

**Q1** In a certain code language, 'JAIL' is coded as '304', 'LAWN' is coded as '232'. What is the code for 'NAVY' in that code language?

- (A) 312 (B) 184  
(C) 288 (D) 172

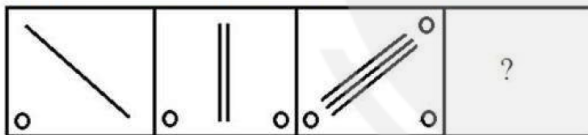
**Q2** Find the missing letters in the following series?  
CYY, GXT, EVW, ISR, ?

- (A) GUO (B) OGU  
(C) GOU (D) GUP

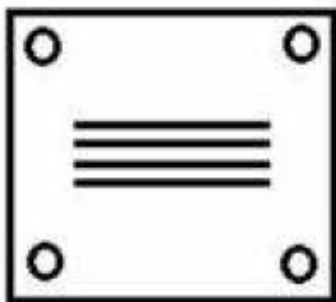
**Q3** If  $A \times B$  means that A is the father of B,  $A - B$  means that A is the mother of B,  $A + B$  means that A is the brother of B then which of the following expression shows that P is the son of Q?

- (A)  $P \times Q + R$   
(B)  $Q \times P + R$   
(C)  $P + R \times Q$   
(D)  $P \times Q - R$

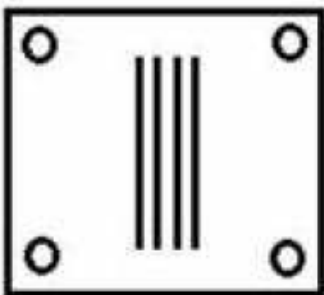
**Q4** Select the figure that will come next in the following series.



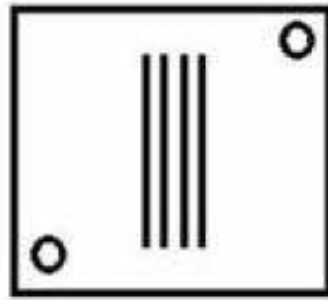
(A)



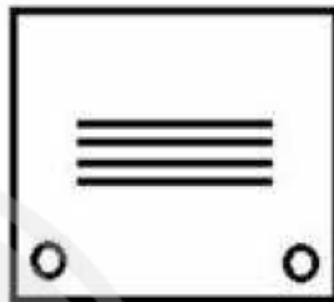
(B)



(C)



(D)



**Q5** Select the correct combination of mathematical signs to replace the \* signs and to balance the given equation.

$$14 * 11 * 22 * 56 * 8$$

- (A) +, -, =,  $\times$   
(B) -,  $\times$ , =, +  
(C) +, +, =, -  
(D)  $\times$ ,  $\div$ , =,  $\div$

**Q6** In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.  
Statements:

- I. Some boy are human.  
II. All human are hard.

Conclusion:

- I. Some hard are not boy.  
II. Some human are not boy.  
III. No hard is human.

- (A) Both conclusions I and III follows  
(B) Both conclusions II and III follows



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- (C) Only conclusion I follows  
 (D) Neither conclusion follows

**Q7** A is 2 years older to B. B is 5 years younger to C. C is 3 years older to D. D is 6 years younger to E. Who is the youngest?


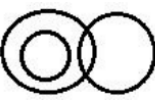

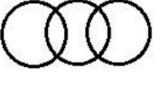
- (A) A (B) B  
 (C) C (D) D

**Q8** Four pairs of numbers have been given out of which three are alike in some manner, while one is different. Choose the odd one.

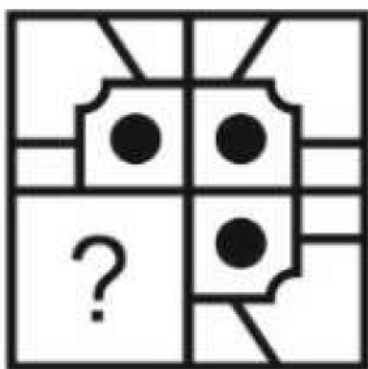
- (A) 720 (B) 980  
 (C) 504 (D) 4896

**Q9** Select the Venn diagram that best illustrates the relationship between the following classes.

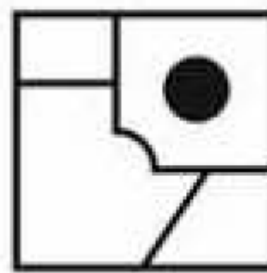
Infants, Fathers, Males

- (A)   
 (B)   
 (C)   
 (D) 

**Q10** Which answer figure will complete the pattern in the question figure?



(A)



(B)



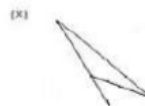
(C)



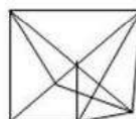
(D)



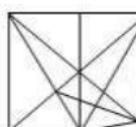
**Q11** Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).



(A)



(B)



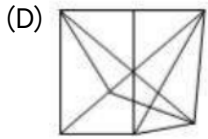
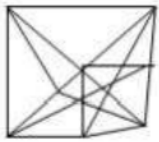
(C)



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**Q12** Arrange the following words in the order in which they appear in an English dictionary.

- 1.Meticulous
- 2.Metric
- 3.Method
- 4.Mettle
- 5.Meter

- (A) 5,3,1,4,2                      (B) 3,4,5,1,2  
(C) 5,3,1,2,4                      (D) 5,1,3,2,4

**Q13** Richa walks 25 km towards west. She turns right and walks 35 km. She turns right and walks 40 km. She turns right and walks 35 km. How far (in km) is she from her starting point?

- (A) 15 km                      (B) 10 km  
(C) 65 km                      (D) 5 km

**Q14** Study the given pattern carefully and select the number that can replace the question mark (?) in it.

|    |     |    |
|----|-----|----|
| 23 | 32  | 16 |
| 3  | 4   | 5  |
| 72 | 132 | ?  |

- (A) 85                      (B) 80  
(C) 88                      (D) 162

**Q15** In a certain code language, 'match is over' is written as 'en jo hi', 'the cricket match' is written as 'lu mo en', and 'over the globe' is written as 'hi lu nok'. How will 'cricket' be written in that language?

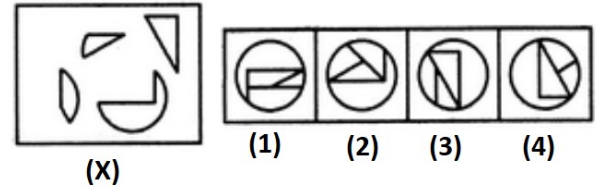
- (A) mo                      (B) hi  
(C) nok                      (D) jo

**Q16**

Select the odd letters from the given alternatives.

- (A) ADG                      (B) HKN  
(C) ORU                      (D) BDF

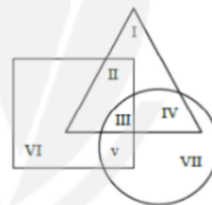
**Q17** Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



- (A) 1                      (B) 2  
(C) 3                      (D) 4

**Q18** In the given diagram, the triangle represents the set of people who possess a car; the square represents the set of people who possess a house; and the circle represents the set of people who possess gold.

What is the total number of people who possess a house and gold but do not have a car?



- (A) V                      (B) V+VI  
(C) V+III                      (D) V+VII

**Q19** Words given on the left side of (::) are related with each other by some Logic/Rule /Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation.

Cockpit : Aeroplane :: ?

- (A) Student : Class  
(B) House : Room  
(C) Pencil : Lead  
(D) Bicycle : Pedal

**Q20** Which number will replace the question mark (?) in the following series?



58,59,51,78,14, ?

- (A) 97 (B) 139  
(C) 163 (D) 83

**Q21** Find the angles between Hour and Minute Hand at 11:20?

- (A)  $200^\circ$  (B)  $220^\circ$   
(C)  $110^\circ$  (D)  $95^\circ$

**Q22** In the question four words are given of which three are alike in some way, and one is different, find the odd one out?

- (A) Jawaharlal Nehru  
(B) Manmohan Singh  
(C) Narendra Modi  
(D) Zail Singh

**Q23** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All ministers are politicians.

All pilots are ministers.

No engineer is a politician.

Conclusions:

I. Some ministers are pilots.

II. No engineer is a minister.

III. No engineer is a pilot.

- (A) Only conclusions I and II follow  
(B) Only conclusions II and III follow  
(C) Only conclusions I and III follow  
(D) All the conclusions follow

**Q24** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(3, 14, 1)

(4, 36, 2)

(A) (8, 12, 2)

(B) (5, 81, 4)

(C) (7, 40, 3)

(D) (8, 260, 2)

**Q25** In a certain code language, 'GLAND' is written as 'GQDOJ' and 'MEANS' is written as 'VQDHP'. How will 'CYSTS' be written in that language?

(A) VWVCF

(B) FBVWV

(C) UVUAE

(D) VWVBF



## Answer Key

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Q1 (B)  
Q2 (C)  
Q3 (B)  
Q4 (A)  
Q5 (D)  
Q6 (D)  
Q7 (B)  
Q8 (B)  
Q9 (B)  
Q10 (A)  
Q11 (B)  
Q12 (C)  
Q13 (A)

Q14 (A)  
Q15 (A)  
Q16 (D)  
Q17 (C)  
Q18 (A)  
Q19 (A)  
Q20 (B)  
Q21 (B)  
Q22 (D)  
Q23 (D)  
Q24 (D)  
Q25 (D)

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## Hints & Solutions

### Q1 Text Solution:

Here, we have been given a word with its code with a logic and we have to find another word code using the same logic.

JAIL : 304

|    |    |    |    |                       |
|----|----|----|----|-----------------------|
| J  | A  | I  | L  |                       |
|    |    |    |    | Opposite              |
| Q  | Z  | R  | O  |                       |
| 17 | 26 | 18 | 15 | $= 76 \times 4 = 304$ |

LAWN : 232

|    |    |   |    |                       |
|----|----|---|----|-----------------------|
| L  | A  | W | N  |                       |
|    |    |   |    | Opposite              |
| O  | Z  | D | M  |                       |
| 15 | 26 | 4 | 13 | $= 58 \times 4 = 232$ |

Similarly,

NAVY : ?

|    |    |   |   |                       |
|----|----|---|---|-----------------------|
| N  | A  | V | Y |                       |
|    |    |   |   | Opposite              |
| M  | Z  | E | B |                       |
| 13 | 26 | 5 | 2 | $= 46 \times 4 = 184$ |

Hence, "184" is the correct answer.

### Q2 Text Solution:

According to the question:

|   |                    |   |                    |   |                    |   |                    |   |
|---|--------------------|---|--------------------|---|--------------------|---|--------------------|---|
| C | $\xrightarrow{+4}$ | G | $\xrightarrow{-2}$ | E | $\xrightarrow{+4}$ | I | $\xrightarrow{-2}$ | G |
| Y | $\xrightarrow{-1}$ | X | $\xrightarrow{-2}$ | V | $\xrightarrow{-3}$ | S | $\xrightarrow{-4}$ | O |
| Y | $\xrightarrow{-5}$ | T | $\xrightarrow{+3}$ | W | $\xrightarrow{-5}$ | R | $\xrightarrow{+3}$ | U |

Hence, GOU is the correct answer.

### Q3 Text Solution:

The correct answer is (B) **Q x P + R**.

To solve this problem, we need to break down the given expression into its individual components.

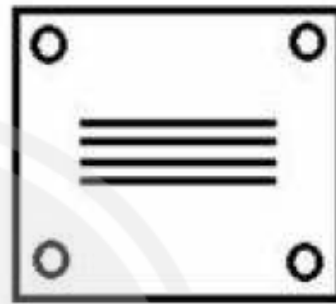
**Q x P** means that Q is the father of P. **+ R** means that P is the brother of R.

Therefore, **Q x P + R** means that P is the son of Q and P is the brother of R, which makes P the son of Q.

The other answer choices do not result in the correct relationship between P and Q.

### Q4 Text Solution:

According to this question



Option A is correct

### Q5 Text Solution:

In this question, we have to solve the equation by putting suitable mathematical signs in place of \* in the given equation.

Given equation:-

$$14 * 11 * 22 * 56 * 8$$

On checking the given options:-

- Option (+, -, =, x)

On replacing \* with the given symbols in the equation

$$14 + 11 - 22 = 56 \times 8$$

$$25 - 22 = 448$$

$$3 \neq 448$$

- Option (-, x, =, +)

On replacing \* with the given symbols in the equation

$$14 - 11 \times 22 = 56 + 8$$

$$14 - 242 = 64$$

$$- 228 \neq 64$$

- Option (+, +, =, -)



On replacing \* with the given symbols in the equation

$$14 + 11 + 22 = 56 - 8$$

$$47 \neq 48$$

- Option ( $\times, \div, =, \neq$ )

Replacing \* with the given signs in the equation

$$14 \times 11 \div 22 = 56 \div 8$$

$$14 \div 2 = 7$$

$$7 = 7$$

Hence ( $\times, \div, =, \neq$ ) is the correct answer.

#### Q6 Text Solution:

- Here, we have to conclude which conclusion is true according to given statement.

Statements:

I. Some boy are human.

II. All human are hard.

Conclusion:

I. Some hard are not boy.

II. Some human are not boy.

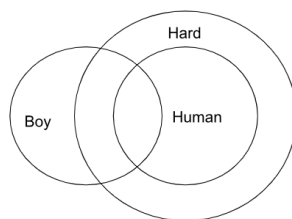
III. No hard is human.

- Given Statements:

I. Some boy are human.

II. All human are hard.

According to given statement



Conclusion:

I. Some hard are not boy - False because some hard is boy.

II. Some human are not boy - False Because some human are boys.

III. No hard is human - False because all human is hard.

Therefore, neither conclusion follows.

Hence, Neither conclusion is the correct answer.

#### Q7 Text Solution:

According to the question :

We have been given that A is 2 years older to B. B is 5 years younger to C. C is 3 years older to D. D is 6 years younger to E. We have to find the youngest one.

Let the age of E be x years.

Then the age of D = (x - 6) years.

The age of C = (x - 6) + 3 = (x - 3) years.

The age of B = (x - 3) - 5 = (x - 8) years

The age of A = (x - 8) + 2 = (x - 6) years

- Thus, the arrangement is as follows:

$$E > C > A = D > B$$

- So, B is the youngest among all.

Hence, "B" is the correct answer.

#### Q8 Text Solution:

The pattern is as follows:

$$\Rightarrow (9)^3 - 9 = 720$$

$$\Rightarrow (8)^3 - 8 = 504$$

$$\Rightarrow (17)^3 - 17 = 4896$$

$$\Rightarrow (10)^3 - 10 = 990 \neq 980 \text{ (odd one)}$$

Hence, 980 is the correct answer.

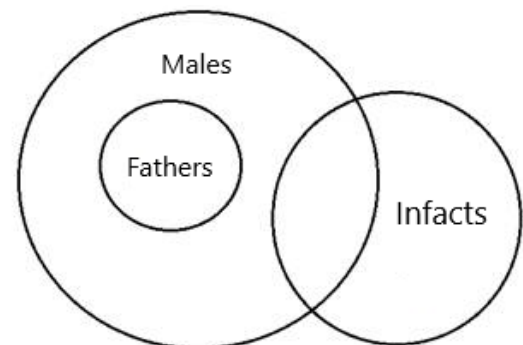
#### Q9 Text Solution:

All fathers are males.

A newborn baby is called as an Infant. It can be boy or girl.

So, infants can be either male or female.

The best representation is:



Hence, "option B" is the correct answer.

#### Q10 Text Solution:

Here we are given an incomplete figure and we have to find the figure out of four alternatives,



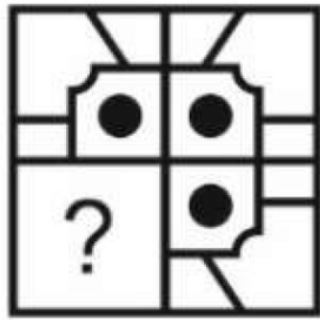
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which when placed in the blank space (?) of the figure will complete the pattern.

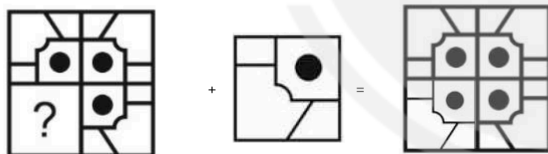


Given Figure:-

The logic used is:-

- We need a square here with an arc in the left corner, a black shaded circle inside the square and a horizontal line should be attached to this square on the left and a slant line should be attached to this square at the bottom, Two such lines will be needed.
- When we replace this figure with a question mark then the given figure will be complete.

Thus the complete pattern of the given figure is given below;



Hence, is the correct answer.

#### Q11 Text Solution:

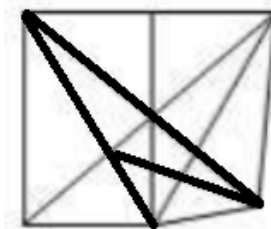
According to the question :

We have been given a figure in the question which is embedded in one of the given optional answer figures . We have to identify the figure in which the given question figure is embedded ( rotation is not allowed ) .

The given figure is :



The figure in which the question figure is embedded is ( embedded part shown by darker lines ) :



Hence , "Option B" is the correct answer.

#### Q12 Text Solution:

The logical order of words in which they appear in an English dictionary:

- 5) **Meter**
- 3) **Method**
- 1) **Meticulous**
- 2) **Metric**
- 4) **Mettle**

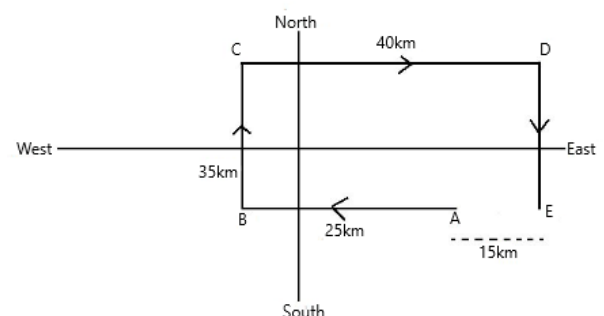
Hence, **5, 3, 1, 2, 4** is the correct answer.

#### Q13 Text Solution:

Here, in this question we have to find that, How far (in km) is she from her starting point.

According to the question.

**Given:-** Richa walks 25 km towards west. She turns right and walks 35 km. She turns right and walks 40 km. She turns right and walks 35 km.



Required distance = CD - AB  
= 40km - 25km = 15km

Clearly, she is 15 km far from her starting point.

**Hence, the correct answer is 15 km.**



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**Q14 Text Solution:**

In this question we have to find out which number given in the option will replace the question mark.

**Logic: In column  $\rightarrow$  (First number  $\times$  Second number) + Second number = Third number**

The pattern is as follows:

- Column I  $\Rightarrow$  23, 3, 72

$$(23 \times 3) + 3 = 69 + 3 = 72$$

- Column II  $\Rightarrow$  32, 4, 132

$$(32 \times 4) + 4 = 128 + 4 = 132$$

Similarly,

- Column III  $\Rightarrow$  16, 5, ?

$$(16 \times 5) + 5 = 80 + 5 = 85$$

Hence, "85" is the correct answer.

**Q15 Text Solution:**

Here, in the given question we have to find out how will 'cricket' be written in the same language as 'match is over' is written as 'en jo hi', 'the cricket match' is written as 'lu mo en', and 'over the globe' is written as 'hi lu nok'.

According to the given instructions:-

- 1(match) is over = 1(en) jo hi
- 2(the) cricket 1(match) = 2(lu) mo 1(en)
- over 2(the) globe = hi 2(lu) nok

|         |       |     |         |
|---------|-------|-----|---------|
| word    | match | the | cricket |
|         | h     |     | t       |
| meaning | en    | lu  | mo      |

So, Cricket is written as 'mo' in that language.

Hence, 'mo' is the correct answer.

**Q16 Text Solution:**

According to the question :

We have given four alternatives, among which three are similar with some logic and one of them is odd one.

We have to identify the odd one out.

Logic :

place value of first letter + 3 ranks = place value of second letter

place value of second letter + 3 ranks = place value of third letter

- ADG

$$A + 3 = 1 + 3 = 4 = D$$

$$D + 3 = 4 + 3 = 7 = G$$

- HKN

$$H + 3 = 8 + 3 = 11 = K$$

$$K + 3 = 11 + 3 = 14 = N$$

- ORU

$$O + 3 = 15 + 3 = 18 = R$$

$$R + 3 = 18 + 3 = 21 = U$$

- BDF

$$B + 2 = 2 + 2 = 4 = D$$

$$D + 2 = 4 + 2 = 6 = F$$

Here is the difference of 2 not 3.

So, **BDF is the odd letter term**.

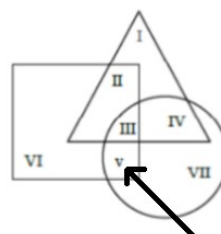
Hence, "BDF" is the correct answer.

**Q17 Text Solution:**

From the figure X we can form a figure which is given in figure(3),



Hence, **option(C)** is the correct answer.

**Q18 Text Solution:**

Total number of people who possess a house and gold but do not have a car is shown by arrow in above figure.

We can say that, the total number of people who possess a house and gold but do not have a car is 'V'



Hence, **V** is the correct answer.

**Q19 Text Solution:**

In this question we have to find another word pair which is similar to the given word pair.

Logic:-

Cockpit : Aeroplane

The relationship between the words "Cockpit" and "Aeroplane" is that the cockpit is a part of an aeroplane.

Let's check each option,

Student: Class

Student is a part of Class.

House: Room

House is not a part of Room. Infact, Room is a part of House. The order is incorrect.

Pencil: Lead

Pencil is not a part of Lead. Infact, Lead is a part of Pencil. The order is incorrect.

Bicycle: Pedal

Bicycle is not a part of Pedal. Infact, Pedal is a part of Bicycle. The order is incorrect.

Here, we can see that only 'Student: Class' follow the logic.

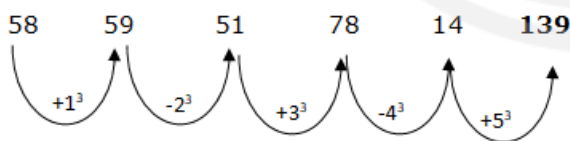
Hence, **"Student: Class"** is the correct answer.

**Q20 Text Solution:**

Given,

58, 59, 51, 78, 14, ?

The pattern followed here is:



Hence, **139** is the correct answer.

**Q21 Text Solution:**

Hour Hand:- 1 Hour = 30°

60 Minutes = 30°

1 Minute = 1/2°

Minute Hand:- 5 Minutes = 30°

1 Minute = 6°

\*( HH is hour hand and MH is minute hand )

HH:- 1H = 30°

11H = 30°×11 = 330°

From 11 to 11:20 it travels 20 minutes at 1/2°

Therefore, 20M×1/2° = 10°

Full angle of HH = 330°+10° = 340°

MH:- 1M = 6°

20M = 20M × 6°

= 120°

Now, angle between HH & MH = 340° - 120°

= 220°

Hence , **" 220° "** is the correct answer .

**Q22 Text Solution:**

- Jawaharlal Nehru, Manmohan Singh, and Narendra Modi are all former or current Prime Ministers of India.
- Zail Singh was the President of India.

**Conclusion:**

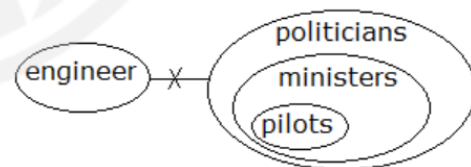
- The odd one out is Option D: Zail Singh, as he was the President of India, while the others were Prime Ministers.

Hence, Zail Singh is the correct answer.

**Q23 Text Solution:**

In the given question we are given two or three statements, according to those statements we have to make a Venn diagram and from that Venn diagram we have to check the conclusion which conclusion is true or false.

The minimum possible Venn diagram will be:



Conclusions:

- Some ministers are pilots – It is a definite case, hence true.
- No engineer is a minister - It is a definite case, hence true.
- No engineer is a pilot - It is a definite case, hence true.

Here, all conclusions follow.

Hence, **All the conclusions follow** is the correct answer.

**Q24 Text Solution:**



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Here, in the given question we have to find out the correct set in which the numbers are related in the same way as are the numbers of the following set.

The logic used is:- (cube of 1st number + cube of 3rd number)  $\div$  2 = 2nd number

- (3, 14, 1)

$$= \{ (3)^3 + (1)^3 \} \div 2 = 2\text{nd number}$$

$$= \{ 27 + 1 \} \div 2$$

$$= 28 \div 2$$

$$= 14$$

- (4, 36, 2)

$$= \{ (4)^3 + (2)^3 \} \div 2 = 2\text{nd number}$$

$$= \{ 64 + 8 \} \div 2$$

$$= 72 \div 2$$

$$= 36$$

Similarly,

- (8, 260, 2)

$$= \{ (8)^3 + (2)^3 \} \div 2 = 2\text{nd number}$$

$$= \{ 512 + 8 \} \div 2$$

$$= 520 \div 2$$

$$= 260$$

So, (8, 260, 2) is the correct set in which the numbers are related in the same way as are the numbers of the following set.

Hence, (8, 260, 2) is the correct answer.

#### Q25 Text Solution:

The pattern followed here :

Logic: Firstly all letters are written in reverse order from right to left and then 3 is added to all letters.

- 'GLAND' is written as 'GQDOJ'

GLAND - DNALG

DNALG - GQDOJ

D+3=G, N+3=Q, A+3=D, L+3=O, G+3=J

- 'MEANS' is written as 'VQDHP'.

MEANS - SNAEM

SNAEM - VQDHP

S+3=V, N+3=Q, A+3=D, E+3=H, M+3=P

- The code for 'CYSTS' will be:

CYSTS - STSYC

STSYC - ?

S+3=V, T+3=W, S+3=V, Y+3=B, C+3=F

The code for 'CYSTS' will be VWVBF.

Hence, VWVBF is the correct answer.



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