans: one hour 12 min.

73)If Rs20/- is available to pay for typing a research report & typist A produces 42 pages and typist B produces 28 pages. How much should typist A receive?

Sol: obtain 42 % of 20 rs with respect to 70 (i.e. 28 + 42)

$$\Rightarrow (42 * 20) / 70 \Rightarrow 12 \text{ Rs}$$

Ans: 12 Rs

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74) In a few game 139 members have participated every time 1 fellow will get bye what is the number of matches to select the champion to be held?

Ans: 138 matches

(Explanation: since 1 player gets a bye in every round, he will reach the finals of the tournament without playing a match.

Therefore 137 matches should be played to determine the 2nd finalist from the remaining 138 players (excluding the first player)

Therefore to determine the winner 138 matches should be played.)

75) 1 RECTANGULAR PLATE WITH LENGTH 8INCHES, BREADTH 11 INCHES AND two INCHES THICKNESS IS THERE.WHAT IS THE LENGTH OF THE CIRCULAR ROD WITH DIAMETER eight INCHES AND EQUAL TO quantity OF RECTANGULAR PLATE?

Sol: Vol. of rect. plate= $8 \times 11 \times 2 = 176$

Area of rod= $(\frac{22}{7}) \times (\frac{8}{2}) \times (\frac{8}{2}) = (\frac{352}{7})$

Vol. of rod=area*length=vol. of plate

So length of rod= vol of plate/area= $176 / (\frac{352}{7}) = 3.5$

Ans: 3.5

76) 1 tank will fill in six minutes at the rate of 3cu ft /min, length of tank is four ft and the width is 1/2 of length, what is the depth of the tank?

Ans: three ft 7.5 inches

77) A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to power a plant opposite to that of the river and 1500mts away from the power unit. The cost of the cable beneath water is Rs. 15/- per meter and cost of cable on the bank is Rs.12/- per meter. obtain the total of laying the cable.

Ans: 1000 (24725 - cost) 20250

Ans: Rs. 22,500 (hint: the plant is on the other side of the plant i.e. it is not on the identical side as the river)

78) The cost of 1 pencil, 2 pens and 4 erasers is Rs.22 while the cost of 5 pencils, 4 pens and 2 erasers is Rs.32.How much will 3 pencils, 3 pens and 3 erasers cost?

Sol :(let x b pencil, y b pen and z b eraser... u get $x+2y+4z=22$ and $5x+4y+2z=32$ add $6x+6y+6z=54$ div by two you get 27)

Ans: 27

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79) A man has to get air-mail. He begins to go to airport on his motorbike. Plane comes early and the mail is sent by a horse-cart. The man meets the cart in the middle after half an hour. He takes the mail and returns back, by doing so, he saves twenty minutes. How early did the plane arrive?

Sol: Assume he started at 1:00, so at 1:30 he met cart .He returned home at 2:00.so it took

him one hour for the total journey. By doing this he saved 20 min. So the true time if the plane is not late is one hour and 20 min. So the true time of plane is at 1:40. The cart traveled a time of 10 min before it met him. So the plane is 10 min early.

Ans: 10 min

80) Ram singh goes to his office in the city every day from his suburban house. His driver Mangaram drops him at the railway station in the morning and picks him up in the evening. Every evening Ram singh reaches the station at five o'clock. Mangaram also reaches at the identical time. 1 day Ram singh started early from his office and came to the station at four o'clock. Not wanting to wait for the car he begins walking home. Mangaram begins at normal time, picks him up on the way and takes him back house, half an hour early. How much time did Ram singh walked?

81) two trees are there. 1 grows at $\frac{3}{5}$ of the other. In four years total growth of the trees is eight ft. what growth will smaller tree have in two years.

Sol: THE BIG TREE GROWS 8FT IN four YEARS=>THE BIG TREE GROWS 4FT IN two YEARS.WHEN WE DIVIDE $4\text{FT}/5=.8*3=>2.4$

$$\text{four } (x + (\frac{3}{5}) x) = 8 \Rightarrow \frac{8x}{5} = 2x = \frac{5}{4}$$

After two years $x = (\frac{3}{5}) * (\frac{5}{4}) * 2 = 1.5$ (less than two feet)

82) There is a 6 digit code. Its 1st 2 digits, multiplied by three provide all ones. And the next 2 digits multiplied by six provide all twos. Remaining 2 digits multiplied by nine provide all threes. Then what is the code?

Sol: Assume the digit xx xx xx (six digits)

First 2 digit $xx * 3 = 111$

$$xx = 111/3 = 37$$

(First 2 digits of one is not divisible by 3 so we can use 111)

Second 2 digit $xx * 6 = 222$

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$$xx = 222/6 = 37$$

(First 2 digits of two is not divisible by 6 so we can use 222)

Third 2 digit $xx * 9 = 333$

$$xx=333/9=37$$

(First 2 digits of three is not divisible by 9 so we can use 333)

83) There are four balls and four boxes of colors yellow, pink, red and green. Red ball is in a box whose color is identical as that of the ball in a yellow box. Red box has green ball. In which box you obtain the yellow ball?

Sol: Yellow box can have either of pink/yellow balls.

if we put a yellow ball in 'yellow' box then it would imply that 'yellow' is also the color of the box which has the red ball(because according to question, a box of the red ball and the ball in the yellow box have identical color)

Thus this possibility is ruled out...

Therefore the ball in yellow box must be pink, hence the color of box containing red ball is also pink....

=>the box color left out is 'green', which is allotted to the only box left, the 1 which has yellow ball.

Ans: green

84) A bag contains 20 yellow balls, 10 green balls, five white balls, eight black balls, and one red ball. How many minimum balls 1 should pick out so that to make sure the he gets at lowest two balls of identical color.

Sol: suppose he picks five balls of all various colors then when he picks up the 6th one, it must match any on of the previously drawn ball color. Thus he must pick six balls

Ans: he should pick six balls totally.

85) WHAT IS THE NUMBER OF ZEROS AT THE END OF THE PRODUCT OF THE NUMBERS FROM one TO 100?

Sol: For every five in unit place 1 zero is added

so ranging from one to 100 there are 10 nos like 5,15,25,...,95 which has five in unit place.

Similarly for every no divisible by 10 1 zero is added in the ans so ranging from one to 100 , 11 zeros are added

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For 25, 50, 75 three extra zeros are added

So total no of zeros are $10+11+3=24$

86) There are 2 numbers in the ratio 8:9. If the smaller of the 2 numbers is increased by 12 and the larger number is decreased by 19 the ratio of the 2 numbers is 5:9.

Find the larger number?

Sol: $8x: 9x$ initially

$$8x+12: 9x-19 = 5x: 9x$$

$$8x+12 = 5x$$

$$\rightarrow x = 4$$

$$9x = 36 \quad (\text{NOT SURE ABOUT THE ANSWER})$$

87) There are 3 various boxes A, B and C. Difference ranging from weights of A and B is three kgs. And ranging from B and C is five kgs. Then what is the maximum sum of the differences of all possible combinations when 2 boxes are taken every time

Sol: $A - B = 3$

$$B - C = 5$$

$$A - C = 8 \quad \text{so sum of diff} = 8 + 3 + 5 = 16 \text{ kgs}$$

88) A and B are shooters and having their examination. A and B fall short of 10 and two shots respectively to the qualifying mark. If every of them fired at lowest 1 shot and even by adding their total score together, they fall short of the qualifying mark, what is the qualifying mark?

Sol: Because every had at lowest one shot done so $10 + \text{one} = 11$

$$\text{And nine} + \text{two} = 11$$

So the ans is 11

89) A, B, C, and D tells the subsequent times by looking at their watches. A tells it is three to 12. B tells it is three past 12. C tells it is 12:2. D tells it is half a dozen too soon to 12. No 2 watches show the identical time. The difference ranging from the watches is 2,3,4,5 respectively. Whose watch indicates maximum time?

Sol: A indicates 11:57, B indicates 12:03, C indicates 12:02 and D indicates 11:06 therefore,

Max time is for B

90) Falling height is proportional to square of the time. 1 object falls 64cm in 2sec than in 6sec from how much height the object will fall.

Sol: The falling height is proportional to the square of the time.

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Now, the falling height is 64cm at 2sec

So, the proportional constant is $=64 / (2^2) = 16$;

So, at 6sec the object fall maximum $(16 \cdot 6 \cdot 6)$ cm = 576cm;

Now, the object may be situated at any where.

If it is >576 only that time the object falling 576cm within 6sec .Otherwise if it is situated <576 then it fall only that height at 6sec.

91) Last year pandit was thrice his sister's age. Next year he is only twice her age. After five years what is pandit's age.

- a) two b) 12 c) 11 d) 14

Ans: b

92) Jalia is twice older than qurban. If jalia was four years younger, qurban was three years older their diff. ranging from their ages is 12 years what is the sum of their ages

- a) 67 b) 57 c) 36 d) none

Ans: b

93) Father's age is five times his son's age. Four years back the dad was nine times older than son. Obtain the father's current age.

Ans. 40 years

94) Joe's dad will be twice his age six years from now. His mother was twice his age two years before. If Joe will be 24 2 years from now, what is the difference ranging from his father's and mother's age?

a) four b) six c) eight d) 10

95) Anand finishes a work in seven days; Bittu finishes the identical job in eight days and Chandu in six days. They take turns to finish the work. Anand on the 1st day, Bittu on the 2nd and Chandu on the 3rd day and then Anand again and so on. On which day will the work get over?

a) 3rd

b) 6th

c) 9th

d) seventh

In d first day Anand does $\frac{1}{7}$ th of total work

Similarly,

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Bithu does $\frac{1}{8}$ th work in d second day

Hence at the end of three days, work done = $\frac{1}{7} + \frac{1}{8} + \frac{1}{6} = \frac{73}{168}$

Remaining work = $(168-73)/168 = \frac{95}{168}$

Again after six days of work, remaining work is = $(95-73)/168 = \frac{22}{168}$

And hence Anand completes the work on seventh day.

Ans is d) seventh day

96) If TAFJHH is coded as RBEKGI then RBDJK can be coded as -----

Ans: qcckj

97) BFGE CODED AS CEHD THEN CODE PVHDJ

Ans: QUICK

98) obtain the no. of Y's followed by W but that is not followed by Z.

Y W R U D D Y W Z

99) If VXUPLVH is written as SURMISE, what is SHDVD ?

Ans. PEASA

(Hint: in the 1st word, the alphabets of the jumbled 1 are 3 alphabets after the corresponding alphabet in the word SURMISE. S = V-3, similarly obtain the 1 for SHDVD)

100) If DDMUQZM is coded as CENTRAL then RBDJK can be coded as -----

Ans. QCEIL

(Hint: Write both the jumbled and the coded word as a table, obtain the relation ranging from the corresponding words, i.e. C= D-1, N=M+1 & so on)

101) In the word ECONOMETRICS, if the 1st and second, 3rd and forth, forth and fifth, 5th and 6th words are interchanged up to the last letter, what would be the 10th letter from right?

Ans. word is CENOMOTEIRSC 10th word is R

102) If D_MUQZM is coded as CENTRAL then RBDJK can be coded as

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103) In a certain format TUBUJPO is coded as STATION. The code of which string is FILTER?

104) What is the code formed by reversing the 1st and 2nd letters, the 3rd and 4th letters and so on of the string SIMULTANEOUSLY?

105) In the word ORGANISATIONAL, by reversing if the 1st and 2nd the 3rd and 4th letters and so on of the string?

106) A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to power a plant opposite to that of the river and 1500mts away from the power unit. The cost of the cable beneath water is Rs. 15/- per meter and cost of cable on the bank is Rs.12/- per meter. obtain the total of laying the cable.

Ans: 1000 (24725 - cost) 20250

Ans: Rs. 22,500 (hint: the plant is on the other side of the plant i.e. it is not on the identical side as the river)

107) The cost of 1 pencil, 2 pens and 4 erasers is Rs.22 while the cost of 5 pencils, 4 pens and 2 erasers is Rs.32.How much will 3 pencils, 3 pens and 3 erasers cost?

Ans: 27

108) A shopkeeper bought a watch for Rs.400 and sold it for Rs.500.What is his profit percentage?

Ans. 25%

109) What percent of 60 is 12?

Ans. 20%

110) 3 men goes to a hotel to stay, the clerk says \$30 per room/day so all the 3 plans to stay in 1 room so every pays \$10.After a few time the clerk realizes that he made a mistake of collecting \$30 but the room cost only \$25, there fore he decides to return \$5 to them so he calls the room boy and provide him \$5 asking him to return. The room boy keeps \$2 with him and he returns only \$3(\$1 for each).Now Totally all have paid \$9 each(\$27)+room boy \$2 which is equal to \$27.where did \$1 go, who has made the mistake?

111) 2 pencils cost eight cents. Then five pencils cost?

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Ans :(20 cents)

112)Which is more economical of the subsequent
a)2kg -- 30/- b)8kg -- 160/- c)5kg -- 80/-

113)Satish earns 240 weekly.12% of big amount + earning weekly = 540
what is the big amount
a)3200 b)3600 c)2500 d)1000

Ans: c

114) Bhanu spends 30% of his income on petrol on scooter. $\frac{1}{4}$ of the remaining on house rent and the balance on food. If he spends Rs.300 on petrol then what is the expenditure on house rent? a) Rs.525 b) Rs.1000 c) Rs.675 d) Rs.175

Ans: 175

115) A sporting goods store ordered an equal number of white and yellow balls. The tennis ball company delivered 45 extra white balls, making the ratio of white balls to yellow balls $\frac{1}{5}$: $\frac{1}{6}$. How many white tennis balls did the store originally order for?

a) 450 b) 270 c) 225 d) None of these

Ans: 180

116) There is a circular pizza with negligible thickness that is cut into 'x' pieces by four straight line cuts. What is the maximum and minimum value of 'x' respectively?

a) 12, six b) 11, six c) 12, five d) 11, 5

117) Match the following:

- | | |
|--------------------------|-----------------------|
| 1. Male - Boy | ---> a. A kind of |
| 2. Square - Polygon | ---> b. A part of |
| 3. Roof - Building | ---> c. Not a kind of |
| 4. Mushroom - Vegetables | ---> d. A superset of |

Ans: 1- d, 2- a, 3- b, 4- c

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118) Match the subsequent.

- | | |
|-----------------------|-----------------------|
| 1. Brother - sister | ---> a. Part of |
| 2. Alsatian - dog | ---> b. Sibling |
| 3. Sentence - snippet | ---> c. kind of |
| 4. Car - steering | ---> d. Not a kind of |

Ans. 1-b, 2-c, 3-a, 4-d

119) Match the subsequent

- | | | |
|---------------|------------------|------------------|
| 1) Scooter | ----- Automobile | A. A PART OF |
| 2).Oxygen | ----- Water | B. A kind of |
| 3).Shop staff | ----- Fitters | C. NOT A kind OF |
| 4). Bug | ----- Reptile | D. A SUPERSET OF |

Ans. 1-b, 2-a, 3-d, 4-c

120) What is the largest prime number stored in a—

-----> six bit trend (ANS~ $2^6=64$, so no is 61)

-----> seven bit trend (ANS~ $2^7=128$, so no is 127)

-----> eight bit trend (ANS~ $2^8=256$, so no is 251)

----->9 bit trend (ANS~ $2^9=512$, so no is 503)

121) What is the max three digit Prime no?

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ANS=997

122) $G(0) = -1$, $G(1) = 1$, $G(N) = G(N-1) - G(N-2)$, $G(5) = ?$

Ans - 2

123) $G(0) = 1$, $G(1) = -1$ IF $G(N) = 2 * (G(N-1)) - 3(G(N-2))$ Then what is the value of

$G(4)$?

124) If $f(0) = 1$ and $f(n) = f(n-1) * n$, obtain the value of $f(4)$.

Ans: 24

125) If $g(0) = g(1) = 1$ and $g(n) = g(n-1) + g(n-2)$ obtain $g(6)$;

126) What is the power of 2? a. 2068 b.2048 c.2668

Ans: 2048

127) eight to the power of x is 32, what is the value of x?

128) Power of four Ans-4096

129) Which 1 will be the exact power of 3?
(i) 2768 (ii) 2678 (iii) 2187

130) Complete the series—

a)3,8,a,24,b,48,63 [ANS~ a=15, b=35]

[HINT~DIFFERENCE IS 5, 7, 9, 11, 13, 15]

B)26,19,17,13,11, ,8,7 [ANS=9]

[HINT~26,17,11,8 DECREASING LIKE 9,6,3 & 19,13,9,7 DECREASING

LIKE 6, 4, 2]

c)9,10,11,13,15, ,21,28 [ANS=19]

[HINT~9, 11, 15, and 21 INCREASING LIKE 2, 4, six & 10,13,19,28 INCRESING

LIKE 3, 6, and 9]

D) 4, -5, 11, -14, 22, --- [ANS= -27]

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131) Number of faces, vertices and edges of a cube

ANS: 6,8,12

132) obtain the value of—

a) $@@+25-++@16$, where @ denotes "square" & + denotes "square root". [ANS=621]

b) $\\$\\$6-\\$\\6 , where \$ means "tripling" & % means "change of sign". [ANS= -72]

c) $\% \# \% \text{ six } + \# \% \# 6$, % means "doubling" & # mean "reciprocal".

132) choose odd 1 out

1) LINUX, WINDOWS 98, SOLARIS, SMTP (ANS: SMTP)

2)MVS

3).JAVA b) LISP c) Smaltalk d)Eiffle Ans: LISP (All other languages are OOPS)

4)1.http 2.arp 3.snmp 4.sap Ans:sap

5)1.linux 2.windows NT 3.sql server 4.Unix Ans: Sql server

6)1.SAP 2.ARP 3.WAP 4.TCP IP

7)a. Oracle b. Linux c. Ingress d. DB2

a. SMTP b. WAP c. SAP d. ARP Ans:SAP

9)a. WAP b. HTTP c. BAAN d. ARP Ans:Baan

10)a. LINUX b. UNIX c. SOLARIS d. SQL SERVER Ans:SQL SERVER

11)a. SQL b. DB2 c. SYBASE d. HTTP Ans: HTTP

12)a. Oracle b. Linux c. Ingress d. DB2 ANS:LINUX

133) obtain the singularity matrix from a provided set of matrices? (Hint $\det(A) \neq 0$)

134) Which of the subsequent are orthogonal pairs?

a. $3i+2j$ b. $i+j$ c. $2i-3j$ d. $-7i+j$

Ans: a, c

135) (a) $2+3i$ (b) $1+i$ (c) $3-2i$ (d) $1-7i$.Find which of the above is orthogonal.

Ans: a, c

136) Sum of slopes of two perpendicular st. lines is provided. obtain the pair of lines from the provided set of choices which satisfy the above condition?

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137) If Rs.1260 is divided ranging from A, B and C in the ratio 2:3:4, what is C's share?

Ans: Rs. 560

138) A sum of money is divided among A, B and C such that for every rupee A gets, B gets 65 paise and C gets 35 paise. If C's share is Rs.560, the sum is ...

a) 2400 b) 2800 c) 3200 d) 3800

139) Complete the series.

- 1) 3, 8, --, 24, --, 48, 63. Ans: 15, 35
2) Complete the series. 4, -5, 11, -14, 22, --- Ans - 27
3) SERIES: 2, 7, 24, 77, ----- (238) or (240)
4) 77, 49, 36, 18, ? Ans: eight ($7*7=49$) ($4*9=36$) ($3*6=18$) ($1*8=8$)
5) series: five six seven eight 10 11 14?? Ans.15 or 18
6) 15 14 12 11?? nine eight Ans.10
7) what is the twelfth term of the series 2, 5, eight ... Ans. 35
8) 58, 27, 12, x, 2, 1. obtain x.
9) 7, 9, 13, __, 27, 37. Ans-19
10) 2, 5, __, 19, 37, 75 Ans: 9
11) Complete the sequence 9, 10, 11, 13, 15, __, 21, 28.

140) UNITS

- 1) $(\text{Momentum} * \text{Velocity}) / (\text{Acceleration} * \text{distance})$ obtain units. Ans: mass
2) $(\text{energy} * \text{time} * \text{time}) / (\text{mass} * \text{dist}) = \text{distance}$
3) $(\text{momentum} * \text{velocity}) / (\text{force} * \text{time}) = \text{velocity}$
4) obtain the physical volume in units from the equation:
 $(\text{Force} * \text{Distance}) / (\text{Velocity} * \text{Velocity})$ Ans. Ns^2/m
5) obtain the physical volume represented by

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MOMENTUM * VELOCITY] / [LENGTH * ACCELERATION]?

141) obtain the outcome of the subsequent _expression if, M denotes modulus operation, R denotes round-off, T denotes truncation:

$$M(373, 5) + R(3.4) + T(7.7) + R(5.8)$$

ANS: 19

142) Which of the subsequent highest Standard deviation

a) 7, - 7, 7, -7, 7, -7 b) 7, 7, 7, 7, 7, 7 c) -7, - 7, -7, -7, -7, -7 d) -7, 7, -7, 7, -7, 7

Ans: d

143) 232 expressed in base-5 is

Ans: 1412

144) A building with height D shadow up to G. A neighbor building with what height shadows C feet.

|----|----|----|----|----|----|

A B C D E F G H

Sol: B Ft. or CD/G

145) In a fraction, if one is added to both the numerator at the denominator, the fraction becomes $\frac{1}{2}$. If numerator is subtracted from the denominator, the fraction becomes $\frac{3}{4}$. obtain the fraction.

Ans. $\frac{3}{7}$

146) The sum of the digits of a 2 digit number is 8. When 18 is added to the number, the digits are reversed. obtain the number?

Ans. 35

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147) What number should be added to or subtracted from every term of the ratio 17 : 24 so that it becomes equal to one : 2.

Ans. 10 should be subtracted

Section-3 :(Critical Reasoning- 12 ques. - 30 min)

Refer GRE BARRONS text book twelfth Edition model papers.

Model paper 1: Sec - 5 , Sec- 6

Model paper 2: Sec -1 , Sec-6

Model paper 3: Sec -5 , Sec- 6

Model paper 4: Sec -5 , Sec-6

Model paper 5: Sec -3 , Sec-7

(Try to Mug up those parts .They will provide definitely from those model papers only)

Technical Interview:

(Be prepare with two core subjects (basics) of u r Branch)

(Be prepare with basics of C and DS and a few basic programs)

Basic C programs:

- Ø Prime Number
- Ø Sorting Techniques
- Ø Searching techniques
- Ø Factorial using recursion
- Ø Fibonacci series using recursion
- Ø Reverse the string
- Ø Palindrome

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Ø Armstrong no

Ø Strong no

Ø Data structures concept

Ø Linked list concept

Ø Stack, queue Algorithms

Managerial Round:

Ø Ask to solve any managerial issue regarding

Time management, Leadership qualities

Ø Tell about u r self

Ø Tell anything without interruption for five minutes (so be preparing in advance regarding group leader qualities and so on)

HR Interview:

Ø Tell about your self(This include ur name , ur place, ur SSC school name with % , Intermediate college name with %, u r dad ,mother, brother occupations- no need to tell their names, u r role model, ur hobbies, strengths, Area of interest, and u r achievements)

Ø Why TCS

Ø Tell about your strengths

Ø Tell about u r weakness

Ø Tell about u r hobbies

And so on

(Be confident with smiling face)

(If you fail to prepare then prepare to fail)

ALL THE BEST –I WISH YOU HAVE A BRIGHT FUTURE

By Anusha.

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