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Mains Answer Key

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## ANSWERS

1. Ans. A.

Age	Fruit	Person	Year
80	Banana	F	1938
59	Grapes	E	1959
56	Cherry	B	1962
35	Orange	A	1983
23	Mango	D	1995
18	Apple	C	2000

2. Ans. E.

Age	Fruit	Person	Year
80	Banana	F	1938
59	Grapes	E	1959
56	Cherry	B	1962
35	Orange	A	1983
23	Mango	D	1995
18	Apple	C	2000

3. Ans. D.

Age	Fruit	Person	Year
80	Banana	F	1938
59	Grapes	E	1959
56	Cherry	B	1962
35	Orange	A	1983
23	Mango	D	1995
18	Apple	C	2000

4. Ans. B.

Age	Fruit	Person	Year
80	Banana	F	1938
59	Grapes	E	1959
56	Cherry	B	1962
35	Orange	A	1983
23	Mango	D	1995
18	Apple	C	2000

5. Ans. D.

Age	Fruit	Person	Year
80	Banana	F	1938
59	Grapes	E	1959
56	Cherry	B	1962
35	Orange	A	1983
23	Mango	D	1995
18	Apple	C	2000

6. Ans. A.

Input: 261 312 297 504 117 424 519 218

Step 1: 86 157 98 253 38 213 172 110



Step 2: 243 59 351 215 251 41 282

Step 3: 9 14 9 8 8 5 12

Step 4: 5.5 6 5.5 3 3 3.5 5

Explanation:

Step 1: Odd number is divided by 3 and then subtract by 1. Even number is divided by 2 and then adds to 1.

Step 2: +, -, +, -, +, -, +

Step 3: Sum of the digits in each number.

Step 4: Even number is divided by 2 and subtract by 1 and odd number is divided by 2 and adds to 1.

7. Ans. C.

Input: 261 312 297 504 117 424 519 218

Step 1: 86 157 98 253 38 213 172 110



Step 2: 243 59 351 215 251 41 282

Step 3: 9 14 9 8 8 5 12

Step 4: 5.5 6 5.5 3 3 3.5 5

Explanation:

Step 1: Odd number is divided by 3 and then subtract by 1. Even number is divided by 2 and then adds to 1.

Step 2: +, -, +, -, +, -, +

Step 3: Sum of the digits in each number.

Step 4: Even number is divided by 2 and subtract by 1 and odd number is divided by 2 and adds to 1.

8. Ans. A.

Input: 261 312 297 504 117 424 519 218

Step 1: 86 157 98 253 38 213 172 110



Step 2: 243 59 351 215 251 41 282

Step 3: 9 14 9 8 8 5 12

Step 4: 5.5 6 5.5 3 3 3.5 5

Explanation:

Step 1: Odd number is divided by 3 and then subtract by 1. Even number is divided by 2 and then adds to 1.

Step 2: +, -, +, -, +, -, +

Step 3: Sum of the digits in each number.

Step 4: Even number is divided by 2 and subtract by 1 and odd number is divided by 2 and adds to 1.

9. Ans. B.

GOAT - AGOT - O

PEST - EPST - S

WATT - ATTW - T

ARMY - AMRY - R

Word - Sort

JUMP - JMPU - P

LIME - EILM - L

DUMB - BDMU - M

SOME - EMOS - O

No meaningful word

SAME - AEMS - M

ROOM - MOOR - O

BEST - BEST - S

AUTO - AOTU - T

Word - Most

PEST - EPST - S

VOTE - EOTV - T

FOOL - FLOO - O

PIPE - EIPP - P

Word - Stop

MALE - AELM - L

FIND - DFIN - I

LOST - LOST - S

THAT - AHTT - T

Word - List

10. Ans. C.

Step -1: \$ F 3 6 N @ K T Q 5 C % B # D  
S \* H 4 W L 7 8 9

Step- 2: \$ 3 F 6 N @ K T 5 Q C % B # D  
S \* H 4 W 7 L 9 8

Step -3: \$ 3 F 6 @ K T 5 Q % # D \* H B  
C N S 4 W 7 L 9 8

11. Ans. B.

Step -1: \$ F 3 6 N @ K T Q 5 C % B # D  
S \* H 4 W L 7 8 9

Step- 2: \$ 3 F 6 N @ K T 5 Q C % B # D  
S \* H 4 W 7 L 9 8

Step -3: \$ 3 F 6 @ K T 5 Q % # D \* H B  
C N S 4 W 7 L 9 8

12. Ans. C.

Step -1: \$ F 3 6 N @ K T Q 5 C % B # D  
S \* H 4 W L 7 8 9

Step- 2: \$ 3 F 6 N @ K T 5 Q C % B # D  
S \* H 4 W 7 L 9 8

Step -3: \$ 3 F 6 @ K T 5 Q % # D \* H B  
C N S 4 W 7 L 9 8

13. Ans. C.

Following the final solution we can say that Shiva is the one that does not belong to the group because of all the persons in the given options Shiva is the only person who lives in an even numbered flat.

Given:

Ground floor is numbered 1 and top floor is numbered 3 but not necessarily in the same order. There were three flats on each floor- flat-1, flat-2 and flat-3 from west to east such that flat-1 of third floor is exactly above flat-1 of second floor which is exactly above flat-1 of first floor and other flats are placed in the same way.

Conclusion:

Using the given information we can draw a rough map of the building:

	Flat 1	Flat 2	Flat 3
Floor 3			
Floor 2			
Floor 1			

Given:

Reema lives just above Antu in a flat numbered 3.

Bhola lives below Antu.

Conclusion:

Using the given hints we can determine the flat and floor number of Reema, Antu and Bhola.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1			Bhola

Given:

Pranav lives in an even numbered flat. Pranav does not live on the same floor on which Reema lives.

Conclusion:

At this point there are two possible

scenarios in which we can determine the flat and floor number of Pranav.

Case I:

Pranav lives in flat – 2 of floor – 1.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1		Pranav	Bhola

Case II:

Pranav lives in flat – 2 of floor – 2.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2		Pranav	Antu
Floor 1			Bhola

Given:

Rekha lives just above Naina.

Naina does not live on the same floor on which Antu lives.

Conclusion:

Here, we can use the above hints in both of our cases easily.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

Given:

Manoj lives left to Shiva.

Conclusion:

After using the above hints we can say that both Manoj and Shiva lives on floor 3, and in flat number 1 and 2 respectively.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

At this point we can complete the puzzle set by placing Preeti in each of the vacant flat in both of the cases.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Preeti	Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina	Preeti	Bhola

Here, we will consider both of the cases as the final solution of this puzzle set.

And solve the questions accordingly.

14. Ans. D.

Following the final solution we can say that either Preeti or Pranav lives between Rekha and Antu.

Given:

Ground floor is numbered 1 and top floor is numbered 3 but not necessarily in the same order. There were three flats on each floor- flat-1, flat-2 and flat-3 from west to east such that flat-1 of third floor is exactly above flat-1 of second floor which is exactly above flat-1 of first floor and other flats are placed in the same way.

Conclusion:

Using the given information we can draw a rough map of the building:

	Flat 1	Flat 2	Flat 3
Floor 3			
Floor 2			
Floor 1			

Given:

Reema lives just above Antu in a flat numbered 3.

Bhola lives below Antu.

Conclusion:

Using the given hints we can determine the flat and floor number of Reema, Antu and Bhola.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1			Bhola

Given:

Pranav lives in an even numbered flat. Pranav does not live on the same floor on which Reema lives.

Conclusion:

At this point there are two possible scenarios in which we can determine the flat and floor number of Pranav.

Case I:

Pranav lives in flat – 2 of floor – 1.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1		Pranav	Bhola

Case II:

Pranav lives in flat – 2 of floor – 2.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2		Pranav	Antu
Floor 1			Bhola

Given:

Rekha lives just above Naina.

Naina does not live on the same floor on which Antu lives.

Conclusion:

Here, we can use the above hints in both of our cases easily.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

Given:

Manoj lives left to Shiva.

Conclusion:

After using the above hints we can say that both Manoj and Shiva lives on floor 3, and in flat number 1 and 2

respectively.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

At this point we can complete the puzzle set by placing Preeti in each of the vacant flat in both of the cases.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Preeti	Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina	Preeti	Bhola

Here, we will consider both of the cases as the final solution of this puzzle set. And solve the questions accordingly.

15. Ans. A.

Following the final solution we can say that none of the persons live below Naina.

Given:

Ground floor is numbered 1 and top floor

is numbered 3 but not necessarily in the same order. There were three flats on each floor- flat-1, flat-2 and flat-3 from west to east such that flat-1 of third floor is exactly above flat-1 of second floor which is exactly above flat-1 of first floor and other flats are placed in the same way.

Conclusion:

Using the given information we can draw a rough map of the building:

	Flat 1	Flat 2	Flat 3
Floor 3			
Floor 2			
Floor 1			

Given:

Reema lives just above Antu in a flat numbered 3.

Bhola lives below Antu.

Conclusion:

Using the given hints we can determine the flat and floor number of Reema, Antu and Bhola.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1			Bhola

Given:

Pranav lives in an even numbered flat. Pranav does not live on the same floor on which Reema lives.

Conclusion:

At this point there are two possible scenarios in which we can determine the flat and floor number of Pranav.

Case I:

Pranav lives in flat – 2 of floor – 1.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1		Pranav	Bhola

Case II:

Pranav lives in flat – 2 of floor – 2.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2		Pranav	Antu
Floor 1			Bhola

Given:

Rekha lives just above Naina.

Naina does not live on the same floor on which Antu lives.

Conclusion:

Here, we can use the above hints in both of our cases easily.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

Given:

Manoj lives left to Shiva.

Conclusion:

After using the above hints we can say that both Manoj and Shiva lives on floor 3, and in flat number 1 and 2 respectively.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

At this point we can complete the puzzle set by placing Preeti in each of the vacant flat in both of the cases.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Preeti	Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina	Preeti	Bhola

Here, we will consider both of the cases as the final solution of this puzzle set. And solve the questions accordingly.

16. Ans. D.

Following the common explanation below, we can say that the combination 'Naina - Floor 1 - Flat 1' is definitely correct.

Option D is hence the correct answer.

Given:

Ground floor is numbered 1 and top floor is numbered 3 but not necessarily in the same order. There were three flats on each floor- flat-1, flat-2 and flat-3 from west to east such that flat-1 of third floor is exactly above flat-1 of second floor which is exactly above flat-1 of first floor and other flats are placed in the same way.

Conclusion:

Using the given information we can draw a rough map of the building:

	Flat 1	Flat 2	Flat 3
Floor 3			
Floor 2			
Floor 1			

Given:

Reema lives just above Antu in a flat numbered 3.

Bhola lives below Antu.

Conclusion:

Using the given hints we can determine the flat and floor number of Reema, Antu and Bhola.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1			Bhola

Given:

Pranav lives in an even numbered flat.

Pranav does not live on the same floor on which Reema lives.

Conclusion:

At this point there are two possible scenarios in which we can determine the flat and floor number of Pranav.

Case I:

Pranav lives in flat - 2 of floor - 1.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1		Pranav	Bhola

Case II:

Pranav lives in flat - 2 of floor - 2.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2		Pranav	Antu
Floor 1			Bhola

Given:

Rekha lives just above Naina.

Naina does not live on the same floor on which Antu lives.

Conclusion:

Here, we can use the above hints in both of our cases easily.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

Given:

Manoj lives left to Shiva.

Conclusion:

After using the above hints we can say that both Manoj and Shiva lives on floor 3, and in flat number 1 and 2 respectively.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

At this point we can complete the puzzle

set by placing Preeti in each of the vacant flat in both of the cases.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Preeti	Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina	Preeti	Bhola

Here, we will consider both of the cases as the final solution of this puzzle set. And solve the questions accordingly.

17. Ans. C.

Following the common explanation, we can observe that Bhola and Manoj are living in diagonally opposite flats.

Following the same logic, we can say that Reema is living in the diagonally opposite flat of Naina.

Given:

Ground floor is numbered 1 and top floor is numbered 3 but not necessarily in the same order. There were three flats on each floor- flat-1, flat-2 and flat-3 from west to east such that flat-1 of third floor is exactly above flat-1 of second floor which is exactly above flat-1 of first floor and other flats are placed in the same way.

Conclusion:

Using the given information we can draw a rough map of the building:

	Flat 1	Flat 2	Flat 3
Floor 3			
Floor 2			
Floor 1			

Given:

Reema lives just above Antu in a flat numbered 3.

Bhola lives below Antu.

Conclusion:

Using the given hints we can determine the flat and floor number of Reema, Antu and Bhola.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1			Bhola

Given:

Pranav lives in an even numbered flat. Pranav does not live on the same floor on which Reema lives.

Conclusion:

At this point there are two possible scenarios in which we can determine the flat and floor number of Pranav.

Case I:

Pranav lives in flat - 2 of floor - 1.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2			Antu
Floor 1		Pranav	Bhola

Case II:

Pranav lives in flat - 2 of floor - 2.

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2		Pranav	Antu
Floor 1			Bhola

Given:

Rekha lives just above Naina.

Naina does not live on the same floor on which Antu lives.

Conclusion:

Here, we can use the above hints in both

of our cases easily.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3			Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

Given:

Manoj lives left to Shiva.

Conclusion:

After using the above hints we can say that both Manoj and Shiva lives on floor 3, and in flat number 1 and 2 respectively.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha		Antu
Floor 1	Naina	Pranav	Bhola

Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina		Bhola

At this point we can complete the puzzle set by placing Preeti in each of the vacant flat in both of the cases.

Case I:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Preeti	Antu
Floor 1	Naina	Pranav	Bhola

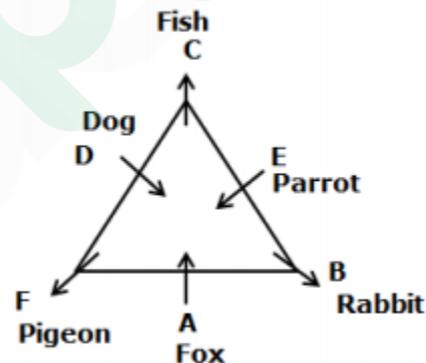
Case II:

	Flat 1	Flat 2	Flat 3
Floor 3	Manoj	Shiva	Reema
Floor 2	Rekha	Pranav	Antu
Floor 1	Naina	Preeti	Bhola

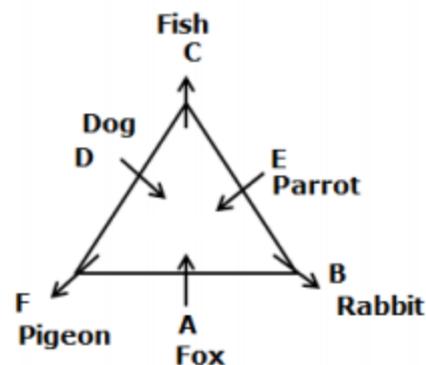
Here, we will consider both of the cases as the final solution of this puzzle set.

And solve the questions accordingly.

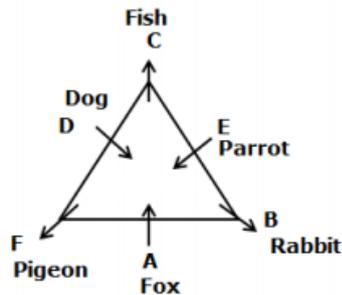
18. Ans. A.



19. Ans. A.



20. Ans. E.



21. Ans. C.

It is specifically mentioned in the passage that to produce meat, we need 15000 litres of water which is very high as compared to the quantity of water required to produce rice, eggs and potatoes. This results in a lot of wastage of water. Also, animals are raised in a cruel and artificial environment which affects their lives. Hence, third option i.e. 'Mass production of meat through industrial farming is undesirable and should be stopped immediately' is the correct answer.

22. Ans. B.

The above passage states the need of finance which is required to address climate change. Of all the assumptions provided, **only option C is the viable assumption.** It has been made because developing countries are the ones which are hit hardest by the climate change due to lack of finances and limited resources at their disposal. There should be some measures which would enable the countries to address this issue with the help of limited resources. Therefore, the second option is the correct answer.

23. Ans. C.

The correct answer is **option 3**, i.e.

**Both II and III follow.**

A course of action is something that needs to be done considering the present scenario in mind.

From the given statement, we can infer that a suitable course of action should be the course of action followed by the MSCI for proceeding with its new methodology or the action taken by India to stabilize its stocks. Course of action (I) can be rejected as it is not an action. It is the effect of the said proposal on the overall weight of India in the EM index.

Course of action (II) is a suitable course of action followed by MSCI to proceed with its said proposal.

Based on similar grounds, course of action (III) is also correct as it is in the same direction and highlights the action that will be followed by the MSCI to carry out the said proposal effectively.

Thus, all the course of actions except I are relevant and as a result the correct answer is option 3.

24. Ans. C.

India makes food security a major priority because of the state of hunger and malnutrition in the country. The system of PDS procures food grains from the farmers and stores them for future uses. The MSP which is paid to the farmers is more than the market price and the price at which the food grains are distributed to the consumers is lower than the market price. Now, the situation in the country is such that demands a well functioning PDS. Nevertheless, the membership of the WTO restricts India when it comes to subsidies. Thus, for India, food security and trade are closely linked.

25. Ans. E.

None of the assumptions follow. Assumption I is a rather generic statement that cannot be presumed from what is given. We have been clearly told that Thomas Laird spent a lot of time in the countryside by virtue of his travel across the Tibetan plateau. For the very reason, assumption III is also not implicit. The given statement tells us that he was searching for masterpieces that very few people had seen; from which we cannot assume that Thomas Laird felt the need to discover something new. And as for assumption II, nowhere does the statement give us information from where we can assume that Thomas Laird was absolutely certain that he was find the masterpieces.

26. Ans. B.

$$20 \neq 15 * 3 = m$$

$$\text{Or, } 20 + (15 \div C. = m \text{ (use rule (iii))}$$

$$\text{Or, } 20 + 5 = m$$

$$\text{Or, } m = 25$$

$$\text{Now, } m \% 28 \text{ } \pounds 2 = ?$$

$$\text{Or, } ? = 25\% 28 \text{ } \pounds 2 \text{ (Apply rule (i))}$$

$$= 25(28+B. = 25 \times 30 = 750$$

So answer is B..

27. Ans. A.

Given,  $14 \cap 30 \odot 4 = P$

Or,  $P = (30 - 14 \div 4)$  (use rule (ii))  
 $= 16 \div 4$

$P = 4$

Now,  $? = 16 \lambda P @ 2$

Or,  $? = 16 - (4 \times B)$  (Apply rule (iv))  
 $= 16 - 8 = 8$

28. Ans. D.

Given:  $12 \% 7 \text{ £ } 8 = q$

Apply rule (i)

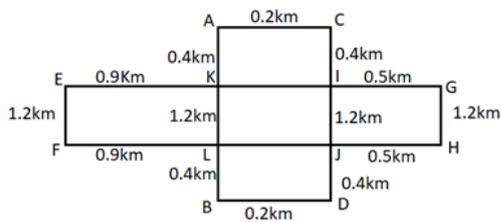
$q = 12 \times (7 + 8) = 12 \times 15 = 180$

Now,  $? = q \cap 216 \odot 12 = ?$

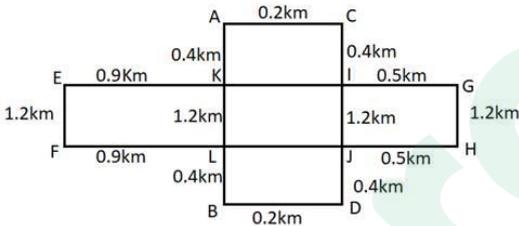
(Apply rule (ii))

$= (216 - 180) \div 12 = 36 \div 12 = 3$ , So answer is D..

29. Ans. E.



30. Ans. C.



31. Ans. A.

Given:

Six persons: M, N, O, P, Q and R stay on different floors of a six-storey building (ground floor is numbered as floor 1 and top floor is numbered as floor 6).

Different profession: Singer, Dancer, Physician, Teacher, Choreographer and Manager.

Floor	Person	Profession
6		
5		
4		
3		
2		
1		

According to Statement I:

1) N is neither a Teacher nor a Choreographer but stays on floor 6.

2) P is a Physician but stays neither on floor 2 nor on floor 5.

Floor	Person	Profession
6	N	Teacher, Choreographer
5	P	Physician
4		
3		
2	P	Physician
1		

3) The Manager stays either on floor 1 or on floor 4.

(Hence, there will be two possible cases)

4) Q doesn't stay on an odd-numbered floor.

**Case I**

Floor	Person	Profession
6	N	Teacher, Choreographer
5	P, Q	Physician
4		
3	Q	
2	P	Physician
1	Q	Manager

**Case II**

Floor	Person	Profession
6	N	Teacher, Choreographer
5	P, Q	Physician
4		Manager
3	Q	
2	P	Physician
1	Q	

Clearly, If R stays on floor 1, we can't define the profession of O.

Therefore, Statement I alone is not sufficient to answer the question.

According to Statement II:

1) M, who stays on floor 4, is a Teacher.

2) Q stays on floor 2.

3) The Choreographer doesn't stay below the floor of the Teacher but stays just below the floor of the Dancer.

Floor	Person	Profession
6		Dancer
5		Choreographer
4	M	Teacher
3		
2	Q	
1		

Clearly, If R stays on floor 1, we can't define the profession of O.  
 Therefore, Statement II alone is not sufficient to answer the question.  
 If we take Statements I and II together we get,  
 (Case II will be eliminated from Statement I and we can combine Statement II and Case I from Statement I)

Floor	Person	Profession
6	N	Teacher, Choreographer, Dancer
5	P, Q	Physician, Choreographer
4	M	Teacher
3	Q, P	Physician
2	P, Q	Physician
1	Q	Manager

Clearly, If R stays on floor 1, the profession of O is Choreographer.  
 Therefore, Statement I and II together are sufficient to answer the question.  
 32. Ans. A.

Given:

8 Students: M, N, O, P, Q, S, T and U.  
 Games: 3- Tennis, 3- Ludo, 2- Hockey.

1) The one who is the tallest doesn't play Hockey and the shortest doesn't play Tennis.

Students	Games
(Tallest)	Hockey
(Shortest)	Tennis

According to Statement I:

1) Q who doesn't play Tennis is taller than N and is the only shorter than the tallest.

(Hence, Q is the second tallest person)

2) U who is fourth the tallest person plays Ludo with P.

Students	Games
(Tallest)	Hockey
Q	Tennis
N	
U	Ludo
(Shortest)	Tennis

3) S is taller than M and P but shorter than U and N.

4) M is the shortest person.

(Hence there will be three possible cases)

**Case 1**

Students	Games
(Tallest)	Hockey
Q	Tennis
N	
U	Ludo
S	
P	Ludo
(Shortest)M	Tennis

**Case 2**

Students	Games
(Tallest)	Hockey
Q	Tennis
N	
U	Ludo
S	
P	Ludo
(Shortest)M	Tennis

**Case 3**

Students	Games
(Tallest)	Hockey
Q	Tennis
N	
U	Ludo
S	
P	Ludo
(Shortest)M	Tennis

Clearly, we can't define that who is the tallest person.

Hence, Statement I alone is not sufficient to answer the question.

According to statement II:

1) S is taller than M and P but shorter than among the four persons.

- 2) T is shorter than P but taller than M.  
 3) T neither plays Tennis nor Hockey.  
 (Hence, T plays Ludo)  
 4) N is the third tallest person and does not play hockey.

Students	Games
(Tallest)	Hockey
N	Hockey
S	
P	
T	Ludo
(Shortest)M	Tennis

Clearly, we can't define that who is the tallest person.  
 Hence, Statement II alone is not sufficient to answer the question.  
 If we take Statements I and II together we get,

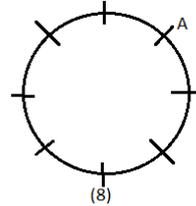
Students	Games
(Tallest) O	Hockey, Tennis
Q	Tennis, Hockey
N	Hockey, Tennis
U	Ludo
S	Tennis
P	Ludo
T	Ludo
(Shortest)M	Tennis, Hockey

Three of them play Tennis, three of them play Ludo while two of them play Hockey.  
 (Hence, O, N and S play Tennis and Q and M play Hockey)  
 Clearly, O is the tallest person.  
 Hence, Statement I and II together are sufficient to answer the question.  
 33. Ans. A.

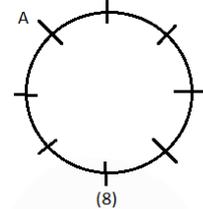
Given:  
 Eight friends – A, B, C, D, E, F, G and H are sitting around a circular table but not necessarily in the same order.  
 Different number of matches – 1, 2, 3, 4, 5, 6, 7 and 8.  
 All of them are facing center.  
 From statement I: The one, who plays

highest number of matches, sits opposite to one, who is adjacent to A.  
 The difference in the number of matches of G and E is 4. D does not sit adjacent to B.

Case 1



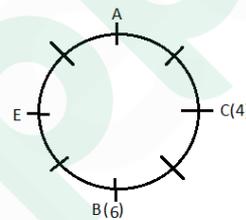
Case 2



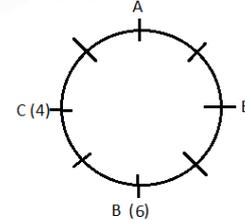
Position of H is not given. Therefore, Statement I alone is not sufficient to answer the question.

From statement II: The persons opposite to A, plays 6 matches. There is only one person between B and E and neither of them sit adjacent to A. C, who plays 4 matches, sits opposite to E.

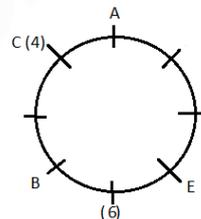
Case 1



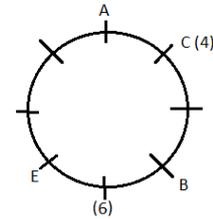
Case 2



Case 3

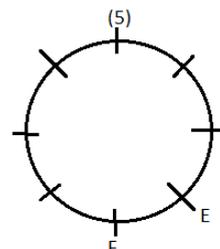


Case 4



Position of H is not given. Therefore, Statement II alone is not sufficient to answer the question.

From statement III: E is immediate right of F, who is opposite to one, who plays 5 matches. G is not adjacent to C or D. The one, who plays lowest matches, sits opposite to one, who plays 7 matches.



Position of H is not given. Therefore,

Statement III alone is not sufficient to answer the question.

On combining statements I and II, As, there are many possibilities.

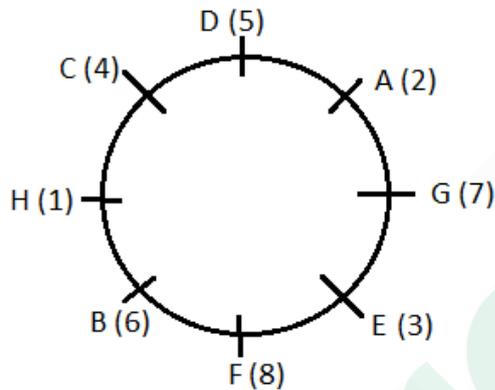
And position of H is not given. Therefore, Statement I and II together are not sufficient to answer the question.

On combining statements I and III, We cannot determine the neighbours of H. Therefore, Statement I and III together are not sufficient to answer the question.

On combining statements II and III, As, there are many possibilities,

And position of H is not given. Therefore, Statement II and III together are not sufficient to answer the question.

Combining statement I, II and III,



So, C and B are immediate neighbours of H and H plays 1 match.

Hence, all statements I, II and III are sufficient.

34. Ans. C.

**People: P, Q, R, S, T, U, and V**

**Subjects: Mathematics and Science**

**Max marks: 50 in each subject**

1) S has got 41 marks in Mathematics and his marks in Science are 5 more than twice his age.

(Let the age of S = x

Implies, score of S in Science =  $2x + 5$ )

2) P got 11 fewer marks in Mathematics than S but 25% more than his age which is 3 years more than that of S.

(Marks of S in Mathematics = 41

Implies, marks of P in Mathematics = 30

Which further implies, age of P = 24

years (as,  $30 = 125\%$  of 24)

It is given that P is 3 years older than S, implies S is 21 years old. Which means, marks of S in Science is 47.)

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R				
S	21	41	47	88
T				
U				
V				

3) The average age of R and S is 2 years less than that of the average age of P and V, also the age of P is 20% more than that of V.

(We know that the age of P is 24 years, hence,

$$24 = 120\% \text{ of } 20$$

Implies age of V = 20 years.

Average age of P and V is 22 years ( $(20 + 24)/2 = 22$  years)

Implies the average age of R and S is 20 years. It means that the sum of age of R and S is 40 years. Hence, the age of R is 19 years (as the age of S is 21 years.)

4) Total marks of R is 24 less than that of the person who is 2 years older than him and he scored 12 more marks in Science than Mathematics.

(Age of R is 19 years and age of S is 21 years. Thus, total marks of R is 24 less than that of S, implies total marks of R is 64.

Let R's marks in Mathematics = a

Let R's marks in Science = b

Then,

$$a + b = 64$$

$$b - a = 12$$

Solving both these equations, we get:

$$a = 26 \text{ \& } b = 38$$

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R	19	26	38	64
S	21	41	47	88
T				
U				
V	20			

5) T failed in one of the subjects by two marks and his score in Science is 21 less

than that of P but only 11 less than that of R.

(This means that T scored 18 marks in either Mathematics or Science. Also, T scored 11 less than R in Mathematics, implies T scored 27 in Science, it further implies P scored 48 in Science.

Now that we know that T did not score 18 marks in Science, implies he scored 18 marks in Mathematics.)

6) Q is three years younger than U and the total score of Q is 7 more than that of T.

(Total score of T is 45 (Acc. to previous statement), implies total score of Q is 52.)

7) Marks scored by V in Mathematics is 5 less than the age of Q but 27 less than the marks scored by P in Science.

(Marks of P in Science = 48

Implies, marks of V in Mathematics =  $48 - 27 = 21$

It further implies that age of Q =  $21 + 5 = 26$  years.

According to statement 6,

Age of U = 3 years + age of Q =  $26 + 3 = 29$  years.)

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26			52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29			
V	20	21		

8) Total marks scored by P is 30% more than total marks scored by V, also marks scored by V in Science is 3 more than that of U.

(Total marks score by P = 78

Now,  $78 = 130\%$  of 60

Implies, total marks scored by V = 60

Marks scored by V in Science =  $60 - 21 = 39$  (V scored 21 marks in Mathematics)

This implies marks of U in Science =  $39 - 3 = 36$ )

9) The average score of U in both the subjects is 1 more than his score in Mathematics but 2 more than Q's score

in Mathematics.

(Score of U in Science = 36

Let, the score of U in Mathematics = x

Implies,  $(x + 36)/2 = x + 1$

Implies,  $x = 34 =$  Score of U in Mathematics.

Average marks of U in both the subjects =  $(34 + 36)/2 = 35$

Q's marks in Mathematics =  $35 - 2 = 33$

Also, we know that the total score of Q in both the subjects is 52.

Implies Q's marks in Science =  $52 - 33 = 19$ )

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26	33	19	52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29	34	36	70
V	20	21	39	60

Clearly, V scored 60 marks.

35. Ans. D.

**People: P, Q, R, S, T, U, and V**

**Subjects: Mathematics and Science**

**Max marks: 50 in each subject**

1) S has got 41 marks in Mathematics and his marks in Science are 5 more than twice his age.

(Let the age of S = x

Implies, score of S in Science =  $2x + 5$ )

2) P got 11 fewer marks in Mathematics than S but 25% more than his age which is 3 years more than that of S.

(Marks of S in Mathematics = 41

Implies, marks of P in Mathematics = 30

Which further implies, age of P = 24

years (as,  $30 = 125\%$  of 24)

It is given that P is 3 years older than S, implies S is 21 years old. Which means, marks of S in Science is 47.)

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R				
S	21	41	47	88
T				
U				
V				

3) The average age of R and S is 2 years

less than that of the average age of P and V, also the age of P is 20% more than that of V.

(We know that age of P is 24 years, hence,

$$24 = 120\% \text{ of } 20$$

Implies age of V = 20 years.

Average age of P and V is 22 years  $((20 + 24)/2 = 22 \text{ years})$

Implies the average age of R and S is 20 years. It means that the sum of age of R and S is 40 years. Hence, the age of R is 19 years (as the age of S is 21 years.)

4) Total marks of R is 24 less than that of the person who is 2 years older than him and he scored 12 more marks in Science than Mathematics.

(Age of R is 19 years and age of S is 21 years. Thus, total marks of R is 24 less than that of S, implies total marks of R is 64.

Let R's marks in Mathematics = a

Let R's marks in Science = b

Then,

$$a + b = 64$$

$$b - a = 12$$

Solving both these equations, we get:

$$a = 26 \text{ \& } b = 38$$

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R	19	26	38	64
S	21	41	47	88
T				
U				
V	20			

5) T failed in one of the subjects by two marks and his score in Science is 21 less than that of P but only 11 less than that of R.

(This means that T scored 18 marks in either Mathematics or Science. Also, T scored 11 less than R in Mathematics, implies T scored 27 in Science, it further implies P scored 48 in Science.

Now that we know that T did not score 18 marks in Science, implies he scored 18 marks in Mathematics.)

6) Q is three years younger than U and the total score of Q is 7 more than that of T.

(Total score of T is 45 (Acc. to previous statement), implies total score of Q is 52.)

7) Marks scored by V in Mathematics is 5 less than the age of Q but 27 less than the marks scored by P in Science.

(Marks of P in Science = 48

Implies, marks of V in Mathematics =  $48 - 27 = 21$

It further implies that age of Q =  $21 + 5 = 26 \text{ years.}$

According to statement 6,

Age of U = 3 years + age of Q =  $26 + 3 = 29 \text{ years.}$ )

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26			52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29			
V	20	21		

8) Total marks scored by P is 30% more than total marks scored by V, also marks scored by V in Science is 3 more than that of U.

(Total marks score by P = 78

Now,  $78 = 130\% \text{ of } 60$

Implies, total marks scored by V = 60

Marks scored by V in Science =  $60 - 21 = 39$  (V scored 21 marks in Mathematics)

This implies marks of U in Science =  $39 - 3 = 36$ )

9) The average score of U in both the subjects is 1 more than his score in Mathematics but 2 more than Q's score in Mathematics.

(Score of U in Science = 36

Let, the score of U in Mathematics = x

Implies,  $(x + 36)/2 = x + 1$

Implies,  $x = 34 = \text{Score of U in Mathematics.}$

Average marks of U in both the subjects =  $(34 + 36)/2 = 35$

Q's marks in Mathematics =  $35 - 2 = 33$

Also, we know that the total score of Q in both the subjects is 52.

Implies Q's marks in Science =  $52 - 33 = 18$ )

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26	33	19	52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29	34	36	70
V	20	21	39	60

Clearly, P scored 48 marks in Science which is the highest.

36. Ans. E.

**People: P, Q, R, S, T, U, and V**  
**Subjects: Mathematics and Science**  
**Max marks: 50 in each subject**

1) S has got 41 marks in Mathematics and his marks in Science are 5 more than twice his age.

(Let the age of S = x

Implies, score of S in Science =  $2x + 5$ )

2) P got 11 fewer marks in Mathematics than S but 25% more than his age which is 3 years more than that of S.

(Marks of S in Mathematics = 41

Implies, marks of P in Mathematics = 30

Which further implies, age of P = 24 years (as,  $30 = 125\%$  of 24)

It is given that P is 3 years older than S, implies S is 21 years old. Which means, marks of S in Science is 47.)

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R				
S	21	41	47	88
T				
U				
V				

3) The average age of R and S is 2 years less than that of the average age of P and V, also the age of P is 20% more than that of V.

(We know that age of P is 24 years, hence,

$24 = 120\%$  of 20

Implies age of V = 20 years.

Average age of P and V is 22 years ( $(20 + 24)/2 = 22$  years)

Implies the average age of R and S is 20 years. It means that the sum of age of R and S is 40 years. Hence, the age of R is 19 years (as the age of S is 21 years.)

4) Total marks of R is 24 less than that of the person who is 2 years older than him and he scored 12 more marks in Science than Mathematics.

(Age of R is 19 years and age of S is 21 years. Thus, total marks of R is 24 less than that of S, implies total marks of R is 64.

Let R's marks in Mathematics = a

Let R's marks in Science = b

Then,

$a + b = 64$

$b - a = 12$

Solving both these equations, we get:

$a = 26$  &  $b = 38$

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R	19	26	38	64
S	21	41	47	88
T				
U				
V	20			

5) T failed in one of the subjects by two marks and his score in Science is 21 less than that of P but only 11 less than that of R.

(This means that T scored 18 marks in either Mathematics or Science. Also, T scored 11 less than R in Mathematics, implies T scored 27 in Science, it further implies P scored 48 in Science.

Now that we know that T did not score 18 marks in Science, implies he scored 18 marks in Mathematics.)

6) Q is three years younger than U and the total score of Q is 7 more than that of T.

(Total score of T is 45 (Acc. to previous statement), implies total score of Q is 52.)

7) Marks scored by V in Mathematics is 5 less than the age of Q but 27 less than the marks scored by P in Science.

(Marks of P in Science = 48

Implies, marks of V in Mathematics = 48

- 27 = 21

It further implies that age of Q = 21 + 5 = 26 years.

According to statement 6,

Age of U = 3 years + age of Q = 26 + 3 = 29 years.)

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26			52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29			
V	20	21		

8) Total marks scored by P is 30% more than total marks scored by V, also marks scored by V in Science is 3 more than that of U.

(Total marks score by P = 78

Now, 78 = 130% of 60

Implies, total marks scored by V = 60

Marks scored by V in Science = 60 - 21 = 39 (V scored 21 marks in

Mathematics)

This implies marks of U in Science = 39 - 3 = 36)

9) The average score of U in both the subjects is 1 more than his score in Mathematics but 2 more than Q's score in Mathematics.

(Score of U in Science = 36

Let, the score of U in Mathematics = x

Implies,  $(x + 36)/2 = x + 1$

Implies, x = 34 = Score of U in Mathematics.

Average marks of U in both the subjects =  $(34 + 36)/2 = 35$

Q's marks in Mathematics = 35 - 2 = 33

Also, we know that the total score of Q in both the subjects is 52.

Implies Q's marks in Science = 52 - 33 = 18)

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26	33	19	52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29	34	36	70
V	20	21	39	60

Age of U = 29 years

Age of R = 19 years

Average =  $(29 + 19) \div 2 = 48/2 = 24$  years

37. Ans. B.

**People: P, Q, R, S, T, U, and V**

**Subjects: Mathematics and Science**

**Max marks: 50 in each subject**

1) S has got 41 marks in Mathematics and his marks in Science are 5 more than twice his age.

(Let the age of S = x

Implies, score of S in Science =  $2x + 5$ )

2) P got 11 fewer marks in Mathematics than S but 25% more than his age which is 3 years more than that of S.

(Marks of S in Mathematics = 41

Implies, marks of P in Mathematics = 30

Which further implies, age of P = 24 years (as,  $30 = 125\%$  of 24)

It is given that P is 3 years older than S, implies S is 21 years old. Which means, marks of S in Science is 47.)

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R				
S	21	41	47	88
T				
U				
V				

3) The average age of R and S is 2 years less than that of the average age of P and V, also the age of P is 20% more than that of V.

(We know that age of P is 24 years, hence,

$24 = 120\%$  of 20

Implies age of V = 20 years.

Average age of P and V is 22 years  $((20 + 24)/2 = 22$  years)

Implies the average age of R and S is 20 years. It means that the sum of age of R and S is 40 years. Hence, the age of R is 19 years (as the age of S is 21 years.)

4) Total marks of R is 24 less than that of the person who is 2 years older than him and he scored 12 more marks in Science than Mathematics.

(Age of R is 19 years and age of S is 21 years. Thus, total marks of R is 24 less than that of S, implies total marks of R

is 64.

Let R's marks in Mathematics = a

Let R's marks in Science = b

Then,

$$a + b = 64$$

$$b - a = 12$$

Solving both these equations, we get:

$$a = 26 \text{ \& } b = 38$$

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R	19	26	38	64
S	21	41	47	88
T				
U				
V	20			

5) T failed in one of the subjects by two marks and his score in Science is 21 less than that of P but only 11 less than that of R.

(This means that T scored 18 marks in either Mathematics or Science. Also, T scored 11 less than R in Mathematics, implies T scored 27 in Science, it further implies P scored 48 in Science.

Now that we know that T did not score 18 marks in Science, implies he scored 18 marks in Mathematics.)

6) Q is three years younger than U and the total score of Q is 7 more than that of T.

(Total score of T is 45 (Acc. to previous statement), implies total score of Q is 52.)

7) Marks scored by V in Mathematics is 5 less than the age of Q but 27 less than the marks scored by P in Science.

(Marks of P in Science = 48

Implies, marks of V in Mathematics =  $48 - 27 = 21$

It further implies that age of Q =  $21 + 5 = 26$  years.

According to statement 6,

Age of U = 3 years + age of Q =  $26 + 3 = 29$  years.)

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26			52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29			
V	20	21		

8) Total marks scored by P is 30% more than total marks scored by V, also marks scored by V in Science is 3 more than that of U.

(Total marks score by P = 78

Now,  $78 = 130\%$  of 60

Implies, total marks scored by V = 60

Marks scored by V in Science =  $60 - 21 = 39$  (V scored 21 marks in Mathematics)

This implies marks of U in Science =  $39 - 3 = 36$

9) The average score of U in both the subjects is 1 more than his score in Mathematics but 2 more than Q's score in Mathematics.

(Score of U in Science = 36

Let, the score of U in Mathematics = x

Implies,  $(x + 36)/2 = x + 1$

Implies,  $x = 34 =$  Score of U in Mathematics.

Average marks of U in both the subjects

=  $(34 + 36)/2 = 35$

Q's marks in Mathematics =  $35 - 2 = 33$

Also, we know that the total score of Q in both the subjects is 52.

Implies Q's marks in Science =  $52 - 33 = 19$ )

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26	33	19	52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29	34	36	70
V	20	21	39	60

Q and T are the only two people who failed in at least one subject.

38. Ans. E.

**People: P, Q, R, S, T, U, and V**

**Subjects: Mathematics and Science**

**Max marks: 50 in each subject**

1) S has got 41 marks in Mathematics and his marks in Science are 5 more than twice his age.

(Let the age of S = x

Implies, score of S in Science =  $2x + 5$ )

2) P got 11 fewer marks in Mathematics than S but 25% more than his age which is 3 years more than that of S.

(Marks of S in Mathematics = 41

Implies, marks of P in Mathematics = 30

Which further implies, age of P = 24 years (as,  $30 = 125\%$  of 24)  
 It is given that P is 3 years older than S, implies S is 21 years old. Which means, marks of S in Science is 47.)

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R				
S	21	41	47	88
T				
U				
V				

3) The average age of R and S is 2 years less than that of the average age of P and V, also the age of P is 20% more than that of V.

(We know that age of P is 24 years, hence,

$$24 = 120\% \text{ of } 20$$

Implies age of V = 20 years.

Average age of P and V is 22 years ( $(20 + 24)/2 = 22$  years)

Implies the average age of R and S is 20 years. It means that the sum of age of R and S is 40 years. Hence, the age of R is 19 years (as the age of S is 21 years.)

4) Total marks of R is 24 less than that of the person who is 2 years older than him and he scored 12 more marks in Science than Mathematics.

(Age of R is 19 years and age of S is 21 years. Thus, total marks of R is 24 less than that of S, implies total marks of R is 64.

Let R's marks in Mathematics = a

Let R's marks in Science = b

Then,

$$a + b = 64$$

$$b - a = 12$$

Solving both these equations, we get:

$$a = 26 \text{ \& } b = 38$$

People	Age	Mathematics	Science	Total
P	24	30		
Q				
R	19	26	38	64
S	21	41	47	88
T				
U				
V	20			

5) T failed in one of the subjects by two marks and his score in Science is 21 less than that of P but only 11 less than that of R.

(This means that T scored 18 marks in either Mathematics or Science. Also, T scored 11 less than R in Mathematics, implies T scored 27 in Science, it further implies P scored 48 in Science.

Now that we know that T did not score 18 marks in Science, implies he scored 18 marks in Mathematics.)

6) Q is three years younger than U and the total score of Q is 7 more than that of T.

(Total score of T is 45 (Acc. to previous statement), implies total score of Q is 52.)

7) Marks scored by V in Mathematics is 5 less than the age of Q but 27 less than the marks scored by P in Science.

(Marks of P in Science = 48

Implies, marks of V in Mathematics =  $48 - 27 = 21$

It further implies that age of Q =  $21 + 5 = 26$  years.

According to statement 6,

Age of U = 3 years + age of Q =  $26 + 3 = 29$  years.)

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26			52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29			
V	20	21		

8) Total marks scored by P is 30% more than total marks scored by V, also marks scored by V in Science is 3 more than that of U.

(Total marks score by P = 78

Now,  $78 = 130\%$  of 60

Implies, total marks scored by V = 60

Marks scored by V in Science =  $60 - 21 = 39$  (V scored 21 marks in Mathematics)

This implies marks of U in Science =  $39 - 3 = 36$ )

9) The average score of U in both the subjects is 1 more than his score in

Mathematics but 2 more than Q's score in Mathematics.

(Score of U in Science = 36

Let, the score of U in Mathematics = x

Implies,  $(x + 36)/2 = x + 1$

Implies,  $x = 34 =$  Score of U in Mathematics.

Average marks of U in both the subjects =  $(34 + 36)/2 = 35$

Q's marks in Mathematics =  $35 - 2 = 33$

Also, we know that the total score of Q in both the subjects is 52.

Implies Q's marks in Science =  $52 - 33 = 19$ )

People	Age	Mathematics	Science	Total
P	24	30	48	78
Q	26	33	19	52
R	19	26	38	64
S	21	41	47	88
T		18	27	45
U	29	34	36	70
V	20	21	39	60

Clearly, T scored the least marks but his age is not known.

39. Ans. D.

The most logical inference that can be drawn from the question statement is the fact that the percentage of the workforce has been declining since the 1980s. This means that people of Tamil Nadu are finding work in Tamil Nadu itself. Option A states before the 1980s people there knew Hindi too which was banned after 1980s. This could be one of the reasons that hindered people from migrating to other cities for work as language plays a major role in deciding such things. The second option says that Tamil Nadu created more job opportunities and hence the population did not find any reason to migrate for livelihood opportunities. The third option says that since the government of the other cities started the policy of giving jobs only on the basis of the 'sons of the soil' theory, people from Tamil Nadu were discouraged from going elsewhere. Option D is bizarre and goes beyond logic and is incorrect.

40. Ans. B.

The correct answer is **option 2**, i.e.

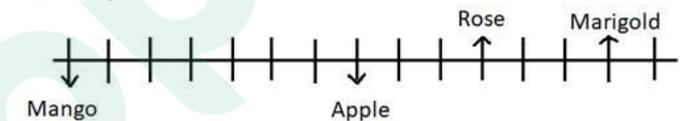
**Jhunjhunwala bought fresh shares**

**in Lupin to increase his holding.**

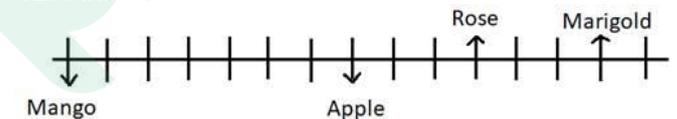
Since, we don't have any option as 'None can be inferred', thus, we must look for the option choice that is closest to the given statement.

Options (a), (b) and (d) can be rejected as no information to back up the information stated in these options is evident from the given information. All these options present new ideas about which no inference of any sort can be done. Option (b) is the most safest answer choice as in the statement, it is written that Jhunjhunwala accumulated shares of Orient Cement and Lupin which can be assumed to be the reason to increase his holding in the company. Thus, we can infer option 2 to some extent from the given statement. Thus, the most appropriate answer is option 2.

41. Ans. A.



42. Ans. C.



43. Ans. E.

We have to claim that reason which may not be a reason for protest against Company S in Country Y. Since, they are willing to pay extra charge to give the prime spot in the mall which will not create any sort of protest within the company. Option A, B, C and D have serious impact as they are against the values and regulations of country Y. Hence, option E will follow.

44. Ans. E.

None of the courses of action follow. The given statement hasn't stated reasons as to why the program was cancelled and has also not given any information about the importance of the program. We also do not know how effective this program would have been, so not point in asking NASA to cut down budgets reserved for other programs and finance this one instead. And III is beyond the scope of what is given. It brings into context

extraneous information. Therefore, option E is the correct answer.

45. Ans. B.  
The correct answer is **option 2**, i.e. **All are implicit**.

An assumption is a thing that is accepted as true or as certain to happen, without proof.

From the statement, it is evident that FSSAI has urged food companies to distinguish between atta and maida by differentiating in their nomenclature in order to provide clarity to the consumers. And further information regarding its components is also mentioned.

Assumption (I) is an appropriate assumption on the basis of given statement. It perfectly captures the sole idea behind the mentioned step by FSSAI. Assumption (II) is sort of a rephrase of assumption (I) bringing out the core idea of the given statement.

Assumption (III) can be understood as the reason why such step was required. It is also a logical assumption that can be drawn on the basis of the given information.

Thus, all the assumptions are relevant and the most appropriate answer choice is option 2.

46. Ans. E.

"Sap means to gradually weaken or destroy (a person's strength or power). The first three alternatives are the synonyms of the word, while the fourth one is not. "Hanker" means to yearn.

47. Ans. B.

The given statement is stated in the context of the convenience the prepaid debit cards bring. It is stated that besides being accepted anywhere that credit cards bearing the same logos are accepted, prepaid cards keeps the consumer from paying interest. The 'convenience of plastic' refers to the ease brought by cashless transactions. Carrying money would include a number of problems like the volume of the notes. But, payment cards ease these problems by making transactions smooth and hassle-free. Thus, option B is the most appropriate answer.

48. Ans. B.

With reference to the passage, alternatives II states the advantages of

prepaid credit cards, while alternative III states a disadvantage. The alternative I is true about prepaid credit cards but the option of online payment may possibly be available with credit cards also. So it is neither an advantage or disadvantage. Thus, option B is the correct answer.

49. Ans. A.

"To contend with" means to have to deal with a difficult or unpleasant situation. Millennials (a word crafted to refer to the generation born between 1980 and 2000) are young people who are between the ages of 20 to 40 years and are fast entering their prime spending years. Growing up in an age of rapid change, they have a set of expectations and priorities that are radically different from those of the older generations.

The passage talks about the importance of saving for the future or retirement. Saving for the future is on the minds of millennials, but many feel overwhelmed and under-prepared. Coupled with rising health care, child care, and housing costs, the economic priority for millennials is to achieve and maintain financial stability instead of saving for the future. They're regularly chastised for failing to save enough for their future.

Millennial paradox refers to the situation where they know "they should be saving £800 (or about \$1,146) a month over the next 40 years, in order to retire at 65 with an annual income of £30,000" but "they're too busy buying groceries or paying rent" and debts "to even think about being able to have that much money to allocate to a savings account." This idea is best described in statement A. Therefore, option A is the apt answer.

50. Ans. A.

Refer the following sentences from the passage:

a. Financial planners... can argue that millennials don't realize how much they need to save... failing to appreciate that yes, one day they, too, will be 65 and need a retirement nest egg." Thus, alternative (a) is correct.

b. "A recent survey found that on an average, while millennials are doing a good job of budgeting and say they have increased their savings in the past 12 months, their actual savings rate is about

8%." Thus, alternative (b) is correct.  
c. "On average, millennials who rent nationwide would have had to spend 30% of their monthly income to their landlords." Thus, alternative (c) is also correct.

Thus, option A is the correct answer.

51. Ans. B.

The error lies in option B. The correct idiom is 'huff and puff' which means disapproving to complain loudly and express disapproval. Therefore, option D is the apt answer

52. Ans. C.

The error lies in the third part of the sentence. "Entrepreneurs" is a noun and signifies a group of people. People can be "innovative" and not "innovation". Thus, option C is the correct answer.

53. Ans. B.

Complimentary- approving  
Cursory- casual  
Commissioning- authorizing

In the given question, we need to find a word which fits into all the three blanks. In the given passage, the sentence under concern is followed by one which appreciates the economy of UK. From the second sentence, it can be gathered that the situation of poverty is considered as unjust for a prosperous nation like U.K. The word in the blank must signify that the condition is considered something with reference to the British values. Certainly, poverty will be considered as blot on the legacy of the nation. Thus, "contrary", which means "in contrast to" is the best fit word for the blank. "Complying" and "complimentary" would convey a meaning opposite to what is required. The words given in the last two options will convey an appropriate sense. "Contrary" fits in both the blanks of the given two sentences. In the first, it means that what is usually believed with reference to accidents does not actually hold true. In the second sentence, it means that opposed to the government's promises, the habitations of the villagers lacked road connectivity and other basic amenities.

54. Ans. E.

"Deep" as well as "immense" are adjectives. In the given sentence, it must be assured that these adjectives modify

the correct noun. Though the term "immense despair" may sound right, the term "deep growth" is incorrect. Thus, the positions of the two adjectives must be altered to make the sentence correct. "Immense growth" and "deep despair" are correct terms. So, option E is the correct answer.

55. Ans. D.

In the given question, we must choose a word that can fill two blanks of the passages. Let's look at the context of the first sentence. Here the word should be a noun which is modified by the adjective "local" and must be a body that performs vital roles in providing a real social safety net. Certainly, only "authorities" fits here. "Local settlements" is quite inappropriate here. In the blank marked as (F), the concerned noun is trying to devise ways counteract the worst features of the Government's benefits policy. Thus, the word "authorities" fits here also. Hence, option D is the correct answer.

56. Ans. B.

Note that we have to draw an inference from the concerned sentence, while keeping the context of the passage in mind. The sentence preceding the concerned sentence states that local authorities in England, which perform vital roles in providing a **real social safety net**, have been removed by a series of government policies. This implies that the social fabric has been adversely affected by the removal of certain local authorities. The concerned sentence further states how institutions that are necessary for the social and recreational growth of an individual, have been shut down. This implies that the course of action will adversely affect the social health of the people. Thus, option B is the correct answer.

The statement mentioned in option A carries a very narrow sense and cannot be inferred from the sentence. Statement C is out of context as the passage puts forth the problem and does not discuss how the institutions can be revived. Statement D is also not an appropriate inference as the author does not intertwine the problem with an economic crisis, but sees it as a failure of the government.

57. Ans. A.

Backdrop- the setting or background for a scene, event, or situation; lie behind or beyond; serve as a background to  
Precursor- a person or thing that comes before another of the same kind, predecessor

Profusion- an abundance or large quantity of something

Let us look at the first sentence given above. It indicates that the hills acted as a part of the surrounding where the little log cabin was situated. So, "background" can fit here the best. "Surrounding" is quite inappropriate here. The second sentence implies that the "unmitigated gloom" acts as the pretext, in reference with which the conference begins. The similar meaning is conveyed by segment VI of the passage. It implies that though the labour and housing markets provide a background to the issue, the focus of the report is on the contribution made by social security and related policies. Thus, option A is the correct answer.

58. Ans. A.

Part VII talks about the segments of the population that live in poverty or lie below the poverty line. So, the next part, which is joined by the coordinating conjunction "and" must give statistics with reference to poverty. This eliminates options C. Option A fits well while making the sentence grammatically and contextually correct.

Option B is incorrect as the term "suffering poor" is incorrect. Option D is incorrect as one would not struggle to move further down (towards economic decline). E cannot fit the blank as "to be hit by unemployment" is not an appropriate term.

59. Ans. D.

The concerned sentence talks about the statistical predictions made by the Institute for Fiscal Studies. The usage of "various" indicates that there are other **actors** responsible for the predictions. Had option C been in the plural form, it could have fit. Soothsayers are people who foresee the future. The word cannot be used in the blank as it carries an impractical connotation with it. "Columns" also does not fit the blank as we don't know what columns are being

talked about. Resources refers to the wealth that can be drawn on by a person or organization in order to function effectively. "Resources" cannot predict, but "sources" (authorities or informants) can. Thus, option D is the correct answer.

60. Ans. B.

The sentence in segment IX is followed by one which presents statistics with reference to the poverty in Britain. IX carries the idea forward by further stating statistics. However, sentence X shows some non- statistical factors, the decline of which have adversely affected the country. So, a sentence which directs the course of the context from statistical data to non- statistical data can act as a connector. The statement mentioned in option B succeeds to do that. Thus, it is the most appropriate answer.

A is incorrect as the usage of "however" indicates that the following sentence must present a contrast to the sentence preceding it. Option C, by mentioning about "exports", diverges from the context. D is incorrect as it indicates that the next sentence must further deal with statistical data. Option E, again disturbs the continuity of the sentence with reference to the context.

61. Ans. B.

The word "state" can mean a country as well as "condition". Thus, "state" can fit at (1) and (3). However, the term "government of denial" is incorrect. Thus, the positions of "state" and "government" should be interchanged to make the sentence correct.

62. Ans. E.

The sentence in segment XII implies that the ministers of the government are not very interested in addressing and resolving the problem. Also, their action has not been satisfactory enough. Thus, the tweaks in the policies must have been made reluctantly or unwillingly. Thus, option E is the correct answer. Options B, C and D would convey the opposite meaning. Option A is irrelevant here.

63. Ans. C.

The error is in the third part of the sentence. In the given sentence, 'if' has been used in the sentence to indicate a condition which has never existed and seemingly will never exist. In such cases,

we use the plural form of the auxiliary verb, which must also be in the past tense. Thus, "were" should replace "is".

64. Ans. C.

Refer to the second question in the series.

65. Ans. B.

After reading all the statements, it can be understood that the passage undertakes the marketing aspect of food products. It states how marketing falsely highlights the medical benefits of some of the products, to the extent that they are treated as medicines. In an attempt to market products and increase sale, certain food items are often projected as a panacea.

All the statements except B appear to be the continuation of another sentence. Also, it poses the problem with which the whole paragraph grapples: why producers of foods such as cranberries, pears, etc. fund research aimed at proving that these foods—rather than fruits, vegetables, or nuts in general—have special health benefits. One might argue that C can be the opening sentence, but this would not help in forming a comprehensive passage. So, B is the first sentence. Now, F answers the question posed in B, thus, F must follow B. F states how the FDA requires research to support health claims and greatly prefers studies that **involve human subjects** rather than animals. This idea is carried forward by statement A which mentions how The FDA supported the petition presented by the Royal Hawaiian Macadamia that cited several **studies done in humans**. Hence, so far BFA run in a sequential order. Since we know that E is the fifth sentence, either E or D must precede E or be the last sentence in the series. Evidently, C must precede E as E supports how "Foods are not drugs". E tells how different kinds of food combine to benefit a person and one cannot stay healthy only by the consumption of a single food product. Thus, D is the last sentence in the sequence. So, the correct order after rearrangement is BFACED.

66. Ans. A.

The second and the third sentence after rearrangement are F and A respectively. Both these sentences talk about the Royal Hawaiian Macadamia Nut. F mentions

that FDA approves a food product as healthy if a study related to it has been conducted on humans. Statement A claims how the Royal Hawaiian Macadamia Nut got its advertisement approved by claiming to have conducted a study on humans. So, the sentence that comes in between F and A, must talk about the same elements. Statement A fulfils this requirement as it mentions how the Royal Hawaiian Macadamia Nut petitioned the FDA to say in advertisements that its products are beneficial to human health.

B and E are completely irrelevant. C and D cannot fit as they talk about blueberries and dark chocolate respectively, while the food under concern is macadamia nut.

67. Ans. C.

The fifth sentence of the passage is E and the sixth sentence after rearrangement is D. E asserts that the combination of different foods fulfil our nutrient requirement. D goes on to claim that certain specific food items are branded as "Superfoods" to promote sales. Thus, the idea in E runs in contrast to that mentioned in D. Hence, "but" is the most appropriate connector which can combine the two sentences to convey a logical sense. "Similarly" would show the similarity and can be eliminated. The other connectors do not fit properly. Option C is the correct answer.

68. Ans. A.

Statements C and E would support the argument mentioned in option B, which talks of a balanced diet. Thus, B is in conjunction with the major theme of the passage. C also fits as it can be taken as the statement made by the FDA in support of macadamia nuts. D puts forth the perspective of the author of the passage, who is strictly against the concept of "Superfoods", products that are solely promoted to enhance sales and gain profit. Thus, D also fits in the passage.

Option A contains the odd sentence as it concerned about organic farming that can reduce green house gas emissions.

69. Ans. D.

The first sentence of the concerned passage states the factors which impede saving by Americans. The blank is

preceded by the phrase "But another" and is followed by the mention of a challenge. This indicates that something synonymous to "factor" will be put here. "Variable" refers to an element, feature, or factor that is liable to vary or change, and fits appropriately in the blank. The other words are inappropriate in the given context.

70. Ans. E.

Since all the statements are correct with reference to the passage, option E is the correct answers

71. Ans. B.

It is stated in the passage that "People claim they're willing to embrace all manners of self-control—saving money, working out, cleaning their room—provided that they don't have to do so immediately. Academics use terms such as "hyperbolic discounting" or "time-inconsistency" to designate this habit." This behaviour can be simply termed as procrastination. The author would agree with option B.

72. Ans. B.

"To give up the gratification of spending immediately" that people are tempted to spend as soon as they get money and do not bother about future security that could be done through savings. This idea is expressed in option B, which is the correct answer.

73. Ans. D.

According to the passage:  
I. "According to her, ten years after the crisis "the financial system remains fragile, inefficient and dangerous."" Thus, alternative I is incorrect.

III. "... the 2008 crisis was avoidable since it was caused by weak corporate governance and policy failures". This means that strong corporate governance and policy failures (legislation) could have avoided the crisis. Thus, alternative III is correct.

Alternatives II and IV are incorrect as both the statements are stated in reference to the present political and economic scenario of the U.S. and cannot be applied to the 2008 financial crisis.

74. Ans. E.

"Overstate" means to exaggerate, magnify or amplify. "Downplay" means to understate or undervalue and carries an

opposite meaning to "overstate". Ambiguous means unclear or undecided.

75. Ans. B.

To "tailor" means to modify, adjust or customize. The given segment means that though the idea of changing/modifying the rules sounds good, one could face a challenge when it comes to implementing those rules. This idea is expressed in option B, which is the correct answer.

76. Ans. B.

The only error in the given segment is the phrase "water over" which is incorrect. The correct phrase is "water down", which means to make something weaker or less effective. Thus option B is the correct answer.

77. Ans. B.

The passage talks about UBI which could give more agency to the low paid workers in choosing their jobs and opting what they want to do. The author supports UBI and lists out the positive impacts of the scheme while stating that "A UBI is not designed to promote "laziness" or any other type of behaviour, simply to allow individuals to make their own decisions about how they wish to spend their time." Thus, the scheme aims to achieve something revolutionary. This is expressed in option B, which is the correct answer.

'New normal' means something that has been accepted in the normal life, but since this is not the case with UBI, option A is incorrect.

78. Ans. B.

It is the ingrained idea of relating paid work with worth that downplays a scheme like UBI. The author discusses in detail that "Those out of work are positioned in direct contrast to those in paid employment: the shirkers versus the strivers". This conditioning acts as a major roadblock in the acceptance of the system.

Option D has not been discussed in the passage and can be eliminated.

79. Ans. E.

All the statements are correct with reference to the benefits of the UBI in the context of the passage. Sabbatical refers to a break or a leave taken for a certain duration of time.

According to the passage, "Depending on the amount paid, it could enable low-paid workers to turn down the worst jobs on offer, **or enable time away from paid work to retrain, or start a business...** allow individuals to make their own **decisions about how they wish to spend their time.**

80. Ans. C.

"Stable" means balanced or sensible. "Sound" and secure are its synonyms. Thus, option C is the correct answer. Free is irrelevant here.

81. Ans. C.

In bag A,

Number of red, green and white balls is 2, 3 and 5 respectively.

Total number of balls in bag A = 10

So, probability of drawing one white ball from bag A =  $\frac{5}{10}$

In bag B,

Number of green balls is x

Total number of balls in bag B = x + 7

So, probability of drawing one red ball from bag B =  $\frac{4}{(x+7)}$

Given that,

$$\frac{5}{10} - \frac{4}{(x+7)} = \frac{1}{6}$$

$$\frac{4}{(x+7)} = \frac{5}{10} - \frac{1}{6}$$

$$\frac{4}{(x+7)} = \frac{1}{2} - \frac{1}{6}$$

$$\frac{4}{(x+7)} = \frac{1}{3}$$

$$x+7 = 12$$

$$x=5$$

82. Ans. A.

Let the distance between X and Y be d

Time taken to travel the distance = t

Given, speed = S

$$\text{So, } S = \frac{d}{t}$$

If he travels the same distance with a speed (S+12) kmph, he reaches his destination 1 hours before.

$$\text{So, } \frac{d}{S} - \frac{d}{S+12} = 1$$

But if he travels with a speed of (S - 4) kmph, he reaches 30 min late

$$\text{So, } \frac{d}{S-4} - \frac{d}{S} = \frac{1}{2}$$

So, on dividing both the equation,

$$\left\{ \frac{d}{S} - \frac{d}{S+12} = 1 \right\}$$

$$\left\{ \frac{d}{S-4} - \frac{d}{S} = \frac{1}{2} \right\}$$

So,

$$\frac{1}{S} - \frac{1}{S+12} = 2 \times \left( \frac{1}{S-4} - \frac{1}{S} \right)$$

$$\frac{S+12-S}{S(S+12)} = 2 \times \frac{S-S+4}{S(S-4)}$$

So, we can calculate the value of S, d, t

A. Speed of Ram, who can travel the same distance in 3 hours: if distance can be calculated and as the time is given then the speed can be calculated.

B. Speed of Vikram, when he reaches 30 minutes late: as we can find the value of t and d, speed can easily be calculated.

C. Distance between X and Z, if Z lies in between X and Y: cannot be calculated as the ratio or any other information is not given.

D. Value of S: it can be calculated

So option (a) is the correct answer.

83. Ans. D.

Let the time taken by women to complete the work = x hours

So, the time taken by the men to

complete the same work = x - 6

Total work done by both is same

$$\text{So, } 3 \times M \times (X - 6) = 2 \times W \times X$$

A. 6: 5

$$3 \times M \times (X - 6) = 2 \times W \times X$$

$$18 \times (X - 6) = 10 \times X$$

$$8X = 108; X = \frac{108}{8} = \frac{27}{2} = \text{a positive}$$

number

B. 2: 3

$$3 \times M \times (X - 6) = 2 \times W \times X$$

$$6 \times (X - 6) = 6 \times X$$

Not a positive number

C. 5: 2

$$3 \times M \times (X - 6) = 2 \times W \times X$$

$$15 \times (X - 6) = 4 \times X$$

$$11X = 90; X = \frac{90}{11} = \text{a positive number}$$

D. 8: 5

$$3 \times M \times (X - 6) = 2 \times W \times X$$

$$24 \times (X - 6) = 10 \times X$$

$$14X = 144; X = \frac{72}{7} = \text{a positive}$$

number

So option (d) is the correct answer.

84. Ans. D.

Let CP = 100

So, MP = 160

In 1<sup>st</sup> case discount = X%

In 2<sup>nd</sup> case discount = 2X%

A. 30, 20

$$\text{Profit}\% = \frac{SP - CP}{CP} \times 100.$$

$$30 = SP - 100; SP = 130$$

$$X = \frac{160-130}{160} \times 100 = \frac{30}{160} \times 100$$

$$\text{Profit}\% = \frac{SP - CP}{CP} \times 100.$$

$$20 = SP - 100; SP = 120$$

$$2X = \frac{160-120}{160} \times 100 = \frac{40}{160} \times 100$$

Thus, is incorrect

B. 20, 40

$$\text{Profit}\% = \frac{SP - CP}{CP} \times 100.$$

$$20 = SP - 100; SP = 120$$

$$X = \frac{160-120}{160} \times 100 = \frac{40}{160} \times 100$$

$$\text{Profit}\% = \frac{SP - CP}{CP} \times 100.$$

$$40 = SP - 100; SP = 140$$

$$2X = \frac{160-140}{160} \times 100 = \frac{20}{160} \times 100$$

Thus, is incorrect

C. 60, 30

$$\text{Profit}\% = \frac{SP - CP}{CP} \times 100.$$

$$60 = SP - 100; SP = 160$$

$$X = \frac{160-160}{160} \times 100 = \frac{0}{160} \times 100$$

$$\text{Profit}\% = \frac{SP - CP}{CP} \times 100.$$

$$30 = SP - 100; SP = 130$$

$$2X = \frac{160-130}{160} \times 100 = \frac{30}{160} \times 100$$

Thus, is incorrect

D. 40, 20

$$\text{Profit}\% = \frac{SP - CP}{CP} \times 100.$$

$$40 = SP - 100; SP = 140$$

$$X = \frac{160-140}{160} \times 100 = \frac{20}{160} \times 100$$

$$\text{Profit}\% = \frac{SP - CP}{CP} \times 100.$$

$$20 = SP - 100; SP = 120$$

$$2X = \frac{160-120}{160} \times 100 = \frac{40}{160} \times 100$$

Thus, is correct

So option (d) is the correct answer.

85. Ans. D.

Quantity I:

$$MP = 12000 \times 1.15 = \text{Rs } 13800$$

$$\text{Price after coupon discount} = 13800 - 500 = \text{Rs } 13300$$

$$\text{Purchase price} = 13300 \times 0.9 = \text{Rs } 11970$$

Quantity II:

$$\text{Share of Hashim} = 7/(7+8+9) \times 41040 = \text{Rs } 11970$$

Quantity III:

$$\text{Amount} = 9000 \times (1.1)^3 = 9000 \times 1.331 = \text{Rs } 11979$$

Therefore, C, B

86. Ans. A.

Quantity I:

$$(x-5)(x-7) = 0$$

$$\Rightarrow x = 5, 7$$

Quantity II:

$$(y-7)(y-12) = 0$$

$$\Rightarrow y = 7, 12$$

Quantity III:

$$(z-12)(z-14) = 0$$

$$\Rightarrow z = 12, 14$$

$$x \leq y \leq z$$

Hence, D, D

87. Ans. B.

Quantity I:

Suppose his score in 9<sup>th</sup> match was S.

$$(43 \times 8 + S)/9 = 45$$

$$\Rightarrow 344 + S = 405$$

$$S = 61$$

Quantity II:

Suppose their ages are 3n and 4n.

$$(3n - 6) : (4n - 6) = 7:10$$

$$\Rightarrow n = 9$$

$$\text{Sum of present ages} = 27 + 36 = 63$$

Quantity III:

Let length and breadth be L & B respectively.

$$L+B = 206/2 = 103 \text{ and } LB = 2520$$

$$\Rightarrow L, B = 63, 40$$

The length could be 63 or 40

$$61 < 63 \geq 63, 40$$

Hence, B, E.

88. Ans. B.

The pattern is

1

$$1 \times 1 + 2 = 3$$

$$3 \times 2 + 3 = 9$$

$$9 \times 3 + 4 = 31$$

$$31 \times 4 + 5 = 129$$

Similarly,

5

$$5 \times 1 + 2 = 7$$

$$7 \times 2 + 3 = 17$$

$$17 \times 3 + 4 = 55$$

$$55 \times 4 + 5 = 225$$

So, the missing number is 225

So option (b) is the correct answer.

89. Ans. B.

The pattern is

4

$$4 \times \frac{1}{2} = 2$$

$$2 \times 1 = 2$$

$$2 \times \frac{3}{2} = 3$$

$$3 \times 2 = 6$$

$$6 \times \frac{5}{2} = 15$$

$$15 \times 3 = 45$$

$$45 \times \frac{7}{2} = \frac{315}{2}$$

$$\frac{315}{2} \times 4 = 630$$

$$630 \times \frac{9}{2} = 2835$$

So, the 10<sup>th</sup> term is 2835

So option (b) is the correct answer.

90. Ans. C.

Total executive in deptt. B in the year 2016, 2017 and 2018 is 2x, 3x and 5x.

According to the question,

$$[2x * 50/100 + 3x * 70/100 + 5x * 40/100]/3 = 1700$$

$$(x + 21x/10 + 2x) = 5100$$

$$(10x + 21x + 20x) = 51000$$

$$51x = 51000$$

$$X=1000$$

Total executives in deptt. B in the year 2017 = 3\*1000 = 3000

91. Ans. D.

Let us take total executives in the year 2016 be x

According to the question,

$$(x+x+600+x+200) = 9800$$

$$\Rightarrow x=3000$$

Total executives of deptt. C in the year 2017 = x+600 = 3000 + 600 = 3600

Total employees in deptt. C in the year 2017 = 3600/40 \* 100 = 9000

92. Ans. B.

ATQ,

$$0.6C=0.4A$$

$$C=A/1.5$$

$$\& 0.4B=2 \times 0.5A$$

$$\Rightarrow B=2.5A$$

So,

$$\frac{B-C}{C} \times 100 = \frac{2.5A - A/1.5}{A/1.5} \times 100 = 275\%$$

93. Ans. C.

ATQ,

Number of times the reservoir needs to be filled=

$$\frac{30(\text{no of flats}) \times 25(\text{consumption per hour per flat}) \times 24(\text{hours}) \times 30(\text{days})}{60000(\text{Reservoir capacity})} = 9$$

94. Ans. B.

ATQ,

$$45(\text{flats}) \times 100(\text{hrs}) \times x(\text{consumption per flat per hour}) = 60000(\text{Reservoir capacity})$$

$$\Rightarrow x = 40/3(\text{ltr/hr})$$

So,  

$$\frac{25 - \frac{40}{3}}{\frac{40}{3}} \times 100 = 87\frac{1}{2}\%$$

95. Ans. A.

ATQ,

$$\frac{40}{3} (\text{consumption per hour per flat}) \times 125 (\text{hours}) \times x (\text{flats}) = 60000$$

$$\Rightarrow x = 36$$

96. Ans. A.

$$\text{Increased reservoir capacity} = 1.2 \times 60000 = 72000$$

$$\text{Filled reservoir} = 72000 \times 0.8 = 57600$$

So, ATQ

7

$$(\text{times}) \times 57600 (\text{capacity}) = 24 (\text{hours per day}) \times 28 (\text{days}) \times 24 (\text{consumption per hour per flat}) \times x (\text{no. of flats})$$

$$\Rightarrow x = 25$$

$$\Rightarrow \% \text{ flats occupied} = \frac{25}{60} \times 100 = 41\frac{2}{3}\%$$

97. Ans. B.

$$\text{Q I: } \frac{A \times 2 \times R}{100} + 20 = \frac{A \times 2 \times (R+5)}{100}$$

$$\Rightarrow A = 200$$

Q II:

$$B \left(1 + \frac{10}{100}\right)^2 - B + 68 = 250 \left(1 + \frac{20}{100}\right)^2 - 250$$

$$\Rightarrow B = 200$$

Q I:

$$\frac{C \times 2 \times 10}{100} + 2.5 = C \left(1 + \frac{10}{100}\right)^2 - C$$

$$\Rightarrow C = 250$$

Clearly, QI=QII<QIII  $\Rightarrow C), B)$

98. Ans. D.

$$\text{Clearly, Amit can do the work in} = \frac{24 \times 60}{36} = 40 \text{ days}$$

$$\& \text{ Bhuvan can do the work in} = \frac{20 \times 60}{40} = 60 \text{ days}$$

$$\text{Now, Work completed by Amit} = \frac{1}{4}$$

$$\& \text{ Work completed by Bhuvan} = \frac{1}{3}$$

$$\frac{1}{3} \Rightarrow \text{Work done by Chetan} = \frac{5}{12}$$

$$\Rightarrow \text{Chetan completes work in } X \text{ days} = \frac{5}{12} \times 60 = 25 \text{ days}$$

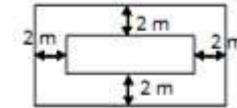
$$\text{Q I: } \frac{20 \times 25}{45} = \frac{100}{9} \text{ days}$$

$$\text{Q II: } \frac{30 \times 30}{60} = 15 \text{ days}$$

$$\text{Q III: } 25 \text{ days}$$

Clearly, QI<QII<QIII  $\Rightarrow B), B)$

99. Ans. E.



If the external breadth of the park is 'p' meters,

Then, External length of park = (p+4) meters

So, sides of internal rectangle are p and p-4 meters.

Now ATQ,

$$p(p+4) = \frac{4}{3}(p(p+4)) - p(p-4)$$

$$\Rightarrow p = \frac{20}{3} \text{ mts}$$

$$\text{Length of park} = \frac{20}{3} + 4 = \frac{32}{3}$$

Breadth of park =

$$\frac{20}{3} \Rightarrow \text{Area of Park can be calculated.}$$

Side of square =

$$\frac{20}{3} \Rightarrow$$

Area of Path, inscribed circle & Square formed by decreasing length of rect

can be calculated.

Clearly, all given options can be calculated.

100. Ans. D.

**Statement I:**

The difference between monthly savings of A in November and April is 20% of A's monthly income in April

Monthly income of A in April be Rs. a & Monthly income of A in November be Rs. b

$$\text{Monthly savings of A in April} = a^{\times} \quad 70/100 = 7a/10$$

$$\text{Monthly savings of A in November} = b^{\times} \quad 40/100 = 4b/10 \quad (7a/10 - 4b/10) =$$

$$20/100 \times a$$

**Statement II:**

Monthly savings of B in November is 40% of monthly savings of A in April  
 Monthly income of A in April be Rs. a  
 Monthly income of B in November be Rs. c

$$\text{Monthly savings of A in April} = a \times \frac{70}{100} = 7a/10$$

$$\text{Monthly savings of B in November} = 40/100 \times 7a/10$$

So, From the statement I and II, we cannot find the answer of the given question.

101. Ans. E.

Monthly income of C in April be Rs. x  
 Monthly income of C in November be Rs. y

$$\text{Monthly expenditure of C in April} = x \times \frac{60}{100}$$

$$\text{Monthly savings of C in April} = x \times \frac{40}{100}$$

$$\text{Monthly expenditure of C in November} = y \times \frac{75}{100}$$

$$\text{Monthly expenditure of C in November} = y \times \frac{25}{100}$$

**Statement I:** The difference between the monthly savings of C in April and November is 12000.

$$x \times \frac{40}{100} - y \times \frac{25}{100} = 12000$$

$$40x - 25y = 120000 \quad \text{--- (1)}$$

**Statement II:** The difference between the monthly expenditure of C in April and November is 10000.

$$x \times \frac{60}{100} - y \times \frac{75}{100} = 10000$$

$$60x - 75y = 100000 \quad \text{---- (2)}$$

From the statement I and II, we can find the monthly income of C in April and November.

102. Ans. E.

**Statement I:** D's income in November is 30% more than the C's income in April.

$$\text{D's income in November} = 130/100 \times \text{C's income in April}$$

**Statement II:** C's monthly savings in April is Rs.4800 which is 40% of his monthly income.

$$\text{C's monthly savings in April} = 4800$$

$$\text{C's monthly income in April} = 4800/40 \times 100 = 12000$$

From Statement I and II, we can find the savings of D in November

103. Ans. E.

From (i) & (ii),  
 Let, HCF be x  
 Then, LCM is 44x  
 $44x + x = 540$   
 $x = 540/45 = 12$

From (iii),  $A + B = 10K$

Let,  $A = 12a$  &  $B = 12b$

Then  $A + B = 12(a + b)$ , where a & b are co-prime.

Also,  $a \times b = 44$

Possible values of a and b are (4, 11) or (1, 44)

$$\text{Sum of } A + B = 12(4 + 11) = 180$$

$$\text{Or } A + B = 12(1 + 44) = 540$$

So, given question can't be answered even after including all the statements.

104. Ans. B.

Village	No. of wind mills	Units Produced	No. Of Houses	Wind Mills operative			
				Week1	Week2	Week3	Week4
A	24	2 lakh/week	540	18	12	18	24
B	20	80000 /week	240	10	15	20	10
C	15	1 lakh/week	150	6	9	12	9
D	12	1.5 lakh/week	350	9	6	6	9

Level 1 (upper limit) of efficiency range 2 means 55%

Total units produced in village Attalur in first week when operated at level 1 of efficiency range 2

$$= 18 \times 0.55 \times 2$$

Similarly,

Level 2 (mid limit) of efficiency Range 1

$$= \frac{60 + 70}{2} \% = 65\%$$

Total units produced in village Bodanam in week 2 when operated at level 2 of efficiency range 1

$$= 15 \times 0.65 \times 0.8$$

Required ratio =

$$(18 \times 0.55 \times 2) : (15 \times 0.65 \times 0.8) = 33 : 13$$

105. Ans. B.

Total units produced in Village Chehra at level 1 of efficiency range 1

$$= (9 + 9) \times 1,00,000 \times 0.70 = 1260000$$

Total units produced in village Attalur at level 2 of efficiency range 1

$$= (18 + 24) \times 200000 \times 0.65 = 42 \times 2000 \times 0.65 = 54,60,000 \text{ units}$$

$$\text{Required percentage} = \frac{126}{546} \times 100$$

$$= \frac{21}{23} \% = 23\frac{27}{23} \%$$

106. Ans. E.

Total units consumed at level 3 of efficiency range 3 per house =  
 $(10 \times 80000 \times 30) / (240 \times 100) =$

1000 units/house

Total units consumed at level 1 of efficiency range 2 =  $\frac{9 \times 1,00,000}{150} \times 0.55 =$   
 3300 unit/house

Required ratio = 10:33

107. Ans. D.

Let first and fifth numbers be '2x' and '2a' respectively.

Then, third number (A) =  $(2x+2a)/2 = x + a$

Second number =  $2x/2 = x$

Then,

ATQ,

$$2x + x + x + a = 127$$

$$4x + a = 127$$

From option (a)

$$x + a = 64$$

$$\Rightarrow 3x = 63$$

$$\Rightarrow x = 21$$

Average of five numbers =

$$(42+21+64+62+2(64-21)) / 5 = 55$$

According to this, option (d) 64, 55 is our correct answer.

108. Ans. B.

ATQ,

$$\frac{MP_{shirt}}{MP_{trouser}} = \frac{5}{4}$$

$$SP_{shirt} = \left(1 - \frac{d}{100}\right) 4K \text{ \& } SP_{trouser} = \left(1 - \frac{d+18}{100}\right) 5K$$

$$\Rightarrow 4 - \frac{4d}{100} = 5 - \frac{5d+90}{100} \Rightarrow d = 0.1 \text{ or } 10\%$$

Now, 1.2

$$CP_{shirt} = 4K \times 0.9 \text{ \& } 1.25CP_{trouser} = 5K \times 0.72$$

$$\& \frac{0.25 \times 5K \times \frac{0.72}{1.25}}{0.2} =$$

$$\times 4K \times \frac{0.9}{1.2} = 384$$

K=3200

$$\therefore CP_{shirt} = 3 \times 3200 = 9600 \text{ \& } CP_{trouser} = 3200 \times \frac{72}{25} = 9216$$

109. Ans. E.

height of each cuboidal vessel =

$$\frac{22 \times 24.5 \times 24.5 \times 5 \times 0.8}{9 \times 7 \times 8} = 15$$

110. Ans. A.

The resultant rice should cost  $36/1.2 =$  Rs 30/kg

A -

$$\text{Cost of resultant rice} = (15 \times 35 + 25 \times 27)/(15+25) = 1200/40 = \text{Rs } 30/\text{kg}$$

B -

$$\text{Cost of resultant rice} = (15 \times 35 + 20 \times 26)/(15+20) = 1045/35 = \text{Rs } 29.86/\text{kg}$$

C -

$$\text{Cost of resultant rice} = (15 \times 35 + 15 \times 25)/(15+15) = 900/30 = \text{Rs } 30/\text{kg}$$

D -

$$\text{Cost of resultant rice} = (15 \times 35 + 10 \times 24)/(15+10) = 765/25 = \text{Rs } 30.6/\text{kg}$$

Only A and C satisfy this condition

111. Ans. C.

A -

$$\text{Average in 12 innings} = 44$$

$$\text{Average in first 6 innings} = 42$$

$$\text{Average in remaining 6 innings} = (44 \times 12 - 42 \times 6)/6 = 276/6 = 46$$

B -

$$\text{Average in 10 innings} = 44$$

$$\text{Average in first 4 innings} = 42$$

$$\text{Average in remaining 6 innings} = (44 \times 10 - 42 \times 4)/6 = 272/6 = 45.33$$

C -

$$\text{Average in 15 innings} = 44$$

$$\text{Average in first 5 innings} = 42$$

$$\text{Average in remaining 10 innings} = (44 \times 15 - 42 \times 5)/6 = 450/10 = 45$$

D -

$$\text{Average in 9 innings} = 44$$

$$\text{Average in first 3 innings} = 42$$

$$\text{Average in remaining 6 innings} = (44 \times 9 - 42 \times 3)/6 = 270/6 = 45$$

C and D satisfy the condition.

112. Ans. B.

Let, the length of train B = x

So, the length of train A = x - 170

Given, speed of train A = 72 km/hr = 20 m/s

Speed of train B = 54 km/hr = 15 m/s

Train A and Train B crosses each other completely in 18 sec while travelling in opposite directions

So,

$$(20 + 15) = \frac{x+x-170}{18}$$

$$35 = \frac{2x-170}{18}$$

$$35 \times 18 = 2x - 170$$

$$630 + 170 = 2x$$

$$800 = 2x; x = 400$$

So, the length of train B = x = 400 m

Ans, the length of train A =  $x - 170 = 400 - 170 = 230$  m

A. Length of train A = 230 m

B. Time taken by train B to cross a pole

$$15 = \frac{400}{t}; t = \frac{400}{15} = \frac{80}{3} \text{ sec}$$

C. Time taken by train A to cross platform of length 233 m =

$$20 = \frac{230+233}{t}; t = \frac{463}{20} \text{ sec}$$

D. Initial distance between both the trains = cannot be determined

So option (b) is the correct answer.

113. Ans. D.

Let CP = 100

A - SP =  $210 \times 0.8 = 168$ , profit = 68%

B - SP =  $220 \times 0.75 = 165$ , profit = 65%

C - SP =  $240 \times 0.7 = 168$ , profit = 68%

D - SP =  $280 \times 0.6 = 168$ , profit = 68%

A, C and D fit into the blanks.

114. Ans. D.

Initially, let Manish and Nalin invested Rs. 'm' and Rs. 'n' respectively

Profit will be distributed in the ratio

$$(m \times 8 + (m + 1000) \times 4) : n \times 4$$

$$= (3m + 1000) : n$$

Sum of parts of the ratio =  $3m + n + 1000$

$$\text{Given, } \frac{n}{3m+n+1000} \times 8000 = 1000$$

$$\frac{n}{3m + 3n + 1000} = \frac{1}{8}$$

$$3m + 3n + 1000 = 8n$$

$$3m + 1000 = 7n$$

$$7n - 3m = 1000$$

Only options a and b can be the answer.

So option (d) is the correct answer.

115. Ans. D.

Ratio of profit share of Amit: Vinit:

Rachit =  $(3x \times 12) : (4x \times 12) : (6y \times 8)$

=  $36x : 48x : 48y = 3x : 4x : 4y$

According to the question,

$$3x = 4y$$

$$\frac{x}{y} = \frac{4}{3}$$

So, For option a:

$$\frac{x}{y} = \frac{400}{300} = \frac{4}{3}$$

So, option a can be the answer

For option b:

$$\frac{x}{y} = \frac{600}{450} = \frac{4}{3}$$

So, option b can be the answer

For option c:

$$\frac{x}{y} = \frac{540}{405} = \frac{4}{3}$$

So, option c can be the answer

So option (d) is the correct answer.

116. Ans. B.

State Bank of India (SBI) launched the Multi-Option Payment Acceptance Device or MOPAD, a unified payment option that accepts multiple payment methods.

Customers will be able to pay through credit or debit cards, Bharat QR, Unified Payments Interface (UPI) and SBI Buddy (e-wallet) at a Point of Sale (PoS) terminal.

117. Ans. C.

Reserve Bank of India (RBI) has formed a High-level Task Force on Public Credit Registry (PCR) for India which will be headed by Yeshwant M. Deosthalee.

118. Ans. C.

The annual festival of worship of 14 Gods, popularly known as Kharchi Puja is being celebrated in Tripura. It started at *Chaturdash Devata Bari* in old Agartala (Puran Agartala). The festival began on 10th July and end on 16th July 2019.

According to an agreement signed with the Royal family of Tripura, the Tripura government has been bearing all the expenses of the festival for the last several decades.

### About Kharchi Puja

It is one of the most popular festivals in Tripura and is celebrated at Puran Agartala in temple premises of 14 gods. The word Kharchi is derived from word 'Khya' which means earth thus Kharchi Puja is basically done to worship earth. It's a week-long royal Puja which falls in month of July on 8th day of new moon and attracts thousands of people.

The Puja celebrations extend till a week and are held in temple premises which are attended by thousands of devotees.

119. Ans. B.

Union minister of chemicals and Fertilisers Ananth Kumar has announced that the country's first e-waste recycling unit will come up in Bengaluru, Karnataka.

120. Ans. E.

Karur Vysya Bank is a private-sector bank and is one of the leading banks in India, headquartered in Karur in Tamil Nadu. It was set up in 1916 by M. A. Venkatarama Chettiar and Athi Krishna Chettiar.

121. Ans. A.

An innovative cost-effective drinking water scheme 'Sulabh Jal' launched in Darbhanga, Bihar.

The project — Sulabh Jal — was launched in Darbhanga by Sulabh International. It will convert contaminated pond water into safe drinking water.

122. Ans. C.

Nelson Mandela International Day (NMID) is an annual international day in honour of Nelson Mandela, celebrated every year on 18th July (Mandela's birthday).

The Nelson Mandela Foundation (NMF) dedicated this year's Mandela Day to '**Action Against Poverty**', honouring Nelson Mandela's leadership and devotion to fighting poverty and promoting social justice for all. This year - Nelson Mandela International Day 2018 marks 100 years since the birth of Nelson Mandela.

123. Ans. C.

Himachal Pradesh has been adjudged first among states for its performance under the Pradhan Mantri Surakshit Matritav Abhiyan (PMSMA) in the country.

The Union government has conferred the award upon Himachal Pradesh for bringing a maximum number of women for an ante-natal check-up to the PMSMA clinics.

Himachal Pradesh government had launched PMSMA in August 2016 and established around 495 clinics in which ante-natal check-ups were conducted by the doctors. Under PMSMA pregnant women are supposed to get antenatal

check up on 9th of every month by a doctor.

124. Ans. D.

In the Union Budget 2018-19 the budget doubled the allocation on Digital India programme to **Rs 3073 crore** and will launch a mission to support establishment of Centres of Excellence.

**Note:**

The Finance Minister allocated **Rs. 10000 crore** in 2018-19 for creation and augmentation of Telecom infrastructure.

125. Ans. D.

India's mega defence exhibition, the Defense Expo 2018 was held in Chennai, Tamil Nadu.

126. Ans. B.

West Bengal chief minister Mamata Banerjee announced "one person one car" policy for ministers and bureaucrats and mandated economy class for all domestic air travel in a bid to cut costs incurred by the state government.

127. Ans. B.

An eight-year-old Indian-origin schoolboy who is the under-11 UK national yoga champion has been named the 'British Indian of the Year' in the young achiever category for his accomplishments in the field.

Ishwar Sharma has won a string of titles in both individual and artistic yoga, most recently a gold medal representing Great Britain at the World Student Games 2018 in Winnipeg, Canada, in June.

128. Ans. E.

Electoral bonds can be purchased for any value in multiples of Rs 1,000, Rs 10,000, Rs 10 lakh, and Rs 1 crore from any of the specified branches of the State Bank of India. The life of the bond will be for **15 days**.

- The central government had on January 29, 2018, notified the electoral bond scheme.
- An Indian citizen or body incorporated in India will be eligible to purchase the bond.
- Electoral bonds can be used for making a donation only to the political parties registered under section 29A of the Representation of the People Act, 1951 (43 of 1951) and which secured not less

than one per cent of the votes polled in the last general election to the House of the People or a Legislative Assembly.

- These bonds will not carry the name of the payee.
- **Authorised centre** - It can be purchased only from specified branches of **State Bank of India**.
- **Denomination** - Electoral bonds can be bought for any value, in multiples of Rs 1,000, Rs 10,000, Rs 1 lakh, Rs 10 lakh or Rs 1 crore.
- **Validity** - Electoral bonds will be **valid for 15 days** from the date of purchase.

129. Ans. C.

Punjab National Bank got the top spot among the PSU banks in the digital transactions as per the report published by Department of Financial Services.

130. Ans. A.

- India's first locomotive-less train will be known as Train 18. Train 18, India's first indigenously built engine-less train is built and designed by **Integral Coach Factory (ICF), Chennai**
- PM Narendra Modi flags off India's first semi-high-speed train 'Vande Bharat Express' (codenamed Train 18) without any flower decorations. The Vande Bharat Express run between Delhi and Varanasi at a maximum speed of 130 km/hr and is expected to cover a distance of around 800 kilometres in eight hours.

131. Ans. D.

Maharaja Bir Bikram Manikya Kishore airport is located in which Indian State - Agartala (Tripura).

Maharaja Bir Bikram Airport, also known as Agartala Airport, is a domestic airport located 12 kilometres northwest of the city of Agartala, the capital of the state of Tripura in India. It is administered by the Airports Authority of India.

132. Ans. C.

The Haryana Education Department has launched "I am not afraid of English" initiative to promote the English

language right from Class 1 in the state primary schools.

133. Ans. A.

Now, government to use MicroDots technology to check vehicle thefts. The new technology aims to spray thousands of laser etched small dots with a vehicle identification number all over the vehicle.

In this technique, thousands of small dots laser etched will be sprayed with a vehicle identification number on all over the vehicle's body. This will also include their engines. This tech is termed as MicroDots and it is almost impossible to remove these dots.

134. Ans. C.

Ministry of Drinking Water and Sanitation launched Swachh Bharat Mission (Grameen).

The Ministry of Drinking Water and Sanitation, besides its allocated charge of Swachh Bharat Mission (Grameen), convenes and coordinates all activities and initiatives towards the achievement of a Swachh Bharat across sectors. The Prime Minister, Shri Narendra Modi launched the Swachh Bharat Mission (SBM) on 2<sup>nd</sup> October 2014 to accelerate the efforts to achieve universal sanitation coverage in India and promote access to safe sanitation in India. The SBM aims at achieving an Open Defecation Free (ODF) nation by 2<sup>nd</sup> October 2019, a befitting tribute to Mahatma Gandhi on his 150<sup>th</sup> birth anniversary.

135. Ans. B.

Medini Puraskar Yojna to encourage original Hindi writing - The environment ministry has decided to re-introduce a scheme 'Medini Puraskar Yojna', which aims at promoting original writing of books in Hindi.

\* It aims to encourage Hindi authors to write on environmental topics.

\* Rs. 1 lakh will be given as first prize, Rs. 75,000 as second prize and Rs. 50,000 as third prize.

\* The scheme shall be administered by the Environment Ministry.

136. Ans. D.

The Indian naval ship 'INS Sumitra' has become the first-ever warship to enter the port of Sabang in Indonesia. The

ship was welcomed by Indian Ambassador to Indonesia PK Rawat. The warship was deployed in Malacca Straits.  
137. Ans. B.

Shri Dharmendra Pradhan, Union Minister of Petroleum and Natural Gas & Skill Development and Entrepreneurship launched the **SATAT** initiative which aims at providing a Sustainable Alternative Towards Affordable Transportation (SATAT) as a developmental effort that would benefit both vehicle-users as well as farmers and entrepreneurs.

138. Ans. A.

State Bank of India and NABARD have signed an agreement with National Bank for Agriculture and Rural Development (NABARD) for the promotion of 2500 joint liability groups (JLG) in select districts of West Bengal. SBI has taken this initiative to extend financial assistance to excluded sections of the society, especially small or marginal tenant farmers who do not have a proper title of their farmland.

139. Ans. B.

India signed a loan agreement of **200-million Dollar** with the World Bank for the National Nutrition Mission (POSHAN Abhiyaan) for **315 districts** across all states and union territories.

It would help the government in achieving its goal of reducing stunting in children 0-6 years of age from 38.4% to 25% by the year 2022.

Note:

- The POSHAN Abhiyaan, an overarching scheme for holistic nourishment, was launched by Prime Minister Narendra Modi in March this year at Jhunjhunu, Rajasthan.
- POSHAN Abhiyaan (National Nutrition Mission) is scheme of Ministry of Women and Child Development.
- **POSHAN stands for - Prime Minister's Overarching Scheme for Holistic Nutrition**

140. Ans. A.

### Project Sashakt

- \* Project Sashakt is a five-pronged strategy to resolve bad loans.
- \* With the larger ones going to an asset management company (AMC) or an alternative investment fund (AIF).

The panel under the chairmanship of Punjab National Bank (PNB) non-executive chairman Sunil Mehta has recommended an asset management company/alternative investment fund (AIF)-led resolution approach to deal with NPA cases of more than **Rs 500 crore**.

- The panel has also suggested a plan for dealing with bad loans up to Rs 50 crore. Under the **SME Resolution Approach (SRA), loans up to Rs 50 crore** would be dealt using a template approach supported by a steering committee.
- The panel has recommended that the resolution should be non-discretionary and completed in a time bound manner **within 90 days**.
- The Mehta committee has proposed a Bank Led Resolution Approach (BLRA) for loans between Rs 50 and Rs 500 crore. This segment has an exposure of over Rs 3 lakh crore.

141. Ans. B.

National Mission for Clean Ganga (NMCG) is running "Ganga Vriksharopan Abhiyan" in five main stem Ganga basin states – Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal.

The campaign, which has been initiated as part of the Forest Interventions in Ganga (FIG) component of Namami Gange programme, is significant as it aims to bring greater awareness among people and other stakeholders regarding the importance of afforestation for the task of Ganga Rejuvenation.

142. Ans. C.

Rashtriya Gram Swaraj Abhiyan (RGSA) is a scheme to strengthen the Panchayati Raj system in the country. The scheme is implemented by both the center and government across India.

Note:

- In April 2018, **Prime Minister Narendra Modi** launched the 'Rashtriya Gram Swaraj Abhiyan' (RGSY) in **Ram Nagar in Mandla district of Madhya Pradesh**.

The objective of the scheme is –

- (i) to enhance capacities and effectiveness of Panchayats and the Gram Sabhas.
- (ii) to strengthen the institutional structure for knowledge creation and capacity building of Panchayat.
- (iii) to create and strengthen democratic local self-government in areas where Panchayats do not exist.

143. Ans. A.

Under 'Income Tax Informants Reward Scheme' a person can get reward up to Rs. 50 lakhs for giving specific information about substantial evasion of tax on income or assets in India.

- **A reward of up to Rs 1 crore** - The tax department announced two reward schemes under which informants sharing 'specific information' about any Benami transaction or property could get a reward of up to Rs 1 crore.
- **A reward of up to Rs 5 crore** - Information on undisclosed black money stashed abroad could fetch up to Rs 5 crore for the informant.
- **Reward of up to Rs 50 lakh** - According to the department's announcement, the 'Income Tax Informants Reward Scheme' too has been amended, under which a person can get reward up to Rs 50 lakh for giving specific information about substantial evasion of tax on income or assets in India, which are actionable under the Income-tax Act, 1961.

144. Ans. B.

**Bank of Baroda** has signed an agreement with CDSL Commodity Repository (CCRL), thus becoming the first public sector bank to become the repository participant for pledge finance under the repository ecosystem for registered/accredited warehouses.

145. Ans. A.

In a unique ruling, the **Uttarakhand High Court** accorded the status of "legal person or entity" to animals in the State, saying "they have a distinct persona with corresponding rights, duties and liabilities of a living person.

146. Ans. E.

Telecom company Bharat Sanchar Nigam Limited (BSNL) unveiled the country's first internet telephony service, which will allow users to dial any telephone number in India through their mobile app and this will not require sim.

147. Ans. D.

The Election Commission of India (ECI) has organized a two-day "National Consultation on Accessible Elections," from the 3<sup>rd</sup> July 2018 in New Delhi.

The Election Commission of India conducted a mission 'leave no voter behind' has a special focus on "Persons with Disabilities" (PWD).

148. Ans. C.

Indira Gandhi International (IGI) Airport ranked among the World's top 20 busiest airports in the world in 2017. Delhi's Indira Gandhi International (IGI) Airport has climbed six positions to enter the club of the top 20 airports across the world, the Airport Council International's preliminary report on airport traffic for 2017 has stated.

**Hartsfield-Jackson Atlanta Airport in the United States** with 104 million passengers secured the top spot, followed by Beijing at the second position and Dubai at the third. The ACI predicted that India will represent the third-largest aviation market in terms of passenger throughput after the US and China by 2020.

149. Ans. C.

Gross national product (**GNP**) is a broad measure of a nation's total economic activity. **GNP** is the value of all finished goods and services produced in a country in one year by its nationals

150. Ans. D.

Chief Statistician of India and Secretary is the Chairman of high-level sterling committee periodically reviewing and refining the rational indicator framework for monitoring Sustainable Development Goals (SDGs).

The Union Cabinet chaired by the Prime Minister Shri Narendra Modi has approved the constitution of a High-Level Steering Committee for periodically reviewing and refining the National Indicator Framework (NIF) for monitoring of Sustainable Development Goals (SDGs) with associated targets.

The High-Level Steering Committee will be chaired by **Chief Statistician of India and Secretary**, Ministry of Statistics and Programme Implementation (MoSPI), with the Secretaries of data source Ministries and NITI Aayogas members and Secretaries of other related Ministries as special invitees, with function of reviewing of National Indicator Framework including refinement of the indicators from time to time.

151. Ans. C.

The Economic Survey 2018 has thrown up unprecedented data that creates a picture of which states contribute to India's international exports. It turns out, just five states account for a colossal 70 per cent. Another major trend the data showed was that coastal states made up close to three-fourths of all exports from India.

Maharashtra (22.3%), Gujarat (17.2%), Karnataka (12.7%), Tamil Nadu (11.5) and Telangana (6.4) were the top five states when it came to exports. Haryana (4.9%) came next, bringing up the cumulative to 75 per cent to total exports.

152. Ans. B.

An emerging market economy is highly classified with relatively Fast Economy Growth.

**An emerging market economy** describes a nation's **economy** that is progressing toward becoming more advanced, usually by means of **rapid growth** and industrialization. These **countries** experience an expanding role both in the world **economy** and on the political frontier.

153. Ans. A.

The Central Government has proposed to liberalise the export of agricultural commodities as it sets an annual export target of \$100 billion as against the current export value of \$30 billion.

154. Ans. A.

The Reserve Bank of India has asked banks authorised to deal in foreign exchange (Authorised Dealer-I Banks) to

share data with the Directorate of Revenue Intelligence (DRI).

This directive comes in the wake of the government making rules (in December 2017) to exercise powers conferred by the relevant sections of the Customs Act, requiring a banking company to furnish, electronically, information relating to foreign exchange transactions made or received by any person to the receiving authority (DRI).

DRI is the apex intelligence and investigative agency for matters relating to violation of the Customs Act.

Under the new rules, in the case of inward remittances, the agency can seek information relating to a remittee's name, address, permanent account number (PAN), Goods and Service Tax Identification Number (GSTIN), Aadhaar number, bank account number and Indian Financial System Code (IFSC) as also remitter's details relating to name, address, and SWIFT-BIC (Society for Worldwide Interbank Financial Telecommunication – Bank Identifier Code).

155. Ans. B.

UN member countries are expected to present their Voluntary National Review (VNR) on the implementation of Sustainable Development Goals.

The voluntary national reviews (VNRs) aim to facilitate the sharing of experiences, including successes, challenges and lessons learned, with a view to accelerating the implementation of the 2030 Agenda. The VNRs also seek to strengthen policies and institutions of governments and to mobilize multi-stakeholder support and partnerships for the implementation of the Sustainable Development Goals.



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