![PrepInsta logo]

# TCS NQT Questions from all slots (Refresh this every 5 mins)

- Please do not download this PDF as we will keep on updating the same PDF once we get new questions, from newer slots.

- For discouraging malpractice, we will only add questions here. Once the slot has completed.

- This PDF will contain all questions from all slots for 24th, 25th and 26th.

- Also share this PDF with your TPO's or placement cell of your college

- Keep Refreshing (CTRL + R) this document every 5 mins for newer questions

# With ❤️ from PrepInsta Team

**All the best for TCS NQT**

We work hard from your success

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**PrepInsta**

✅ **Which companies will hire after TCS NQT ?**

Wipro NLTH, IBM, Capgemini these are the companies which are expected to conduct their national level hiring test next month.
We recommend that immediately after your TCS NQT test, start preparing from them.

**How to get to know about when other off campuses will be there?**

Well just follow PrepInsta on our telegram/Instagram/WhatsApp we will post

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**Telegram** - *https://t.me/campusdrive*

# PrepInsta

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# Important Information

1. **Please do not download this PDF as we will keep on updating the same PDF once we get new questions, from newer slots.**

2. **For discouraging malpractice, we will only add questions here. Once the previous slot has completed.**

3. **Answers/Explanations will be slowly added, our team is working on the same.**

**Telegram** - *https://t.me/campusdrive*

4.  This PDF will contain all questions from all slots for 24th, 25th and 26th.

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# 24th October slot 1

# Important : Keep Refreshing this document (CTRL + R) every 5 mins, for new questions

## Numerical Ability

**Question 1-** What is the sum ( in RS) which when divided among X Y Z in the proportion 3:5:7 provides rupees 8000 more to Z then what it would have done to him when the proportion is 11 : 15 : 19?

  a.  180000
  b.  120000
  c.  175000
  d.  135000

**Answer 1:**
X:Y:Z
3: 5: 7

Z got 8000 more = 2 parts more than Y

If 2 parts = 8000

Then 1 part = 4000

Final ratio = 11: 15: 19 = 45 parts

45 x 4000 = Rs 180000

**Question 2-** If the positive square root of ( $\sqrt{90} + \sqrt{80}$ ) is multiplied by ( $\sqrt{2} - 1$) and the product is raised to the power of four, the result would be

   a. 100

   b. 1600

   c. 11520000

   d. 10

**Answer 2:** 10 (use the TCS calculator directly to find the answer of this question)

**Question 3-** A man has to travel 50 km in 2 hours. He could cover 20 km in one hour, and then had to stop for 10 minutes for refueling. By What factor should he increase his speed with reference to that during the first hour so as to be able to complete the journey as per schedule?

   a. 1.5

   b. 1.8

   c. 1.2

   d. 2.4

**Answer 3:** Total time he has = 2 hrs

total distance he has to covered = 50 km

in first 1 hr he completed 20 km

so $S1$= 20 km/hr

so remaining distance = 50-20 = 30 Km

and remaining time = 1 hr

now he spent 10 minutes for refueling

so total remaining time he has = 60-10 = 50 minutes

he has to complete 30 km in this time

speed = 30/(10/60) km/hr

speed = 36 km/hr

for making a factor of initial speed as 20 km/hr

multiply 36 with 20/20

speed = 36x(20/20)

=(1.8x S1 )km\hr

= 1.8 km/hr -----Ans (As S1 is 20km/hr)

**Question 4-** X is four times as efficient as Y in respect of doing a particular work. Working together they complete the work in 16 days. If you see this text know that this hardwork of PrepInsta was stolen by another company. In how many days y working alone will be able to half the work?

    a.  80

    b.  20

    c.  40

    d.  60

**Answer 4:** Efficiency of X = 4a

Efficiency of Y = a

Time taken by both to complete a work = 16 days

$$\frac{1}{4a} + \frac{1}{a} = \frac{1}{16}$$

$$\frac{1+4}{4a} = \frac{1}{16}$$

$$\frac{5}{4a} = \frac{1}{16}$$

a = 20

Hence X will do the work in 20 days

And Y will do the work in 80 days

Thus Y will do half of work in 40 days

## Note -

**Efficiency and time taken are inversely proportional**
**So, if a = 20**

**then efficiency of X is 4 times of Y**

**So Y will do the task in 80 days and will complete half of the task in 40 days**

**Question 5-** If $5^X 3^Y = 225 \times 405$, find the value of $X^{2Y-3X}$

   a. 27
   b. 81
   c. 125
   d. 25

**Answer 5:** Prime Factorization of 225 = 5 x 5 x 3 x 3

Prime Factorization of 405 = 3 x 3 x 3 x 3 x 5

$5^3 3^6 = 5^X 3^Y$

So X = 3 and Y = 6

Now, $X^{2y-3x} = 3^{2(6)-3(3)}$

$3^{12-9} = 3^3 = 27$

**Question 6-** The collection of numbers which comprise the data given below is arranged in ascending order.

(3,7,9, N - 1,15,18,19,20)

If the median of the data is 12.5, what is the value of N?

    a. 10.5
    b. 11.5
    c. 11
    d. 12

**Answer 6:** 11
Median of the even data = (sum of middle terms) / 2
= [(N - 1) + 15] / 2 = 12.5

**Question 7 -** How much percentage is (0.025% of 240% of 1.5) of 0.9?

    a. 10
    b. 0.01
    c. 0.1
    d. 1

**Answer 7:** 0.01%
0.025% of 240% of 1.5 = 0.0009
0.01 % of 9 = 0.0009

**Question 8 -** After purchasing two copies of the same book, X sold them respectively at 0.8 and 1.4 times their cost prices. What was the percentage gain earned or loss incurred by X?
    a. 10% loss
    b. 5% gain
    c. 10% gain
    d. 5% loss

**Answer 8:** 10% gain
Let the C.P of each copy be Rs 100

ATQ one copy is sold at 0.8 x 100 = 80

One copy is sold at 1.4 x 100 = 140

Total money spent in buying the copies = Rs 200

Total money earned after selling the copies = Rs (80 + 140) = Rs 220

Total gain of Rs 20. Therefore gain% = 10%.

**Question 9:** A file of cadets consisting of ten rows and five columns measures 420 m in length along the direction of their marching. How much time (in hours and minutes) would it take to march for a stretch of 3 km, if the stride of each cadet is 80 cm and he takes 57 strides per minute?

   a.  1 hr 10 min
   b.  1 hr 20 min
   c.  1 hr 24 min
   d.  1 hr 15 min

**Answer 9:**
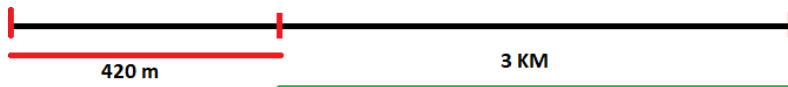


So total distance need to be covered by last cadet

=> D = 420

$$\text{Speed} = \frac{80}{100} \times 5.7 \times \frac{1}{60} \text{ per sec}$$

$$= \frac{76}{100} m/sec$$

$$\Rightarrow T = \frac{D}{S} = \frac{3420 \times 100}{76} = 4500 sec$$

= 75 min = 1 hr 15 min

**Question 10:** Two vessels X and Y of capacities one and two litres respectively are completely filled with mixtures of two chemicals A and B.The ratio by volume of the chemicals A and B in X and Y are 3:2 and 4:5 respectively.The contents of A and B are mixed and the combination is kept in a vessel C of capacity of four litres.How many litres of Chemical A should be added to the combination so as to make the ratio of A to B equal to 1:1?

a. $\dfrac{1}{270}$

b. $\dfrac{1}{67}$

c. $\dfrac{1}{68}$

d. $\dfrac{1}{135}$

**Answer 10:**

In X

A:B

$$\frac{600}{1000} : \frac{400}{1000}$$

In Y

A:B

$$\frac{8}{9} : \frac{10}{9}$$

$$\overset{X}{\left(\frac{6}{10}; \frac{4}{10}\right)} Lt + \overset{Y}{\left(\frac{8}{9}; \frac{10}{9}\right)} Lt$$

$$A = \frac{6}{10} + \frac{8}{9}; B = \frac{4}{10} + \frac{10}{9}$$

$$A : B = \frac{54 + 80}{90} : \frac{36 + 100}{90}$$

$$= 134 : 136$$

$$= 67 : 68$$

$$= \frac{67}{68} : 1$$

$$= \frac{67}{68} + \frac{1}{68} : 1$$

$$= \text{We will get } 1:1 => \frac{1}{68}$$

**Question 11 -**The diameter of a pizza is 30 cm.What is the area(in $cm^2$)of the upper surface of a sector of the pizza whose arc length is 8 cm?

    a. 120
    b. $120\pi$
    c. $60\pi$
    d. 60

**Answer 11:** Area of sector when arc is given = (L x r)/2
Where L = length of arc and r = radius of the circle
Here L = 8 cm and r = 15 cm

Therefore, Area = $\dfrac{8 \times 15}{2}$ = 60cm²

**Question 12-** In a competitive exam, 5 marks are awarded for every correct answer and for every wrong answer, 2 marks are deducted. Sathwik scores 32 marks in the examination. If 4 marks had been awarded for each correct answer and 1 mark had been deducted for each incorrect answer, Sathwik would have scored 34 marks. If Sathwik attempted all the questions, how many questions were there in the test ?

1. 14
2. 12
3. 20
4. 26

**Answer 12:** 26 Answer
In given Question:-
Correct answer =5x and wrong answer=2y
Correct answer =4x and wrong answer= 1y

So,
5x -2y = 32
4x-2y =34----- *2
 Now
5x-2y =32
8x-4y=68
By solving
3x=36
x=12

Now to find 'y'
5*12 -2y =32
60 -2y= 32
y=14

By adding x+y

12+24 =26

Questions in the test =26

**Question 13-** An item was sold at a profit of 12% after giving a discount of 12.5% on the list price. What would be the gain or loss percentage if a discount of 25% is given on the list price ?

1. 2.5% gain
2. 2.5% loss
3. 4% loss
4. 4% gain

**Answer 13:**

Cp ------- > 100%

Sp-------- > 112% (12% profit)

But Sp is 12.5% of M.P => 12.5% discount

=> 87.5% of M.P = 112

=> list price = 128

25% discount on M.P = 25% of 128 = 32

=> 128 - 32 = 96 = S.P

C.P = 100 => SP = 96 => 4% loss

**Question 14-** The mean of a set of data is 5. What will be the mean if ten is subtracted from each data ?

1. -5
2. 5
3. 10
4. -15

**Answer 14:** -5

let the number of data be n

so sum of data = mean * number of data

= 5 n

now 10 is subtracted to each data

so now sum becomes = 5n-10n =-5n

mean = sum of data /no. of data

=-5n/n = -5

so new mean becomes -5

**Question 15-** If (x+10)% of 240 is 60% more than x% of 180, then 15% of (x+20) is what percent less than 25% of x ?

1. 15
2. $19\frac{1}{21}$
3. 16
4. $15\frac{1}{2}$

**Answer 15:**

(x + 10)% of 240 = x% of 180 + 60% of 180

if you solve this expression x value = 50

15% of x+20 is 10.5

25% of x is 12.5

so how much less = 2/12.5 * 100 = 16

**Questions 16-** What is the diameter (in cm) of a solid right circular cylinder whose height is 6 cm and the area of the curved surface is five times the combined area of the two flat surfaces

1. 2.4

2. 0.9
3. 1.2
4. 3

**Answer 16:** 1.2

Here h = 6 cm

C.S.A = $2\pi rh$

$2\pi rh = 5(2\pi r^2)$

$2 \times \pi \times r \times 6 = 10 \times \pi \times r^2$

$12 \times \pi \times r = 10 \times \pi \times r^2$

$12 = 10r$

$1.2 = r$

Then diameter is 2.4

**Questions 17-** A sum invested on simple interest grows to Rs 22500/- and Rs 25500/- is seven and nine years respectively. If you see this text know that this hardwork of PrepInsta was stolen by another company. What is the rate percentage of the interest ?

1. 7.5
2. 9.6
3. 12.5
4. 13.5

**Answer 17:** Total Interest of two years= 25500-22500=3000

Interest of one year= 3000/2 = 1500

Total Interest = 9 * 1500 = 13500

Principle = 25500 - 13500 = 12000

R= I * 100/P *t

= 13500 *100/1200*9 = 12.5

**Question 18-** What is the value of $(0.0000128)^{\frac{1}{7}}$ ?

1. 0.5
2. 5
3. 0.2

4. 2

**Answer :** Option 3
**Solution :-** ⅕= 0.2

**Question 19 -** The variation in temperatures throughout the day in a desert town was studied on the basis of the record of minimum and maximum temperatures which were 8 and 36 degrees centigrade respectively. What was the standard deviation in degree centigrade?

    a. **12**
    b. **22**
    c. **14**
    d. **28**

**Answer 19:** min ---> 8 degrees
               Max -----> 36 degrees

$$\frac{8+36}{2} = 22$$

$$S.D = \sqrt{\frac{\sum(x_i - \mu)}{N}} = \sqrt{\frac{(8-22)^2 + (36-22)^2}{2}}$$

$$\sqrt{\frac{(14)^2 + (14)^2}{2}} = \sqrt{\frac{2 \times (14)^2}{2}} = 14$$

**Question 20 -** A sum of Rs. 30000 invested in a scheme where the interest gets compounded annually and grows to Rs. 51840 in three years. How much interest in Rs. would have got accrued in six months in the same scheme had the interest been compounded quarterly?

    a. 3075
    b. 2975
    c. 3024

d. 3126

**Answer 20:**

$$51840 = 30000 \text{ x} \left(1 + \frac{r}{100}\right)^3$$

$$\frac{51840}{30000} = \left(1 + \frac{r}{100}\right)^3$$

$$\Rightarrow 1 + \frac{r}{100} = 3\sqrt{1.728}$$

$$\Rightarrow 1 + \frac{r}{100} = 1.2$$

$$\Rightarrow \frac{r}{100} = 0.2 \Rightarrow r = 20\%$$

Rate of interest CI per quarterly $= \frac{r}{4} = 5\%$

=> for 6 months => 5% of 30000 = 1500 (1ˢᵗ quarter)

5% of 30000 + 5% of 1500 = 1500 + 75 (2ⁿᵈ quarter)

=> total of 6 months = 3075.

**Question 21-** 96 men were engaged for a project of constructing a railway track of the length of 18 km in four weeks. After one week it was observed that the work of 4 km was completed. How many additional men should be engaged for timely completion of the project?

    a. **16**
    b. **14**
    c. **15**
    d. **12**

**Answer:**

4 km was completed by 96 men

Remaining work is 14km in three weeks so per week 14/3

For 4km--------- 96men

For 14/3 km ----------- ?

= 14/3 x 96 x ¼ = 112 so additionally 16 men needed

**Question 22-** If n is an integer such that 1nn352 is a six-digit number exactly divided by 24, what will be the sum of the possible value of n?

   a. 21
   b. 27
   c. 9
   d. 15

**Answer 22:** 15

Possible values of n are 2, 5 and 8 so sum of all possible values is $2 + 5 + 8 = 15$

**Question 23.** What is the mean deviation of the data 8,9,12,15,16,20,24,30,32,34?

A.10.2

B.8

C.0

D.9.6

**Answer:**

Step 1

Find the mean

8+9+12+15+16+20+24+30+32+34/10

=200/10

=20

Find the distance of each value from that mean

| Value | Distance from 20 |
|-------|------------------|
| 8 | 12 |
| 9 | 11 |
| 12 | 8 |
| 15 | 5 |
| 10 | 4 |
| 20 | 0 |
| 24 | 4 |
| 30 | 10 |
| 32 | 12 |
| 34 | 14 |

Step 3:- Find the mean of those distances

12+11+8+5+4+0+4+10+12+14/10
80/10=8

**Question 24 -** The marks scored by a student out of 100 in English and Mathematics at four consecutive monthly tests held in 2019 are presented through a Bar Graph shown below. In each case the marks are a multiple of five.
In which month is the difference of marks scored in the two subjects the highest ?
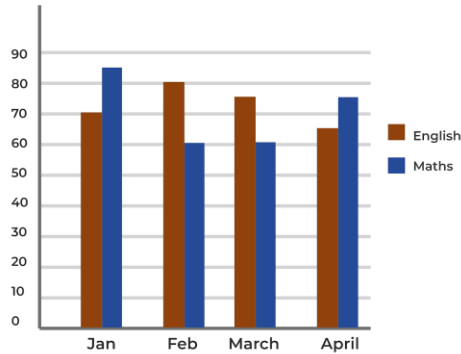
1. Jan
2. Mar
3. Apr
4. Feb

**Answer 24:** Feb (it is clear from the graph itself.)

**Question 25-**

The temperature ($in^{\circ}$}F of a patient was recorded (using a clinical thermometer with smallest division equal to 1^{\circ}F) during 6 AM to 8PM on four consecutive days,A,B,C,D at intervals of two hours and the results are presented in a tabular form given below.The reading at a particular time provides the average body temperature (ABT) of the patient for the previous one hour.He is supposed to be given temperature controlling medicine (TCM) at the bedtime if the total duration of his ABT remaining above 99^{\circ}F during the 14 hour period of record is four hours or more.on which day,TCM was required?

| Day/Time | 0600 | 0800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|---|---|---|---|---|---|---|---|---|
| A | 101 | 100 | 99 | 98 | 99 | 98 | 100 | 100 |
| B | 98 | 99 | 100 | 100 | 99 | 99 | 100 | 102 |
| C | 98 | 99 | 99 | 101 | 100 | 99 | 99 | 100 |
| D | 98 | 98 | 99 | 99 | 99 | 98 | 98 | 99 |

- A
- D
- B
- C

**Question 26:** What is the mean proportional (MP) between the MPs of $\left(\frac{2}{7} \ \& \ \frac{32}{343}\right)$ and $\left(2 \ \& \ \frac{1}{5000}\right)$

A. $\frac{2}{175}$

B. $\frac{3}{35}$

C. $\frac{4}{35}$

D. $\frac{2}{35}$

**Answer:** $\sqrt{\sqrt{\dfrac{2}{7} \times \dfrac{32}{343}} \times \sqrt{2 \times \dfrac{1}{5000}}}$

$4\sqrt{\dfrac{2}{7} \times \dfrac{22}{343} \times \dfrac{2}{5000}}$

$4\sqrt{\dfrac{2^4}{7^4} \times \dfrac{8}{5000}}$

$4\sqrt{\dfrac{2^4}{7^4} \times \dfrac{1}{5^4}}$

$\dfrac{2}{35}$

## Verbal Ability

**Question 1 -** For the four sentences S1 to S4 paragraph below, sentences S1 and S4 are given. From the options P Q and R, choose appropriate sentences for the following.

S1- Gandhi does not reject machinery as such

S2-

S3-

S4 what he objects to is the craze for machinery, not machinery as such.

P: He says that today, machinery merely, If you see this text know that this hardwork of PrepInsta was stolen by another company helps a few to ride on the back of millions.

Q: And adds that the spinning wheel is a machinery, a little toothpick is a machine.

R: He observes "How can I be against machinery when I know that even this body is a most delicate piece of machinery"

----------

a. QR
b. RQ
c. PQ
d. QP

**Answer: Option B**

RQ

**Question 2 :** Government have been promising the eradication of child labour in high-risk industries in India for many years. However, almost 100 million children are still not able to go to school, and around 10 million are working in (1) _____industries. India has the biggest child population of 380 million in the world _____number of children who are forced to earn a living.

Blank 1A. honorary B.hazardous C.handicraft D.hardware

Blank
2. A. largest
B. lowest
C.latest
D.loudest

Options:
a. C , B
b. D, C
c. **B, A**
d. A, D

**Answer - B , A - Hazardous industries, and largest number of children.**

**Question 3:** Read the passage given below and answer the questions

It used to be the American shopper that exemplified the state of the world economy. The focus now should be on the person on the other side of the till. America's retail industry is huge; it employees 15.9 million workers who represent one in nine American jobs. If you see this text know that this hardwork of PrepInsta was stolen by another company. It is also undergoing a wrenching change, as E-Commerce is into sales. There is no more pressing test of society's ability to walk with technology's impact on work.

That impact is already visible. For all the benefits that online retailing brings to consumers, it is causing immense pain to offline rivals. Last year 4000 American stores closed; this year more than twice the number main shutter standard and poor's a rating agency, expects retails defaults there to outnumber those in 2009. at the height of the global recession. some formats-----discount stores groceries,  high end mails----- will continue to thrive. But many will shrink. The industry has shed 50,000 net jobs since January. Department stores may need to close more than 800 stores to reach the productivity levels of 2006. Many outlets are looking for ways to cut labour costs by embracing automation

**The passage is mainly about-------**

a.  those who cannot afford to buy anything in large retailer  shops
b.   those who regularly do their shopping online
c.  those who run large business and retail stores
d.  those who run smaller retailer shops

Answer: D

**Question 4- Read the passage given below and answer the questions**

It used to be the American shopper that exemplified the state of the world economy. The focus now should be on the person on the other side of the till. America's retail industry is huge; it employees 15.9 million workers who represent one in nine American jobs. It is also undergoing a wrenching change, as E-Commerce is into sales. There is no more pressing test of society's ability to walk with technology's impact on work.

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**What is the significant measures that stores are trying to adapt**

    a. **Automation**
    b. Diversifying
    c. Merging
    d. Shutdown Business

**Answer - Automation. (A)**
**The answer is clearly stated in the last line of the passage.**

**Question 5- Read the passage given below and answer the questions**

It used to be the American shopper that exemplified the state of the world economy. The focus now should be on the person on the other side of the till. America's retail industry is

huge; it employees 15.9 million workers who represent one in nine American jobs. It is also undergoing a wrenching change, as E-Commerce is into sales. There is no more pressing test of society's ability to walk with technology's impact on work.

That impact is already visible. For all the benefits that online retailing brings to consumers, it is causing immense pain to offline rivals. Last year 4000 American stores closed; this year more than twice the number main shutter standard and poor's a rating agency, expects retails defaults there to outnumber those in 2009. at the height of the global recession. some formats-----discount stores groceries, high end mails----- will continue to thrive. But many will shrink. The industry has shed 50,000 net jobs since January. Department stores may need to close more than 800 stores to reach the productivity levels of 2006. Many outlets are looking for ways to cut labour costs by embracing automation

**Which businesses will NOT continue to productivity levels of 2006**

a. Grocery Stores
b. High end mails
c. Discount stores
d. Department Stores

Answer: Department Stores
**Department stores** may need to close more than 800 stores to reach the productivity levels of 2006.

**Question 6- Read the passage given below and answer the questions**

It used to be the American shopper that exemplified the state of the world economy. The focus now should be on the person on the other side of the till. America's retail industry is huge; it employees 15.9 million workers who represent one in nine American jobs. It is also undergoing a wrenching change, as E-Commerce is into sales. There is no more pressing test of society's ability to walk with technology's impact on work.

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**Why does the writer consider it important to discuss the plight of those on the other side of the till**
   a.   they need to be trained to deal with pandemic related protocols
   b.  they have to take greater safety precautions at the workplace
   c.  they know they now have less work to do but are great getting paid well
   d.  there are a very large group of workers whose jobs are threatened

**Answer: Option D**
**there are a very large group of workers whose jobs are threatened**

**Question 7**: One the part of the sentence below may contain an error identify the part if there is no error choose "No error"

The state government has proposed to put on place the new portal to promote transparency and simplification

   a.  The state government has proposed
   b.  **to put on place the new portal**
   c.  No Error
   d.   to promote transparency and simplification

Answer - B

Put in place will be the right preposition.

**Question 8 :** Read the passage given below and answer the questions

Twinkling lights are just visible behind screens where staff are putting the finishing touches of this year's Christmas displays, but in other parts of the shop, the lights are still off. John lewis, flagship store in Oxford Street, Central London, If you see this text know that this hardwork of PrepInsta was stolen by another company. is bearing the scars of the pandemic.

A restaurant and cafe are closed as there is more stuff than customers on the furnishings floors. The fashion floor is also a depressing sight, with tags flagging big discounts on racks of unwanted dresses and office wear. Last week it emerged that, John Lewis had applied for planning permission to convert entire floors of the shop into office space, it's not hard to see why ,

John Lewis, with its employee ownership and reputation for stealing customer service, still holds a special place in shoppers' hearts. But while sister chain Waitrose along with other supermarkets, has thrived in the pandemic results published last week show the department store chain is in trouble.
Huge changes in shopper behaviour, which have been accelerated by coronavirus mean the John Lewis website is now responsible for 60% of the chain sales ------- up from 30 % pre-covid. This tilt towards the web means the department stores, as properties, and now deemed to be worth nearly Euro 500Mn and less than before------ a reassessment in last week's results that sent the group crashing Euro 635 Mn into the red in the first half of its financial year.

**Which one of the following is not a scar of the pandemic ?**

a. more floors converted to office space
b. **putting finishing touches to festival decorations**
c. Lights off in parts of the shop
d. Fewer customers and more staff

Answer - B
**putting finishing touches to festival decorations is not a scar of the pandemic as stated in the first line of passage.**

**Question 9 :** Which of the following sentences does NOT use informal language?

a. Did you locate our office quite easily?
b. You will be working with different managers during your training
c. **We shall endeavour to inform you of the position in two weeks time**
d. Is there anything else you want to ask?

**Answer - C.. Use of endeavour is formal. Informal would be 'try'.**

**Question: 10-** One part of the sentence below may contain an error. Identify the part. If there is no error, choose 'No Error'
Everyday life have become more complicated with the advancement in mobile technology.

a. **Everyday life have become**
b. No error
c. advancement in mobile technology
d. more complicated with the

**Answer - A . everyday life has become (life is singular)**

**Question 11:** The following three sentences can be revised into one better sentence. Choose the sentence that is the best revision:

I was at the fair. I got lost. I got scared

    a.  I am scared after I am lost at the fair
    b.  I went to the fair and got scared as i was lost
    c.  I am lost the fair so i am too scared
    **d.  I got lost at the fair and was scared**

**Answer - D**
This sentence combines all the elements of the 3 sentences with a proper use of conjunction and tenses.

**Question 12 :** Henry looks carefully into the telescope which lets him see far, far away, as far as the distant nebulae on the far edges of the Milky Way. Henry is an_____. He looks at the sky and stars in particular. Even though he spends much of his time looking at detailed computer reports, which are just lists and lists of numbers. His_____thing about his job is looking through the telescope. And today he is very excited. He isn't sure yet, but he thinks he has seen a dense cloud which might be the beginning of a new star.

Blank 1 - A. astrologer B - astrologist C -astronomer D - Astronaut
Blank 2 - A. favoring   B - pleasant   C - pleasing   D - favourite.

    a.  D , B
    b.  C , D
    c.  A , A
    d.  B , C

Answer - B ( C , D)
Henry is an **astronomer** (who studies the stars and planets) and his **favourite** thing is to look at the sky.

**Question 13:** Fill in the blanks with the most appropriate set of words from the options given below.

What did the painter do_____himself from falling?
When he felt the ladder_____he grabbed the gutter to save himself from falling.

    a.  To save / began slipping
    b.  To save / beginning to slip
    c.  To save / begin to slip
    d.  For saving / began to slip

Answer - D

**Question 14:** You are going to read a text about an artist. Some sentences are missing from the text. Choose from the list. (A-C) the most appropriate sentence for each gap (1-2) in the text. There is one extra sentence that you do not need to use.

Kahini held her first solo show in 1998, the entire proceeds of which went to the Helen Keller institute for the Deaf and Blind in Mumbai._____Encountering the pathless terrain of inner landscape, the artist engages in a restless re-examination of idea and image._____She has also taken part in several art camps.

    A. In her fifth solo show with acrylic and oil-on-canvas paintings in the series titled 'Metamorphosis' held recently at the Mumbai's Jehangir Art Gallery. She showed for the first time her abstract work as well.
    B. Her work has been acquired by corporate houses and also forms part of private collections.
    C. She has participated in a group show along with 50 women artists to celebrate International Women's Day

    a.  A , C

b.  C , B
c.  A, B
d.  B , A

Answer: B, A

**Question 15**: Aisha had been very successful managing her team in Edinburgh and was asked by the company to lead a remote team for an important two- year project. Keen to demonstrate her leadership abilities to the head office. Aisha got her team members together for a remote meeting. If you see this text know that this hardwork of PrepInsta was stolen by another company. But right from that first meeting , she realized that this was going to be a different challenge.

1.  _____Lucia kept asking about really specific details while Aisha was hoping to use the meeting to get to know the team members and identify priorities. Archies and Lucia kept accidentally talking at the same time, and when they didn't speak, there was an uncomfortable silence. Valentina hardly said a word. _____Without these visual clues, Aisha had no idea whether people were interested, lost, confused or bored.

A. No one had their cameras on, so there was none of the usual communication through body language and facial expressions.
B. Compared to a face-to-face meeting the remote team is not preferred by all the managers
C. For a start, Archie was late for the meeting by about 15 minutes because of the 'technical problems'.

a.  A , C
b.  B , A
c.  A , B
**d.  C , A**

**Answer - C, A**
**C starts with (for a start) hence this will be the beginning.**
**A talks about lack of visual clues which satisfies the sentence following the blank.**

**Question: 16 - Select the most appropriate option to fill in the blank**

The final report on the project was _____ into three parts

    a.  Broken out
    b.  Broken off
    c.  Broken up
    d.  Broke away

Answer: Option C
**Broken Up**

**Question: 17- The lady _____ purse was lost lodged a complaint at the police station**

    a.  Whom
    b.  Who
    c.  Whose
    d.  Which

Answer : Whose. (C)
Whose is a relative pronoun that takes the place of a noun, pertaining to relate with a person.

**Question: 18- One part of the sentence below may contain errors.**
Identify the part if there is no error choose "No error".

The board announced that the decision to reduce the syllabus is yet to be approved by the competent authority.

  a. No error
  b. the decision to reduce the syllabus
  c. The board announced that
  d. is yet to be approved by the competent authority.

Answer - No error (A)

**Question 19- For the four sentences (S1 to S4) paragraph below, sentences S1 and S4 are given. From the P, Q, R, choose the correct sequence.**

S1- Once upon a time an ambassador came to see the king of Sparta on some official business.
S2-
S3-
S4 - But he found Nothing of the kind.

P - The ambassador knew that the king of Sparta was also really the ruler of the entire Greece and so he expected to see the massive ……………………………
Q - You are looking at the walls - ten thousand men and every man is a brick
R- After their work was over the King took his visitor on a sightseeing tour of the capital city.

  a. RP
  b. RQ
  c. PQ
  d. QP

**Answer: Option a.**
**RP**

**Question: 20- For the four sentences (S1 to S4) paragraph below, sentences S1 and S4 are given. From the P, Q, R, choose the correct sequence.**

S1 - The question has often been asked why the Wright Brothers were able to succeed in an effort in which so many others had failed.

S4 - Both men worked well together, read the same books, located and shared information, talked incessantly about the possibility of manned flight, and served as a consistent source of inspiration and encouragement to each other. If you see this text know that this hardwork of PrepInsta was stolen by another company

P - First, they were a team.
Q - Many explanations have been mentioned, but three reasons are most often cited
R - Each aircraft was slightly better than the last, incorporating in it the knowledge that they had gained from previous failures.

    a.  PR
    **b.  QP**
    c.  RQ
    d.  PQ

Answer: QP

**Question: 21- You are going to read a text about a man in a photograph. Some sentences are missing out from the text. Choose from the list (A to C) the most appropriate sentence for each gap (1-2)in the text. There is one extra sentence that you do not need to use**

It was the first photograph that I had ever seen, and it fascinated me. I still remember holding it at every angle in order to catch the flickering light from the (1)_____
I never met him but I felt that I knew him. (2)_____I moved the photograph so the shadow lay perfectly around his hollow cheeks. How differently his chin looks.

a. The man in the photograph was Unsmiling but his eyes were kind.
b. I would tell him how wonderful he looked with the the shadow that I had seen across his photograph, and I would most carefully suggests that he grew with
c. One evening when I was looking at the photograph, as I always did before I went to sleep, I noticed a shadow across the man's thin face.

A. 1- C 2- A
B. 1- C 2- B
C. 1- B 2- A
**D. 1- A 2- C**

Answer: Option D ( 1- A 2-C)

## Logical Ability

**Question 1:** In the following diagram, the triangle stands for "males", the circle stands for "doctors",, the rectangle stands for "government employed", the hexagon stands for "corona warriors". If you see this text know that this hardwork of PrepInsta was stolen by another company. The numbers in different segments show the number of persons for that segment.
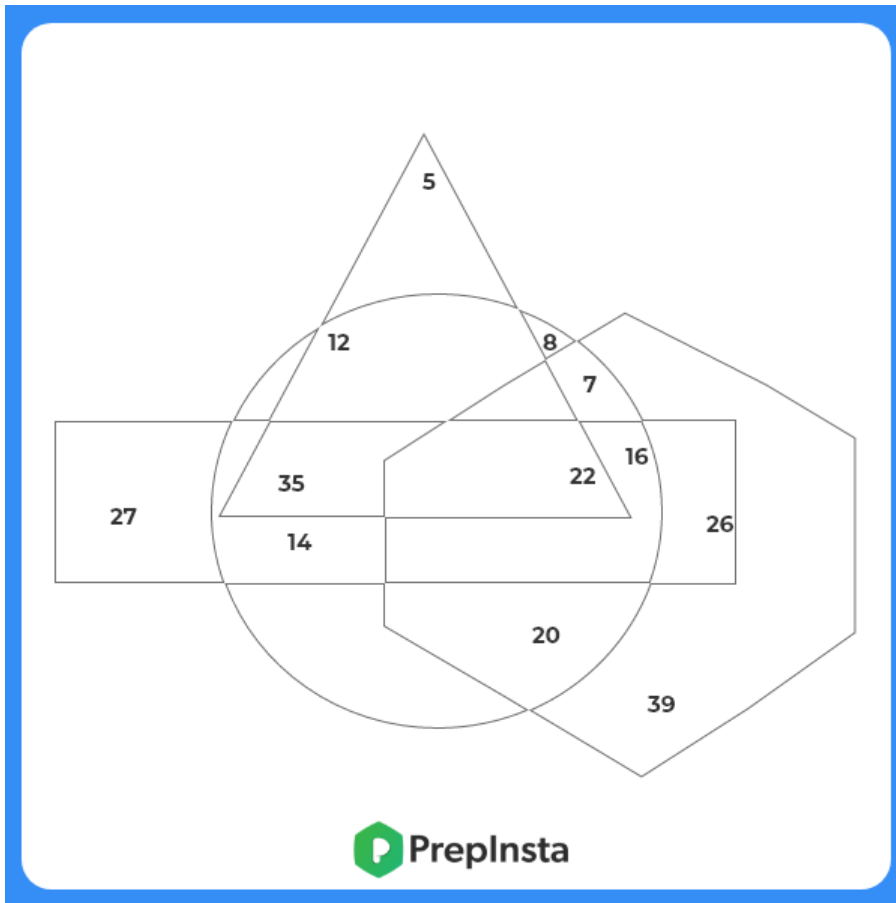
How many government-employed doctors are corona warriors but are not males?

A. 14
B. 23
C. 16
D. 17

**Solution:**

5

government-employed doctors are
corona warriors but are not males

12    8
7

27    35    22    16    26
14    20
39
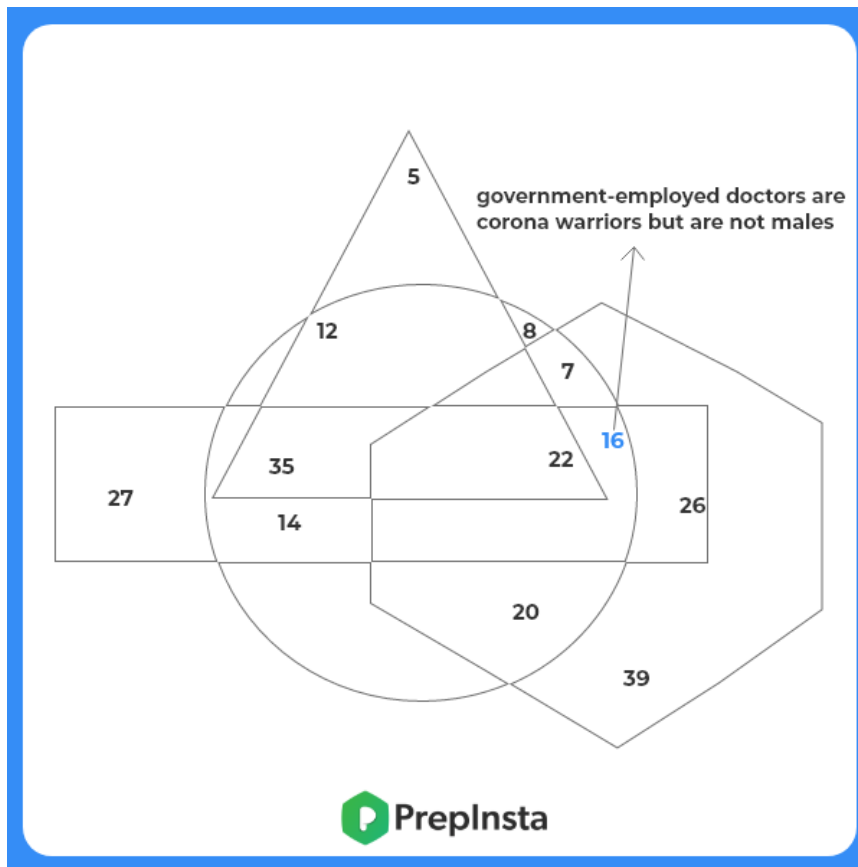
**Question 2:** In the following diagram, the rectangle stands for tennis fans, the circle stands for athletes, and the triangle stands for students, and the square stands for hockey players. The numbers in different segments show the number of persons.
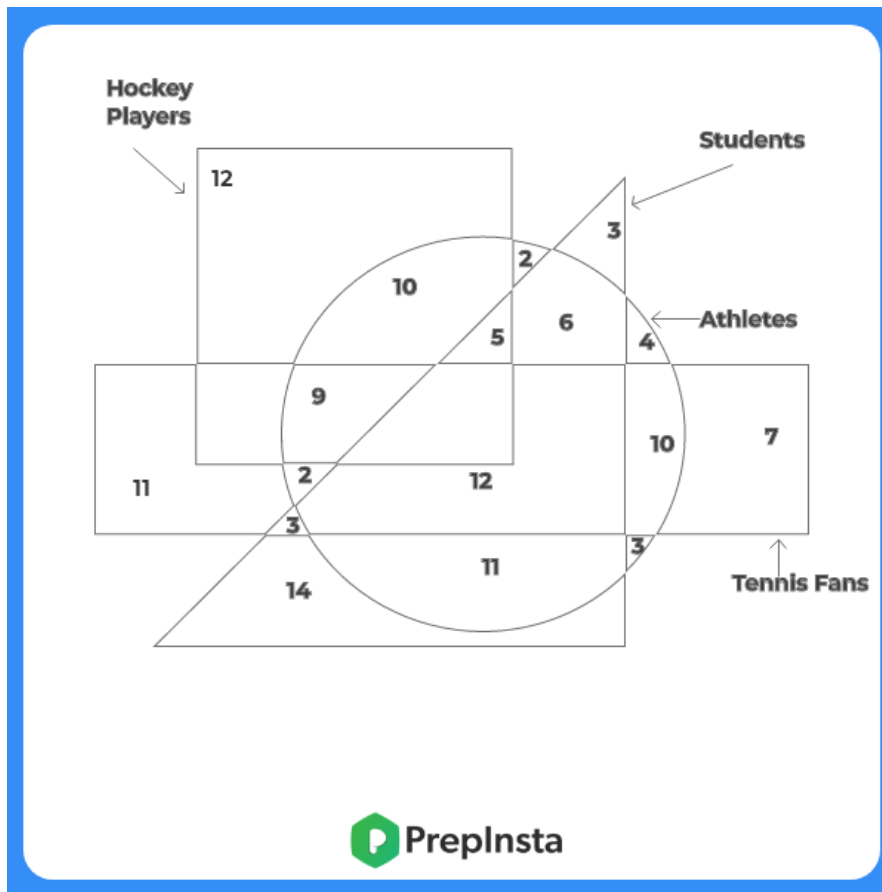
How many athletes playing hockey are either students or tennis fans but not both

    A.  18

    B.  15

    C.  14

    D.  3

Solution:

Hockey Players

Students

Athletes

Tennis Fans

9 + 5 = 14
athletes playing hockey are either
students or tennis fans but not both

**Questions 3:** In a certain code A%B means A is the brother of B, A&B means A is the mother of B, A@B means A is the daughter of B, A$B means A is the father of B, A#B means A is the sister of B.

If K $ Z % U & H # N @ T, how T is related to U?

    A. Sister
    B. Brother
    C. Husband
    D. Wife

K $ Z = K is the father of Z (1)
Z % U = Z is the brother of U (2)
U & H = U is the mother of H (3)
H # N = H is the sister of N (4)
N @ T = N is the daughter of T (5)

From statement 3, 4, and 5

As U is the mother of H, H is the sister of N and N is the daughter of T complies that U and T are sisters

**Questions 4:** Four friends A, B, C, and D have one of the four professions i.e., Doctor, architect, engineer, and lawyer. Each friend belongs to one of the four different cities, Chandigarh, Indore, Lucknow, and Pune. A is not a lawyer or engineer. The doctor is from Lucknow, D is an architect. The lawyer is from Pune. Well this was original creation of PrepInsta and was stolen. The engineer is neither from Chandigarh nor Pune. D is not from Pune. C is from Indore. Which of the following statement is correct about B?

    A. B is the lawyer and belongs to Chandigarh
    B. B is Doctor and belongs to Pune
    C. B is a doctor and belongs to Chandigarh
    D. B is a lawyer and belongs to Pune

**Solution:**
- A is not a lawyer or engineer
- The doctor is from Lucknow
- D is an architect
- The lawyer is from Pune
- The engineer is neither from Chandigarh nor Pune
- D is not from Pune
- C is from Indore

**Question 5:** The number of employees working in six different departments in two companies A and B are given below. Study the given data and answer the questions that follow.

**Company A**

| Departement | No of Employees |
| --- | --- |
| Marketing | 256 |
| HR | 72 |
| Production | 504 |
| Accounts | 68 |
| Operations | 256 |
| Planning | 46 |

| Total | 1202 |
|---|---|

**Company B**

| Departement | No of Employees |
|---|---|
| Marketing | 524 |
| HR | 108 |
| Production | 736 |
| Accounts | 122 |
| Operations | 146 |
| Planning | 58 |
| **Total** | **1694** |

What is the percentage difference between the employees working in the production department of company A and B.

    a. 3.21%
    b. 2.27%
    c. 1.52%
    d. 1.15%

Solution:

**Question 6 -**If both company A and B merge together to form company C,then what is the percentage of marketing and accounting employees in total employees of company C?

    a. 33.49%
    b. 37.59

**Question 7 :**Select the most appropriate option to fill in the blank.
The final report on the project was_____into three parts.

    a. Broken out

b. Broken off
c. Broken up
d. Broken away

Answer:

**Question 8 :**A statement is followed by two assumptions numbered I and II.Consider the statement and decide which of the given assumption(s) is/are implicit in the statement.

**Statement**-
Various government accross the world have issued strict guidelines for the public to wear masks and wash hands regularly to safeguard their health during covid-19 pandemic.

**Assumptions**-
I.     Covid-19 Pandemic is serious health issue.
II.    There are ways by which people can save themselves from Covid-19 pandemic.

**Options**-
a. Neither I nor II is implicit
b. Both I and II are implicit
c. Only II is implicit
d. Only I is implicit

**Answer-**Both I and II are implicit

**Question 9** . What is the wrong number in the following series?
CMQ , FPT , JTX ,OYC , UFI

a.OYC
b.JTX
C.FPT
d.UFI

Solution:- UFI is the wrong number in the series.
Lets take CMQ
Difference between letter C and Letter M is 10 and difference between M and Q is 3 ..same with OYC , JTX,FPT
But not with UFI

**Question 10** :- In a certain code , K*N means K is the brother of N , K+N means K is the husband of N, K x N means K is the mother of N and K ÷ N means K is the sister of N , then which of the following expressions means C is the daughter of Y.?

a.  Y + R x C * H ÷ V
b.  Y + R x H  ÷ C *V
c.  Y + R x H * C ÷ V
d.  Y x R + H * C ÷ V

Solution:-

**Question 11**:- Given below is a question followed by two statements , I and II, each containing some information. Decide which of the statement(s) is/ are sufficient to answer the question.

How is A related to C?

Statements:-
a.  A is the wife of B and B is the brother of C.
b.  C is the son of D

1.  Statement I alone is sufficient.
2.  Statement II is sufficient.
3.  Both I and II together are sufficient
4.  Both I and II together are not sufficient.

Solution:- Statement I alone is sufficient.

**Question 12** :- Four Statements are followed by four conclusion numbered conclusions(s) logically follows/follow from the statements.

Statements.
A.  All vegetables are fruit.
B.  No Carrot is fruit.
C.  Some roots are carrot
D.  All roots are eatables

Conclusion

I.    Some fruits are eatables.
II.   No root is vegetable
III.  Some eatables are carrot
IV.  Some roots are vegetables

●  Only III and IV follow.
●  Only I and either II or IV follow
●  Only III and either II or IV follow
●  Only II , III and IV follow

**Programming Logic**

**Question 1-** What will be the output

```
public class Main {
public static void main(String[] args)
{
        int $ = 5;
}
}
```

1. Nothing will print
2. Symbol not found Error.
3. Runtime Error
4. Compile time error

**Answer- 1.Nothing will print**

**Question 2-**
```
class Main
{
    public static void main(String args[])
    {
```

```
    int i,j,x=0;
    for(i=0;i<5;i++)
        for (j=0;j<5;j++){
            x=(i+j-1);
             System.out.print(x);
             break;
            }
       System.out.print(x);
    }
 }
```

What will be printed when the above sample code is executed.
Enter your answer ONLY as a NUMERAL, in the box.

**Answer- -101233**

**Question 3-** Which of the following options best suits for 'Memory Leak Occurred'
1. Resource allocation pending while debugging the code
2. Program releases resources allocated in the memory
3. Program does not free the memory which is allocated dynamically
4. Occurs due to address assignment failure.

**Answer- Program does not free the memory which is allocated dynamically.**

**Question 4-** What among the following is a server based paradigm
1. Request for Information(RFI)
2. Data Validation Routine
3. Cloud computing
4. Total cost of Ownership.

**Answer- Request for information**

**Question 5-** When we declare constant pointer to integer, we CANNOT change:

1. Value pointed by pointer
2. Either addressing pointer variable or value at that address
3. Changes are not permitted
4. Address in pointer variable.

**Answer- Address in the pointer variable.**

**Question 6-** Given here is a scenario. Consider the graph algorithm and answer the given question.
John wants to go to different locations of the city in which he is. He has listed all of them down. However he wants to visit one location before visiting some other location. What application of graphs can he use to determine that location?
1. DFS
2. Dijsktra's
3. BFS
4. Topological Sorting

**Answer- Dijkstra's**

**Question 7 -** Find Prefix and Postfix for the below Infix problem statement:
1. Prefix Expression: 11 20 5 20 15 - 6 5 ^^ * / +
    Postfix Expression: + 11 / 20 * 5 ^^ - 20 15 6 5
2. Prefix Expression: + 11 / 20 * 5 ^^ - 20 15 6 5
    Postfix Expression: 11 20 5 20 15 - 6 5 ^^ * / +
3. Prefix Expression: 11 20 15 20 5 - ^^ * 6 5 / +
    Postfix Expression: + 20 / 11 * 5 - 20 ^^ 15 6 5
4. Prefix Expression: 11 20 5 20 15 - ^^ * / + 6 5
    Postfix Expression: + 11 / ^^ - 20 * 5 20 15 6 5

**Question 8 -** There are two integer numbers X and Y, and the value of X and Y is in between 0 to 25. User stores the value under 5 bit number. How many minimum bit is required to store the result of the below expression?
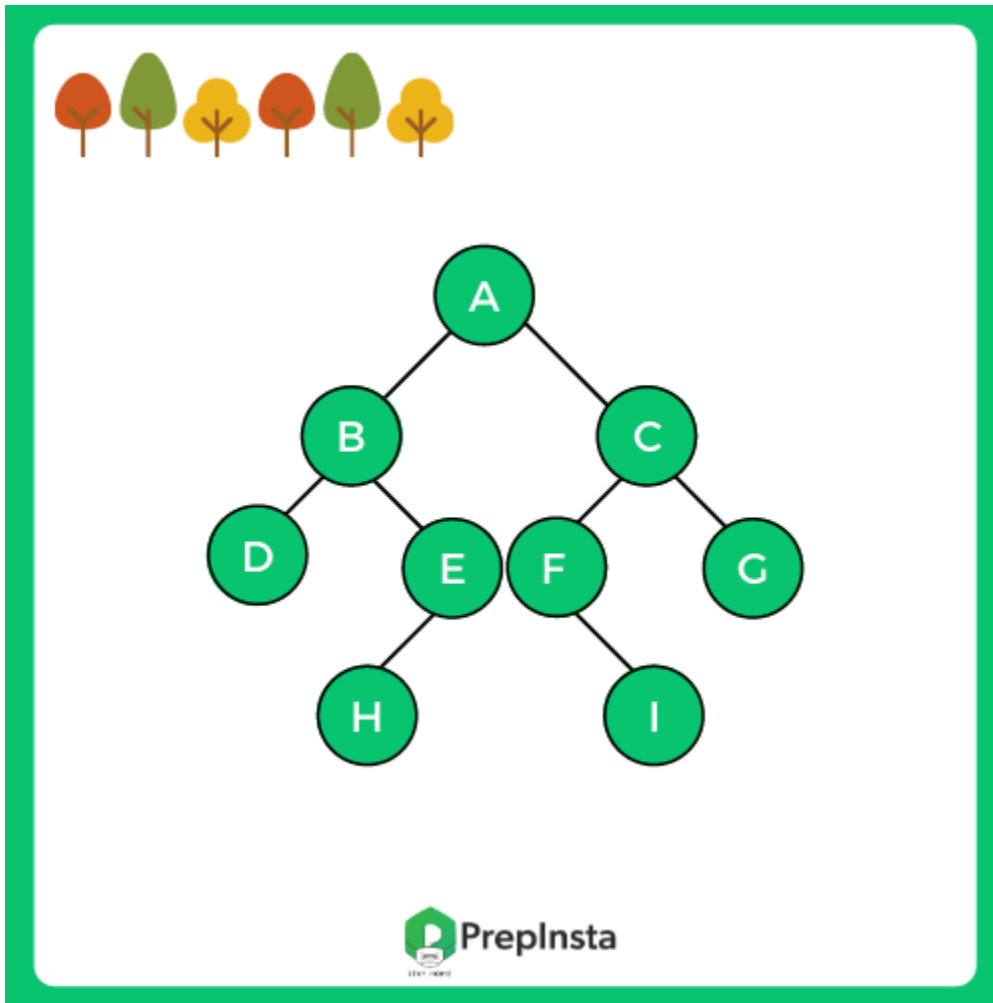
Res = 3*(X-Y)

1. 7
2. 5
3. 8
4. 6

**Answer-**

**Question 9-** Write the name of library of functions which is used to perform arithmetic operations on BigInteger and BigDecimal

**Answer- MathContext**

**This question in TCS NQT was wrong. Incorrect options were given ….**

**Question 10 - Consider the following tree what will be the preorder traversal.**

1. A B C D E F G H I
2. D H E B I F G C A
3. H I D E F G B C A
4. D H E B A F I G C

**Answer- ABDEHCFIG**

**Coding**

# Coding Question 1 (Slot - 1)

There is a JAR full of candies for sale at a mall counter. JAR has the capacity N, that is JAR can contain maximum N candies when JAR is full. At any point of time. JAR can have M number of Candies where M<=N. Candies are served to the customers. JAR is never remain empty as when last k candies are left. JAR if refilled with new candies in such a way that JAR get full.

Write a code to implement above scenario. Display JAR at counter with available number of candies. Input should be the number of candies one customer can order at point of time. Update the JAR after each purchase and display JAR at Counter.

Output should give number of Candies sold and updated number of Candies in JAR.

If Input is more than candies in JAR, return: "INVALID INPUT"

**Given,**

N=10, where N is NUMBER OF CANDIES AVAILABLE

K =< 5, where k is number of minimum candies that must be inside JAR ever.

**Example 1:(N = 10, k =< 5)**

**Input Value**

3

**Output Value**

NUMBER OF CANDIES SOLD : 3

NUMBER OF CANDIES AVAILABLE : 7

**Example : (N=10, k<=5)**

**Input Value**

0

**Output Value**

INVALID INPUT

NUMBER OF CANDIES LEFT : 10

**Solution in C**

```c
#include <stdio.h>
int main()
{
    int n=10, k=5;
    int num;
    scanf("%d",&num);
    if(num>=1 && num<=5)
    {
        printf("NUMBER OF CANDIES SOLD : %d\n",num);
        printf("NUMBER OF CANDIES LEFT : %d",n-num);
    }
    else
    {
        printf("INVALID INPUT\n");
        printf("NUMBER OF CANDIES LEFT : %d",n);
    }
    return 0;
}
```

**Solution in C++**

```cpp
#include <iostream>
using namespace std;
int main()
{
    int n=10, k=5;
    int num;
    cin>>num;
    if(num>=1 && num<=5)
```

```
    {
    cout<<"NUMBER OF CANDIES SOLD : "<<num<<"\n";
    cout<<"NUMBER OF CANDIES LEFT : "<<n-num;
    }
    else
    {
    cout<<"INVALID INPUT\n";
    cout<<"NUMBER OF CANDIES LEFT : "<<n;
    }
    return 0;
}
```

## Solution in Java

```java
import java.util.Scanner;

class Main{
    public static void main(String[] args) {
       int n = 10, k = 5;
       int num;
       Scanner sc = new Scanner(System.in);
       num = sc.nextInt();
       if(num >= 1 && num <= 5) {
            System.out.println("NUMBER OF CANDIES SOLD : " + num);
            System.out.print("NUMBER OF CANDIES LEFT : " + (n - num));
       } else {
            System.out.println("INVALID INPUT");
            System.out.print("NUMBER OF CANDIES LEFT : " + n);
       }
    }
}
```

# Coding Question 2 (Slot - 1)

**Selection of MPCS exams include a fitness test which is conducted on ground. There will be a batch of 3 trainees, appearing for running test in track for 3 rounds.**

**You need to record their oxygen level after every round. After trainee are finished with all rounds, calculate for each trainee his average oxygen level over the 3 rounds and select one with highest oxygen level as the most fit trainee. If more than one trainee attains the same highest average level, they all need to be selected.**

**Display the most fit trainee (or trainees) and the highest average oxygen level.**

**Note:**

1. **The oxygen value entered should not be accepted if it is not in the range between 1 and 100.**
2. **If the calculated maximum average oxygen value of trainees is below 70 then declare the trainees as unfit with meaningful message as "All trainees are unfit"**
3. **Average Oxygen Values should be rounded.**

**Example 1:**

**INPUT VALUES**
95
92
95
92
90
92
90
92

**OUTPUT VALUES**

Trainee Number : 1

Trainee Number : 3

**Note:**

Input should be 9 integer values representing oxygen levels entered in order as

Round 1

Oxygen value of trainee 1

Oxygen value of trainee 2

Oxygen value of trainee 3

Round 2

Oxygen value of trainee 1

Oxygen value of trainee 2

Oxygen value of trainee 3

Round 3

Oxygen value of trainee 1

Oxygen value of trainee 2

Oxygen value of trainee 3

**Output must be in given format as in above example. For any wrong input final output should display "INVALID INPUT"**

**Solution in C**

```c
#include <stdio.h>
int main()
{
    int trainee[3][3];
```

```c
int average[3] = {0};
int i, j, max=0;
for(i=0; i<3; i++)
{
    for(j=0; j<3; j++)
    {
            scanf("%d", &trainee[i][j]);
            if(trainee[i][j]<1 || trainee[i][j]>100)
            {
                trainee[i][j] = 0;
            }
    }
}
for(i=0; i<3; i++)
{
    for(j=0; j<3; j++)
    {
            average[i] = average[i] + trainee[j][i];
    }
    average[i] = average[i] / 3;
}
for(i=0; i<3; i++)
{
    if(average[i]>max)
    {
            max = average[i];
    }
}
for(i=0; i<3; i++)
{
    if(average[i]==max)
    {
            printf("Trainee Number : %d\n",i+1);
    }
    if(average[i]<=70)
```

```
                {
                        printf("Trainee is Unfit");
                }
        }
        return 0;
}
```

**Solution in C++:**

```cpp
#include <iostream>
using namespace std;
int main()
{
    int trainee[3][3];
    int average[3] = {0};
    int i, j, max=0;
    for(i=0; i<3; i++)
    {
        for(j=0; j<3; j++)
        {
                cin>>trainee[i][j];
                if(trainee[i][j]<1 || trainee[i][j]>100)
                {
                    trainee[i][j] = 0;
                }
        }
    }
    for(i=0; i<3; i++)
    {
        for(j=0; j<3; j++)
        {
                average[i] = average[i] + trainee[j][i];
        }
        average[i] = average[i] / 3;
    }
    for(i=0; i<3; i++)
```

```
        {
            if(average[i]>max)
            {
                    max = average[i];
            }
        }
        for(i=0;  i<3;  i++)
        {
            if(average[i]==max)
            {
                    cout<<"Trainee Number : "<<i+1<<"\n";
            }
            if(average[i]<=70)
            {
                    cout<<"Trainee is Unfit";
            }
        }
        return 0;
}
```

**Solution in Java:**

```java
import java.util.Scanner;

class Main {
    public static void main(String[] args) {
      int[][] trainee = new int[3][3];
      int[] average = new int[3];
      int max = 0;
      Scanner sc = new Scanner(System.in);
      for(int i = 0; i < 3; i++) {
          for(int j = 0; j < 3; j++) {
              trainee[i][j] = sc.nextInt();
              if(trainee[i][j] < 1 || trainee[i][j] > 100) {
                  trainee[i][j] = 0;
```

```
                }
            }
        }
    for(int i = 0; i < 3; i++) {
        for(int j = 0; j < 3; j++) {
            average[i] = average[i] + trainee[j][i];
        }
        average[i] = average[i] / 3;
    }
    for(int i = 0; i < 3; i++) {
        if(average[i] > max) {
            max = average[i];
        }
    }
    for(int i = 0; i < 3; i++) {
        if(average[i] == max) {
            System.out.println("Trainee  Number  :  " + (i +
1));
        }
        if(average[i] <= 70) {
            System.out.print("Trainee is Unfit");
        }
    }
  }

}
```

# 24th October slot 2

## Numerical Ability

Will be added soon

## Verbal Ability

Will be added soon

## Logical Ability

Will be added soon

## Programming Logic

Will be added soon

## Coding

Will be added soon