

Solutions

1. Ans. E.

Floor numbered	Building A	Building B	Building C
12	Z		
11			
10			
9			
8	W/Q		
7		R	
6		Y	
5	Q/W		S
4		V	
3			U
2		T	
1	P		

Clearly, no one lives on the second floor of building A.

2. Ans. B.

Floor numbered	Building A	Building B	Building C
12	Z		
11			
10			
9			
8	W/Q		
7		R	
6		Y	
5	Q/W		S
4		V	
3			U
2		T	
1	P		

Clearly, there are 2 people who live in building C.

3. Ans. E.

Floor numbered	Building A	Building B	Building C
12	Z		
11			
10			
9			
8	W/Q		
7		R	
6		Y	
5	Q/W		S
4		V	
3			U
2		T	
1	P		

Clearly, none of the statements given are correct as per the final arrangement.

4. Ans. B.

Floor numbered	Building A	Building B	Building C
12	Z		
11			
10			
9			
8	W/Q		
7		R	
6		Y	
5	Q/W		S
4		V	
3			U
2		T	
1	P		

Clearly, there are 2 persons live between the floor on which Z and P live.

5. Ans. D.

Floor numbered	Building A	Building B	Building C
12	Z		
11			
10			
9			
8	W/Q		
7		R	
6		Y	
5	Q/W		S
4		V	
3			U
2		T	
1	P		

Clearly, there are 12, 7 and 9 floors exist in building A, B and C respectively.

6. Ans. A.

The correct answer is **option 1**, i.e. **None is strong**.

We first make sure to read the statement carefully and then see what immediate inferences can be drawn based on our first reading. The next step is to look at the arguments given in the options, analyze them and see if they seem relevant with respect to the information/data provided to us. Finally, it is very important to study the question closely.

Following the aforementioned steps we must analyze the given statement and the corresponding question closely.

Argument (I) captures the essence of the failure of the policies but does not provide answer to the question stated. It states people stood in queues outside the banks, whereas in the question we are asking the reason for the lack of bank branches'. As, it is not relevant with the question asked, it can be rejected.

Argument (II) states the fact about 'key slice of India's electorate' which is nowhere mentioned or can be derived from the given statement. Thus, it can be rejected.

Argument (III) is also inappropriate as it is opposite of the question asked. In the

question we are focused on the reason for the shortage of bank branches and services, it states that the accounts are inactive and many of the branches have not been used since a long time. Thus, diverting the question asked, it can also be rejected as an answer choice.

Thus, the correct answer is option 1.

7. Ans. D.

The correct answer is **option 4**, i.e. **All except III and II are strong**, i.e. **only I is strong**.

We first make sure to read the statement carefully and then see what immediate inferences can be drawn based on our first reading. The next step is to look at the arguments given in the options, analyze them and see if they seem relevant with respect to the information/data provided to us. Finally, it is very important to study the question closely.

The above statement deals with the fact that world's largest beer maker Heineken NV is looking for a new Chairman.

Argument (II) can be rejected as it explicitly states the fact that India barred willful defaulters from holding key positions last year, then why such a step is being taken at this point of time. It is thus, not relevant and can be rejected.

Argument (III) can be eliminated as answer choice as it states the fact that the company is functioning well and is in good shape. It is somewhat vague and moreover, not directed in the same sense as the given statement.

The issue is with the new Chairman.

Argument (I) is the most appropriate assumption based on the facts stated. It sheds light on to the fact that since, Heineken is looking for a new Chairman and is breaking all links with Vijay Mallya, and as a result has stopped sharing confidential information, a move indicating the action of searching or looking for a new Chairman.

Thus, option 4 captures the correct arguments that support the statement in the best possible manner and is our answer choice. Hence, rest of the options can be rejected.

8. Ans. E.

The correct answer is **option 5**, i.e. **None can be deduced**.

From the question, we must understand the meaning of the word, 'corollary'. A 'corollary' is a proposition that follows from (and is often appended to) one already proved. Thus, we must look for the option choice that logically follows the information given.

Following the steps we must analyse all the option choices carefully. (1) can be rejected on first reading as no information as such regarding the fact that appeals have been made to overseas Pakistanis to donate money for the dam. (2) can also be rejected as although it can be inferred that Islamabad was desperately wanting for an international funding for years but the fact that Pakistan is a disputed territory by the World and Asian Development Bank is not based on any strong evidence. Both (3) and (4) can also be rejected as nothing about the CPEC and the fact that officers have been told to donate money from their salaries, respectively is not evident from the facts stated.

As none of the option choices stated capture the essence of the statement thus, the most appropriate answer choice is option 5.

9. Ans. C.

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

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

10. Ans. B.

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

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. C.

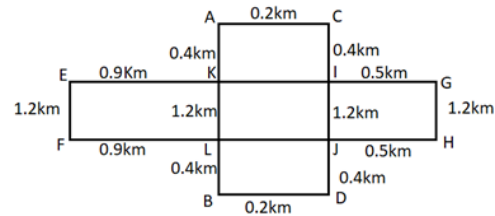
Given Series: \$ F 3 6 N @ 9 K T Q 5 C % 8 B # 7 D S * H 4 W L

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

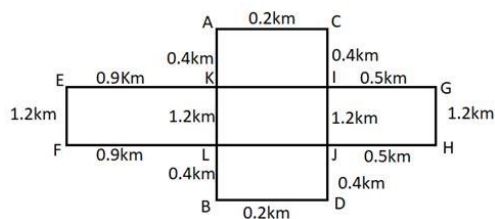
Step 2: \$ 3 F 6 N @ K T 5 Q C % B # D S * H 4 W 7 L 9 8

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

12. Ans. E.



13. Ans. C.



14. Ans. D.

In each step the numbers are arranged:

In Step 1: all the even numbers are multiplied with 2 and all the odd numbers are multiplied with 3

Step 2: Is given in the pattern as firstly the numbers are added and then subtracted respectively.

Step 3: Digits of each number is multiplied by itself.

Step 4: Each number is divided by 2.

Input: 44 37 61 56 32 83 12 75

Step 1: 88 111 183 112 64 249 24 225

Step 2: 199 72 295 48 313 225 249

Step 3: 81 14 90 32 9 20 72

Step 4: 40.5 7 45 16 4.5 10 36

15. Ans. D.

In each step the numbers are arranged:

In step 1: all the even numbers are multiplied with 2 and all the odd numbers are multiplied with 3

Step 2: Is given in the pattern as firstly the numbers are added and then subtracted respectively.

Step 3: Digits of each number is multiplied by itself.

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Step 4: 40.5 7 45 16 4.5 10 36

16. Ans. B.

In each step the numbers are arranged:

In step 1: all the even numbers are multiplied with 2 and all the odd numbers are multiplied with 3

Step 2: Is given in the pattern as firstly the numbers are added and then subtracted respectively.

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Input: 44 37 61 56 32 83 12 75

Step 1: 88 111 183 112 64 249 24 225

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Step 3: 81 14 90 32 9 20 72

Step 4: 40.5 7 45 16 4.5 10 36

17. Ans. E.

Persons	Birth Year	Age	Fruits
Tarun	1983	35	Apple
Manika	1962	56	Cherry
Visakha	2000	18	Orange
Charu	1995	23	Mango
Arko	1959	59	Grapes
Viraj	1935	83	Banana

18. Ans. E.

Persons	Birth Year	Age	Fruits
Tarun	1983	35	Apple
Manika	1962	56	Cherry
Visakha	2000	18	Orange
Charu	1995	23	Mango
Arko	1959	59	Grapes
Viraj	1935	83	Banana

19. Ans. A.

Persons	Birth Year	Age	Fruits
Tarun	1983	35	Apple
Manika	1962	56	Cherry
Visakha	2000	18	Orange
Charu	1995	23	Mango
Arko	1959	59	Grapes
Viraj	1935	83	Banana

20. Ans. D.

Persons	Birth Year	Age	Fruits
Tarun	1983	35	Apple
Manika	1962	56	Cherry
Visakha	2000	18	Orange
Charu	1995	23	Mango
Arko	1959	59	Grapes
Viraj	1935	83	Banana

21. Ans. B.

Persons	Birth Year	Age	Fruits
Tarun	1983	35	Apple
Manika	1962	56	Cherry
Visakha	2000	18	Orange
Charu	1995	23	Mango
Arko	1959	59	Grapes
Viraj	1935	83	Banana

22. Ans. C.

The correct answer is **option 3**, i.e. **For instance, a tub of popcorn in most multiplexes costs nearly two times the price of a movie ticket. This fact also reflects in the financial numbers of many multiplex companies.**

The focus in the above statement is on the multiplex industry generating income from popcorns. No matter the show goes flop or hit, popcorn satisfies a suitable income for the multiplexes. Based on the information stated, we must analyse all the option choices carefully.

(1) can be rejected as we are not concerned with the 'news sources of income' our primary focus is the association of popcorn sale with the multiplexes. Based on the similar grounds we can reject (2) and (4). Option (3) states a link between the popcorn sale and the income generated from that and is thus, a suitable deduction that can be made based on the information provided. Thus, the most appropriate answer is option 3.

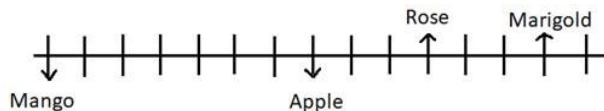
23. Ans. A.

The correct answer is option 1, i.e. Only conclusion 3 follows.

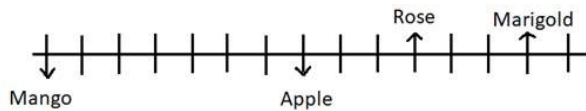
In this type of question, conclusion is not specifically mentioned. It needs to be deduced from the given statements.

From both the statements, we infer that Maharashtra has been badly affected because of the protest by farmers and as a result the agriculture ministry is planning to establish milk booths at railway stations. On the basis of the conclusions mentioned, we can reject both first and second conclusion as they are vague. On the basis of the two statements, we cannot conclude any information regarding the FSSAI and the fact that farmers are demanding a GST waiver. We know that they are protesting but the reason is not explicitly mentioned. As we cannot conclude anything which is not mentioned thus, both first and second conclusions can be rejected. Conclusion 3 is a very general conclusion that can be made on the basis of the information provided in the two statements, thus, we can mark it as a suitable conclusion. Thus, the most correct answer choice is option 1 and rest of the options can be rejected.

24. Ans. A.



25. Ans. C.



26. Ans. B.

S	Chair
Q	Wallet
R	Bag
P	Perfume
T	Table

27. Ans. D.

S	Chair
Q	Wallet
R	Bag
P	Perfume
T	Table

28. Ans. D.

Option D. is the correct answer as Shreya celebrates in February.

a) Rajat celebrates in the month of March.

MONTH	PERSON
January	
February	
March	Rajat
April	
May	
June	

b) Only 1 person celebrates between Rajat and Suresh.

We get 2 possible cases here:

Case 1:

MONTH	PERSON
January	Suresh
February	
March	Rajat
April	
May	
June	

Case 2:

MONTH	PERSON
January	
February	
March	Rajat
April	
May	Suresh
June	

c) Rajesh celebrates immediately before Rekha. And it is also given that, Suresh does not celebrate immediately before or immediate after Suresh.

Case 1(a):

MONTH	PERSON
January	Suresh
February	
March	Rajat
April	Rajesh
May	Rekha
June	

Case 1(b):

MONTH	PERSON
January	Suresh
February	
March	Rajat
April	
May	Rajesh
June	Rekha

Case 2:

MONTH	PERSON
January	Rajesh
February	Rekha
March	Rajat
April	
May	Suresh
June	

D. Saroj celebrates neither in June nor immediately after Suresh.

(so, case 1(a) gets eliminated here).

Case 1(b):

MONTH	PERSON
January	Suresh
February	
March	Rajat
April	Saroj
May	Rajesh
June	Rekha

Case 2:

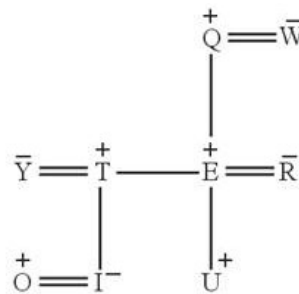
MONTH	PERSON
January	Rajesh
February	Rekha
March	Rajat
April	Saroj
May	Suresh
June	

E. Shreya celebrate before Saroj.

(so, case 2 gets eliminated here as it does not satisfy the condition).

MONTH	PERSON
January	Suresh
February	Shreya
March	Rajat
April	Saroj
May	Rajesh
June	Rekha

29. Ans. B.



30. Ans. E.

Five trains: Rajdhani express, Duranto express, Shatabdi express, Tejas express and Gareebrath.

Running between Delhi to Dehradun.

Five day: Monday, Tuesday, Wednesday, Thursday, Friday.

1) Two trains are running between Shatabdi and Duranto.

2) Shatabdi is going to Dehradun before Wednesday.

	Case - 1	Case - 2
Day	Trains	Trains
Monday		Shatabdi
Tuesday	Shatabdi	
Wednesday		
Thursday		Duranto
Friday	Duranto	

3) Tejas express is going to Dehradun immediate after Gareebrath.

4) Rajdhani is not running on Friday. (Hence, case - 2 will be eliminating)

Day	Trains
Monday	Rajdhani
Tuesday	Shatabdi
Wednesday	Gareebrath
Thursday	Tejas
Friday	Duranto

Hence, Gareebbrath is going to Dehradun on Wednesday.

31. Ans. B.

The correct answer is **option 2**, i.e. **The court was hearing a habeas corpus petition filed by the corporal's father, claiming his son was being illegally confined at the Army Base Hospital.**

Both options 3 and 4 can be rejected on first reading as they introduce an independent idea and we cannot deduce anything that is not mentioned thus, options 3 and 4 can be rejected. Option 1 can also be eliminated as we cannot predict the motive of the court with surety (mentioned as 'Court wants to make sure'). Since, no such information is evident from the statement, we can reject it. Option 2 makes a generalization that the court was hearing a petition filed by the corporal's family (hint: last sentence of the given statement). It is a perfect deduction that can be made based on the given information as it does not introduce any new idea nor violates any piece of information stated. Based on the above conclusions we can reject options 1, 3, 4 and 5 and thus, the most appropriate answer is option 2.

32. Ans. C.

The correct answer is **option 3**, i.e. **Amazon Prime Day is giving shoppers a very unusual - and tempting - deal in majority of the categories. Prime members can get their hands on a great deal of products that too at massive discounts.**

In the question it is stated that which of the following is a perfect conjecture, for understanding the question, we must first understand the meaning of the word '**conjecture**'. A '**conjecture**' is an opinion or conclusion formed on the basis of incomplete information or in simple words we must look for a suitable option that can be inferred from the given information.

We first make sure to read the statement carefully and then see what immediate inferences can be drawn based on our first reading. The next step is to look at the statements given in the options, analyze them

and see if they seem relevant with respect to the information/data provided to us.

From the statement, we can infer that Amazon is offering exclusive deals to its members in its 36-hour blockbuster sales event. From the option choices mentioned, we can infer that all except option 3 are vague and can be rejected.

Option 1 is about exact deal of 'BPL's side by side refrigerator' which is not backed up by any evidence from the given statement. Option (2) only talks about 'refrigerators' and as a result is very specific to just one product. Option (4) can also be rejected as no information regarding the delivery on 19 June is evident from the information provided. The option closest in meaning to this is option 3. All the other options seem irrelevant with respect to the data provided in the statement.

Hence, the correct answer is option 3.

33. Ans. B.

The correct answer is **option 2**, i.e. **Neither I nor III follows, i.e. only II follows.**

A course of action is something that needs to be done considering the present scenario in mind. From the statement, it is evident that India's secretive nuclear missile tracking ship, will get ready by this December.

From the options it is very much evident that even if one doesn't understand the statement given we can still mark the answer choice.

The hint is evident in the beginning of the second course of action where the word '**next step**' is mentioned. It clearly suggests that this is the appropriate course of action and also suggests that this is the next step which will include sea trials.

Both (I) and (III) can be rejected as (I) suggest what the vessel will do and does not suggest anything regarding the future course of action regarding the tracking ship. (III) is a very generic statement regarding the ship and in no way suggest a possible course of action thus, it can also be rejected.

Thus, all the course of actions stated except (II) are irrelevant and can be rejected.

34. Ans. A.

The correct answer is **option 1**, i.e. **In India, Netflix competes with a host of OTT players, including Amazon Prime Video and Star TV-run Hotstar that charge lower subscription fees.**

We first make sure to read the statement carefully and then see what immediate inferences can be drawn based on our first reading. The next step is to look at the statements given in the options, analyze them and see if they seem relevant with respect to the information/data provided to us.

Option 1 is the most evident answer choice and is a perfect deduction that can be made from the given statement. From the statement it is evident that Netflix is competing with many players that offer subscription at low charges. The hint to this is evident from the statement which says 'may enter lower priced segments to attract new subscribers', from this we can deduce that earlier it was not charging as low as its competitors but now it may bring down its prices to compete with the other players. Option 2 and 3 can be rejected because we cannot deduce anything from our side and the information provided in both the assumptions cannot be deduced from the given statement.

Option 4 can also be rejected as it is also not based on the information stated and states an independent fact regarding the growth patterns.

The option closest in meaning to this is option 1. All the other options seem irrelevant with respect to the data provided in the statement.

Hence, the correct answer is option 1.

35. 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.

36. Ans. B.

Edwin is six years older than Chetan. The possible ages are (45,39) and (54,48).

Gurdeep is three years younger than Abhishek. The possible ages are (36,39), (45,48) and (54,57)

Fawad is in his fifties and is younger than Harsh. It means both of them are in fifties and thus, Gurdeep and Abhishek cannot be aged (54,57).

If Edwin and Chetan are (45,39), the pairs of ages of Gurdeep and Abhishek is not possible.

Hence, Edwin and Chetan are (54,48) and Gurdeep and Abhishek are (36,39). Also, Fawad must be 57 and Harsh 59. Bardhan is in his thirties, so he must be 38.

Person	Age
Gurdeep	36
Bardhan	38
Abhishek	39
Darshan	45
Chetan	48
Edwin	54
Fawad	57
Harsh	59

If one of Edwin and Chetan is in the cabinet, the other must be in the cabinet.

Case I: Both Edwin and Chetan are in the cabinet.

Since Edwin is in the cabinet, Harsh must be in the cabinet. This implies Abhishek is also in the cabinet.

Since Chetan is in the cabinet, Darshan

cannot be in the cabinet. This implies Fawad is also not in the cabinet.

Since Harsh is in the cabinet, Bardhan cannot be in the cabinet.

So, the members of the cabinet are: **Abhishek, Chetan, Edwin, Gurdeep and Harsh.**

Case II: Neither Edwin nor Chetan is in the cabinet.

Bardhan will be in the cabinet only if Harsh is not in the cabinet. Suppose Bardhan is in the cabinet, then Harsh cannot be in the cabinet and vice versa.

But both Edwin and Harsh cannot be out of the cabinet as the cabinet has at least two ministers who are in their fifties.

So, the members of the cabinet are: **Abhishek, Darshan, Fawad, Gurdeep and Harsh.**

The cabinet can be selected in 2 ways

37. Ans. A.

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Fawad is in his fifties and is younger than Harsh. It means both of them are in fifties and thus, Gurdeep and Abhishek cannot be aged (54,57).

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Hence, Edwin and Chetan are (54,48) and Gurdeep and Abhishek are (36,39). Also, Fawad must be 57 and Harsh 59. Bardhan is in his thirties, so he must be 38.

Person	Age
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So, the members of the cabinet are: **Abhishek, Chetan, Edwin, Gurdeep and Harsh.**

Case II: Neither Edwin nor Chetan is in the cabinet.

Bardhan will be in the cabinet only if Harsh is not in the cabinet. Suppose Bardhan is in the cabinet, then Harsh cannot be in the cabinet and vice versa.

But both Edwin and Harsh cannot be out of the cabinet as the cabinet has at least two ministers who are in their fifties.

So, the members of the cabinet are: **Abhishek, Darshan, Fawad, Gurdeep and Harsh.**

In either case, Bardhan is not in the cabinet.

38. Ans. D.

Six persons: A, B, C, D, E and F.

Six different shoes brands: Adidas, Fila, Lotto, Nike, Puma and Reebok.

Six different costs: s.1700, Rs.2200, Rs.2500, Rs.2700, Rs.3000 and Rs.3600.

From statement I: E bought Lotto shoes. C did not buy Fila shoes. A did not buy Nike shoes. The difference in cost of shoes that A bought and Adidas shoes is Rs.800.

Persons	Shoes brands	Costs
A	×Nike	
B		
C	×Fila	
D		
E	Lotto	
F		

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

From statement II: F bought Reebok shoes, which costs Rs.3600. D did not buy Adidas shoes or Puma shoes. The cost of Puma shoes is Rs.2500. The cost of Nike shoes is more than that of A and C's shoes. The cost of shoes that C bought is more than that of E's shoes.

Persons	Shoes brands	Costs
A		
B		
C		
D	*Adidas, *Puma	
E		
F	Reebok	Rs.3600

Hence, statement II alone is not sufficient to answer the question.

From statement III: D bought shoes for Rs.2700, which were not of Fila. A and C did not buy Adidas shoes. E bought shoes worth lowest price. The cost of C's shoes is more than that of A's shoes but less than F's shoes. F bought Reebok shoes.

Persons	Shoes brands	Costs
A	*Adidas	
B		
C		
D	*Fila	Rs.2700
E		Rs.1700
F	Reebok	

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

On combining I and II,

Persons	Shoes brands	Costs
A	Fila	Rs.2200
B	Adidas	Rs.3000
C	Puma	Rs.2500
D	Nike	Rs.2700
E	Lotto	Rs.1700
F	Reebok	Rs.3600

Therefore, statements I and II together are sufficient to answer the question.

On combining I and III,

Persons	Shoes brands	Costs
A	Fila	Rs.2200
B	Adidas	Rs.3000
C	Puma	Rs.2500
D	Nike	Rs.2700
E	Lotto	Rs.1700
F	Reebok	Rs.3600

Therefore, statements I and III together are sufficient to answer the question.

On combining II and III,

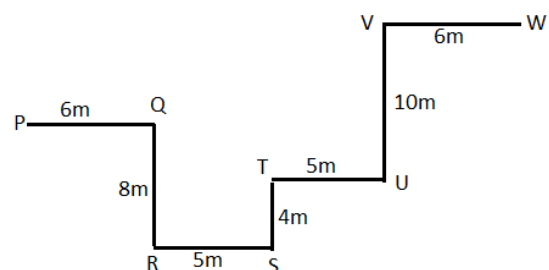
Persons	Shoes brands	Costs
A	*Nike, *Adidas	
B		
C	*Nike	
D	*Fila, *Adidas, *Puma	Rs.2700
E	*Nike	Rs.1700
F	Reebok	Rs.3600

Therefore, statements II and III together are not sufficient to answer the question.

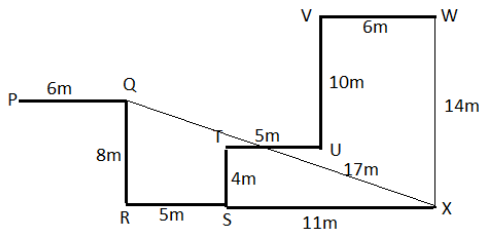
Hence, Either I and II or I and III together are required.

39. Ans. D.

From data given in the question:



From statement I: From point W, the person moves towards south and walks for 14m till point X.



$$QR = 8m$$

$$RX = 15m$$

Using Pythagoras theorem:

$$QX^2 = \sqrt{QR^2 + RX^2}$$

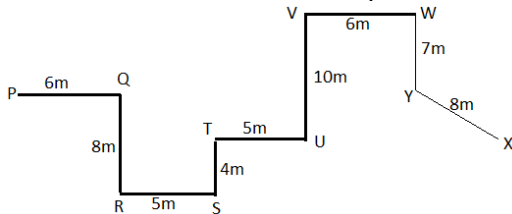
$$= \sqrt{8^2 + 15^2}$$

$$= \sqrt{289}$$

$$= 17m.$$

Hence, statement I alone is sufficient.

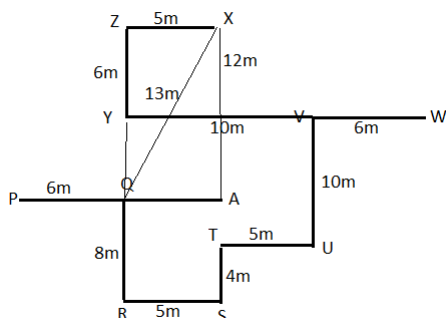
From statement II: From point W, the person moves towards south and walks for 7m till point Y, then he move towards south-east direction for 8m and reach point X.



Here, distance between Q and X is not integer.

Hence, statement II alone is not sufficient.

From statement III: From point W, the person moves in east direction for 16m and stopped at point Y, he then moves in north direction for 6m till point Z. From point Z, he moves 5m in east direction till point X.



$$RS = ZX = QA = 5m$$

$$AX = 12m$$

Using Pythagoras theorem:

$$QX^2 = \sqrt{QA^2 + AX^2}$$

$$= \sqrt{5^2 + 12^2}$$

$$= \sqrt{169}$$

$$= 13m.$$

Hence, statement III alone is sufficient.

Hence, data in statement I and III alone is sufficient to answer the question.

40. Ans. E.

Option e) is the correct answer. Both Statements I and III are necessary to answer the question.

Using statement I and II :

* F faces outside and H, who likes Red sits immediate right of F.

* B, who likes Green sits second to the left of F.

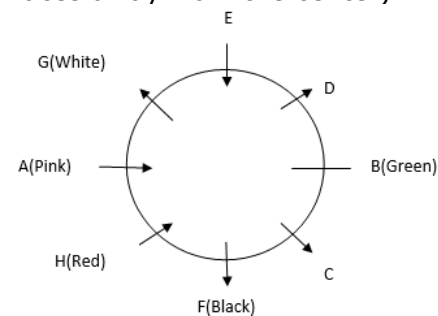
* A sits second to the right of F, who sits third to the left of G(so, G faces away from the centre) and it is also given that G likes White and sits second to the left of one who likes Red (so, person who likes Red faces towards the center).

* Person who likes Red sits third to the right of E(so, E faces towards the center).

* F sits third to the right of D (so D faces away from the center).

* A, sits second to right of one who likes Black, who sits immediate right of one who likes Red"(so, F must like Black).

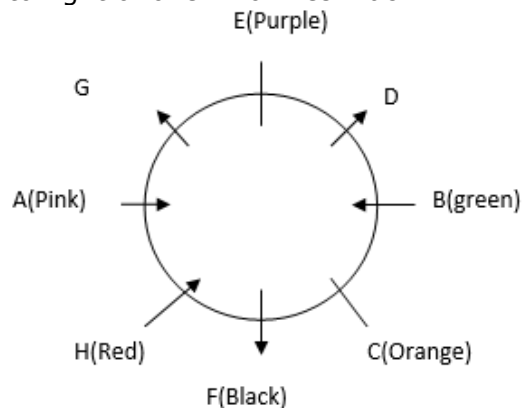
* B sits immediate left of C, who sits third to the right of one who likes Pink (so, C must faces away from the center).



Therefore, both I and II are not sufficient to answer the question.

Using statement II and III:

- * F faces outside and H, who likes Red sits immediate right of F.
- * B, who likes Green sits second to the left of F.
- * one who likes Pink sits second to the right of F.
- * Person who likes Black sits immediate right of one who likes Red.(only possibility is F likes Black).
- * One who likes Purple sits second to the right of one who likes Green.
- * F sits third to the right of D and it is also given that one who likes Green, who sits immediate right of D, who faces away from the center.
- * H sits second to the left of G, who sits third to the right of one who likes Black.
- * E sits second to the left of A, who sits second to right of one who likes Black.



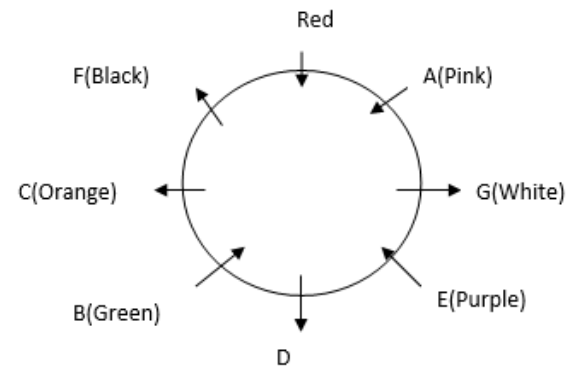
Therefore, II and III statements together are not sufficient to answer the question.

Using statements I and III:

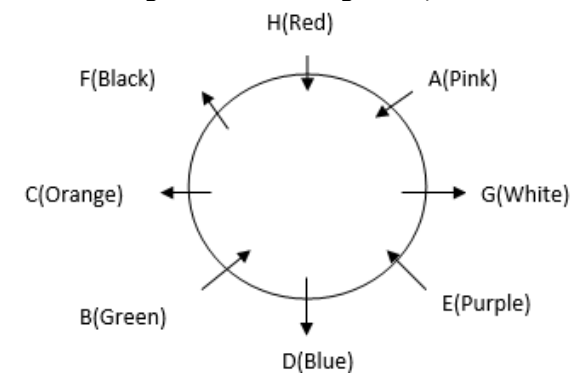
- * D faces away from the centre.
- * One who likes Green sits immediate right of D.
- * F sits third to the right of D. And also F sits third to the left of G(so, G must face away from the centre).
- * One who likes Pink sits second to right of F.
- * C sits third to the right of one who likes Pink and it is also given that C likes Orange.
- * B sits immediate left of C (so, C must face outside).
- * G likes white and sits second to the left of one who likes Red, who sits third to the right of E.
- * A sits second to the right of F.

* G, who sits third to the right of one who likes Black. (so, F must like Black).

* One who likes Purple sits second to the right of one who likes Green, who sits immediate right of D. (so, E must like Purple).



After filling the remaining data,



Therefore, using I and III statement, we get the required answer.

Hence, both statements I and III are necessary to answer the question.

41. Ans. A.

Six employees: A, B, C, D, E and F.

Different number of mails: 15, 20, 30, 50, 60 and 70.

From statement I:

E is taller than only D and F. C is the tallest among all but does not get lowest number of mails. A gets half number of mails than that of B gets.

From the given information,

$C() > _{()} > _{()} > E() > D/F() > F/D()$

So, either F or D is the shortest.

So, statement I alone is not sufficient.

From statement II:

A is taller than B. The sum of mails of A and E is equal to the number of mails that D gets. The one, who gets 50 mails is not the shortest. D does not get the highest number of mails.

From the given information,

A and E get (20) and (50) mails but not necessarily in same order. Also, D gets (70) mails every day.

We cannot determine who among the following is the shortest.

So, statement II alone is not sufficient.

From statement III:

A does not get 15 mails. B is not taller than A. D gets more mails than that of E but less than C.

From the given information,

We cannot determine who among the following is the shortest.

So, statement III alone is not sufficient.

On combining I and II:

We get,

$C(70) > A(30) > B(60) > E(20) > D(50) > F(15)$

So, F is the shortest and D gets 50 mails every day.

Therefore, statement I and II together are sufficient.

On combining I and III:

We get,

$C() > A(30) > B(60) > E() > F/D() > D/F()$

So, either F or D is the shortest.

Therefore, statement I and III together are not sufficient.

On combining II and III:

We cannot determine, who is the shortest.

Therefore, statement II and III together are not sufficient.

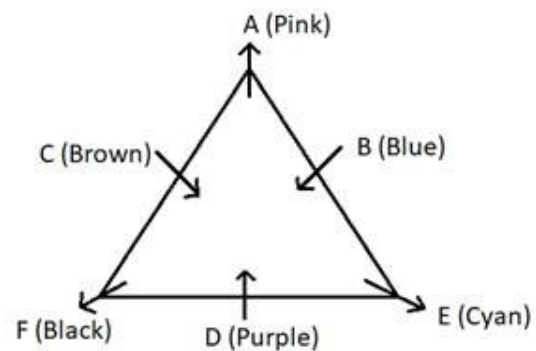
Hence, the data in statement I and II together are required to answer the question.

42. Ans. D.

The place value of each letter in the word according to the alphabetical series.

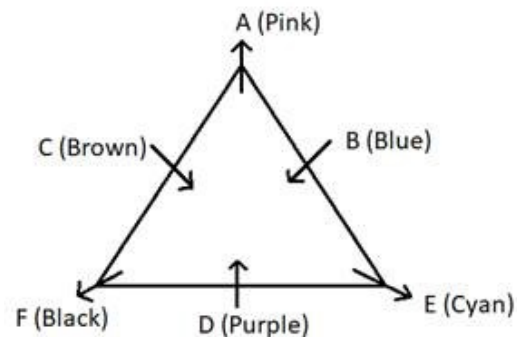
AM- 113 (A-1, M-13=113)

43. Ans. E.



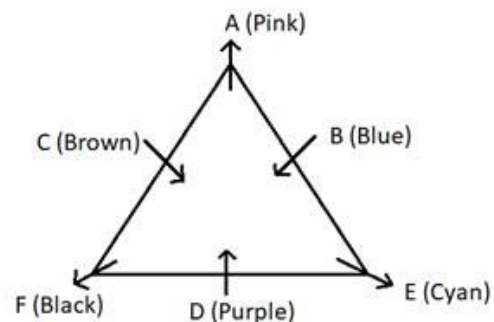
Clearly, D likes purple colour.

44. Ans. D.



Clearly, B sits 2nd to the right of the one who is 3rd to the left of A.

45. Ans. A.



Clearly, C sits to the immediate right of the one who likes black colour.

46. Ans. D.

The given statement states that the latent reason behind the number of people who died of starvation is the requirement of mandatory Aadhaar authentication. So, such requirements cause exclusion and should not be allowed.

Inference I: Aadhaar seeding is a process by which Aadhaar numbers of residents are included in the service delivery database of service providers for enabling deduplication of database and Aadhaar based authentication during service delivery. So, basically, it is the process of linking Aadhaar card with other government official documents like pan card, voter ID card and also with the individual's bank account. So, this statement cannot be inferred from the given statement.

Inference II: The statement can be inferred from paragraph 3, but not from the given statement. As the given statement neither explicitly states that they were 'denied rations from the Public Distribution System shops' nor can it be deciphered. So, this statement can't be inferred from the given statement.

47. Ans. D.

I and III: They can be inferred from the following lines, 'The death of these children follows a series of reports of alleged starvation deaths over the last six months, mostly from Jharkhand but also from other states such as Karnataka, Chhattisgarh and Uttar Pradesh. In each of these cases, fact-finding reports and newspaper stories have documented failures of the system in reaching entitlements to the affected families.'

II and IV: The paragraph states 'The National Food Security Act (NFSA) includes provisions for subsidised grains from the public distribution system (PDS), school meals for schoolgoing children, maternity entitlements and supplementary nutrition for young children through Anganwadi centres. A fact-finding report prepared by the Delhi Rozi Roti Adhikar Abhiyan revealed that while these services were available in the area, the girls and their parents did not have access to any of these in the months preceding their deaths. This was **presumably** because it was more difficult for them to get enrolled as they were migrants and did not have the necessary documents.'

From the above-mentioned paragraph, one can infer option IV, but not option II.

'Presumably' is used to convey that what is asserted is very likely, though not known for certain. This means that maybe these services were not accessible to them because it was more difficult for them to get enrolled as they were migrants and did not have the necessary documents, not because the supply of the ration is not allowed to migrants by the NFSA.

Therefore, option D is the apt answer.

48. Ans. C.

Precarious refers to something not securely held or in position; dangerously likely to fall or collapse. It also means 'dependent on chance; uncertain.'

Option A: Dubious means feeling doubt or not feeling certain. So, it is a synonym of precarious.

Option B: Secure means certain to remain safe and unthreatened. So, it is an antonym of precarious.

Option C: 'Arcane' refers to someone/something mysterious or secret and known only by a few people.

Option D: 'Sound' means in good condition; not damaged, injured, or diseased.

Option E: 'Parlous' means full of danger or uncertainty. So, it is a synonym of precarious.

Therefore, option C is the apt answer.

49. Ans. C.

From the paragraph 1, one can decipher that the development model of India was based on Industrial capitalism. After independence, India gave the highest priority to industrial development. But in contrast (paradox) to this, now India has become a consumer capitalist economy.

Option A: Crony socialism to stigmatised capitalism means the shifting of the economy from government-controlled to owned and controlled by a few individual people and disregarding the interests of the common people. So, it does not present a contrast to the given statement.

Option B: Clearly, this is not the opposite of the given statement.

Option C: This statement says that the development model itself was based on consumer capitalism, which has been achieved. So, this statement presents a contrast to the given statement.

Option D: Clearly, this statement too does not present a contrast to the given statement as we are.

Option E: This statement is similar to the given statement as India did opt for a dirigiste model of industrial capitalist development. Therefore, option C is the apt answer.

Note- Consumer capitalism is a theoretical economic and social-political condition in which consumer demand is manipulated, in a deliberate and coordinated way, on a very large scale, through mass-marketing techniques, to the advantage of sellers. According to the given sentence, India has moved from industrial capitalism to consumerism, something which is instigated by the suppliers.

50. Ans. A.

Paragraph 3 states all the reasons that lead to cases of alleged starvation deaths. The heart of all these reasons is the weak system of entitlements provided by the state. The paragraph 4 focuses more on the current economic model of India and its flaws. The connective sentence should be a blend of these two paragraphs. Only option II presents this fusion. Options I and III only connect with the paragraph 4. Therefore, option A is the apt answer.

51. Ans. B.

Option I: Dystopian relates to a state in which everything is unpleasant or bad. A dystopia is a community or society that is undesirable. The statement says that poor who are living in urban areas, such as New Delhi, are undesirable. They are living in terrible condition. This can be considered the author's viewpoint with respect to the first sentence of paragraph 1.

Option II: India has failed to address the gruelling poverty suffered by millions that's why the author says that it raises a number

of questions on the failure of the state to protect its citizens from hunger 70 years after independence.

Option III: Clearly, this is not the author's viewpoint with respect to the paragraph 1.

Option IV: This sentence is ambiguous. Therefore, option B is the apt answer.

52. Ans. E.

Options A, C and D: These sentences do not fit with the sentence succeeding the highlighted statement.

Option B: Paragraph 4 is about 'inequity in the current economic model,' not about the social security facilities. (Refer to the solution of Q5)

Option E: The sentence fits perfectly in the context of the passage.

Therefore, option E is the apt answer.

53. Ans. A.

Assumption I: If marginalised people have access to social sector schemes, then they can be saved from protracted periods of hunger. As protracted periods of hunger can cause death, this assumption can be considered correct.

Assumption II: This is not an assumption, it is an inference. Thus, this assumption is incorrect.

Therefore, option A is the apt answer.

54. Ans. B.

The phrase 'conspicuous by its absence' in the given context of the passage means that the state is 'obviously not present where one or it should be.' Therefore, option B is the apt answer.

55. Ans. E.

All the options can be deciphered from the paragraph 3 except option E. The paragraph states 'A truly universal system of social security that pays special attention to reaching out to the most vulnerable communities **needs to be put in place.**'

'Put in place' means positioned something correctly; returned to its proper location or place. This means that the universal system of social security has been already present and does not need to be established.

Therefore, option E is the apt answer.

56. Ans. A.

Note that in the given question we are required to find a segment which when put in the blank will render the first part of the sentence incorrect. So we can either look for the segment which will make a contextual error or one which causes a grammatical error in the asked part. So let's first read the sentence and the options thoroughly. The first statement mentions that protests were started **after** the Sterlite announcement was made. But the first option mentions the word "before" to indicate the time of the initiation of the protests, which renders the first part of the sentence contextually incorrect. All the other options fit appropriately in the blank and help in rendering a logical meaning to the whole sentence. Thus, option A is the correct answer.

57. Ans. B.

Note that in the given question we are required to find a segment which when put in the blank will render the second part of the sentence incorrect. So we can either look for the segment which will make a contextual error or one which causes a grammatical error in the asked part. So let's first read the sentence and the options thoroughly.

"Fiduciaries" means "trustees". The sentence implies that a particular law will apply to the trustees outside India only if they are of two kinds- one of them being those who are doing business with India. We need to find out the other group. Now, when it is being said in part 2 that a law would be applied to someone, we can infer that it would be valid only when someone does something that harms the nation in some way. Options A, C and D mention such circumstances under which the laws would be applied. Thus, all these options make the sentence as well as part 2 correct. Only option B mentions a circumstance where the laws of the country are preserved, hence, there would be no application of the law. So option B becomes our answer.

58. Ans. A.

Note that in the given question we are required to find a segment which when put in

the blank will render the first part of the sentence incorrect. So we can either look for the segment which will make a contextual error or one which causes a grammatical error in the asked part. So let's first read the sentence and the options thoroughly.

Here we can have a grammatical error. Since the first part is in the simple future tense, the rest of the sentence should be structurally similar and thus the same tense should be used throughout. All the options except A use the simple future tense (option D uses the passive form of the simple future tense), thus rendering the whole sentence and part A correct. However, if option A is put in the blank, the first part of the sentence will become incorrect.

59. Ans. E.

Note that in the given question we are required to find a segment which when put in the blank will render the first part of the sentence incorrect. So we can either look for the segment which will make a contextual error or one which causes a grammatical error in the asked part. So let's first read the sentence and the options thoroughly.

If the segments mentioned in all the options are put in the blank, the sentence would be grammatically and contextually correct. The simple present tense, the present perfect tense as well as the present perfect continuous tense would fit with the phrase "recently revealed" as the equipment could be supplied in the present time or since some time in the past. Also, there may be certainty as well as uncertainty about the supply. Thus, option E is the correct answer.

60. Ans. C.

Note that in the given question we are required to find a segment which when put in the blank will render the first part of the sentence incorrect. So we can either look for the segment which will make a contextual error or one which causes a grammatical error in the asked part. So let's first read the sentence and the options thoroughly.

Note that "food economy", as mentioned in the first part of the sentence, is a singular subject, which would take a singular verb in

part 2. All the options except C use a singular verb. So they make part 1 correct. "Play" is a plural verb, which renders part 1 incorrect as the subject must change to the plural accordingly- "The informal food economies, which fall outside official regulation". Thus, option C is the correct answer.

61. Ans. B.

The given statement which needs to be placed in the passage talks about development of clean alternatives to coal, oil and gas. Thus, it should be placed after the second statement of the passage which talks about the requirement for the decarbonisation of the economy with alternatives to alternatives for coal and cars that run on diesel. Thus, option B is the correct answer.

62. Ans. C.

The first and the second statement are in logical order as the first talks about the invention of "nationalism" in Europe and the second talks about the model of nationalism. The third sentence is also in the proper order as at it lays down the first criteria to be a "British". Here the usage of "so" indicates that it is the first sentence in the sequence of the given sentence and the last one which mentions "finally". Hence, the given sentence should replace (3) to make the sentence complete and coherent.

63. Ans. D.

Refer to the last sentence in the series.

64. Ans. E.

Refer to the last question in the series.

65. Ans. B.

The passage is on corruption, so either C or E could logically be the opening lines of the passage. The other options start with such conjunctions and connectors, which indicate that they are the continuation of other statements. Between C and E, the latter should be the first sentence as it lays down the argument that corruption affects human rights and C takes the idea forward towards a resolution. So, E and C for the first and the second sentence respectively. Having found the first and the second sentence, and having the fourth sentence fixed, we need to

look for the third sentence. D mentions the phrase, "Because of this dozens of children were given false cancer treatments"; so we need to find the specific reason. F carries this reason for the consequence mentioned in D. Thus, F is the third sentence. Now we are left with only A and B, and B follows A as it concludes the passage by stating how the anti-corruption community helped in raising awareness. So, the correct sequence would be ECFDAB.

66. Ans. C.

'Underdevelopment' and 'accelerated progress' are opposing factors and when opposing factors interact a 'clash' or 'crossfire' occurs. Thus, both i and ii can be used to fill the first blank. The second blank should have the alternative iii in it as 'new urban reality' is being formed because of the interactions of various factors. Thus, option D can be negated. 'Transitions' mean a period of change. 'Translations' mean the process of changing text from one language to another. Hence, keeping in context to the sentence, alternative v is a better fit answer for the third blank. Only option C has alternative v as its choices along with iii and i. This makes option C the correct answer.

67. Ans. D.

The given passage is about a project for urban development in China. Thus, the first blank should have the word 'urbanization' in it as it refers to the process of making an area more urban. So, options B and C can be negated as they don't have alternative ii. The second blank is preceded by the word 'strategy' which refers to a plan of action designed to achieve a long-term or overall aim. Thus, this plan needs to be made. 'Speculated' means to form a theory without substantial evidence. 'Formulated' means to create or prepare methodically. 'Forecasted' means to predict or estimate. Thus, 'formulated' is the correct word for the given second blank as it would indicate that the said 'strategy' is being created or prepared. Since alternatives ii and iv have to be used, it remains to be seen if alternative vi can fit the third blank. The mentioned 'strategy' as

per the passage is not only required for sustainable cities but also for a developed urban society. 'Necessity' means the state or fact of being required and is the correct word for the given blank. This makes option d the correct answer.

68. Ans. A.

The given passage is about a certain paradigm. The attention it receives should be growing to make it an important factor to garner worldwide attention at a growing pace. Thus, the first blank should have 'increased' in it with reference to the context. This makes options A and D viable. The first sentence states that the paradigm helps to achieve 'sustainable development'. The second blank should thus have 'contributes' in it as it means help to cause something. Thus, alternative ii should go in the second blank. 'Dwindled' means to decrease and cannot be used in any of the blanks making option d null. 'Verified' means to make sure or demonstrate that (something) is true, accurate, or justified and is the correct fit for the third blank. Thus, option a is the correct answer.

69. Ans. E.

Alternatives i, ii and vi are synonyms and can be used to fill the first blank. Alternatives iii, iv and v are synonyms and can be used to fill the second blank. But no word in the given alternatives can be utilized to fill the third blank as it needs a name of a subject to maintain continuity. Thus, option E is the correct answer.

70. Ans. D.

One can clearly decipher that to connect these two sentences, the starter should be such that it joins the two sentences without undermining the meaning conveyed by both the parts of sentences given in the question. 'Though the truck companies categorized that deregulation of airlines' makes no sense in the context of the sentences. So, option II can't be used.

One can't say 'worldwide perspective' from the given sentences. So, option III can't be used.

New statement:

Deregulation of airlines on the watch of Democratic President Jimmy Carter took place at the same time when the once unionised truck drivers became independent contractors, the only difference being that they did not bargain for the pay and benefits with their employers as was done by the latter.

71. Ans. A.

Because of 'after the war,' both options I and II can be used. 'On the eve of' is a phrase which means 'on the day before an important event, or during the period of time just before it.' So, option II basically means 'before the war.' Annexation is the administrative action and concept in international law relating to the forcible transition of one state's territory by another state. It is generally held to be an illegal act. The sentences are not about any annexation instead they are about soybean trade. So, option III can't be used.

Therefore, option A is the apt answer.

New statements:

Before the end of the war Japan was dependent on occupied Manchuria and colonized Korea for its soybean supply and after the war, the U.S. required that Japan reconfigure its trade ties towards itself and its bloc, away from China and Korea as the Cold War progressed.

On the eve of war Japan was dependent on occupied Manchuria and colonized Korea for its soybean supply and after the war, the U.S. required that Japan reconfigure its trade ties towards itself and its bloc, away from China and Korea as the Cold War progressed.

72. Ans. E.

None of the mentioned options helps in connecting the sentences. Also, one can say that the two sentences can't be connected. Therefore, option E is the apt answer.

73. Ans. B.

Option A: This option is ambiguous.

Option B: It can be deciphered from the following line, 'The Chinese government imposed limits on plastic waste imports – **which were largely recycled into new products.....**'

Option C: It can't be deciphered from the passage.

Option D: The passage states '...However, Japan is in no position to suddenly expand its capacity to recycle plastics, and a lot of the waste ends up at landfills or incinerators.' An Incinerator is an apparatus for burning waste material, especially industrial waste, at high temperatures until it is reduced to ash. So, the option is the opposite of what mentioned in the passage.

Option E: It is an effect, not the reason. Therefore, option B is the apt answer.

74. Ans. C.

I: This can be considered as the reason. If Japan exports most of its plastic waste, then it will be left with a small quantity of plastic waste to be recycled.

II: It is stated in the following line, 'Japanese waste management firms do not have the specialist equipment to recycle these plastics,...'

III: The passage states 'Japanese waste management firms do not have the specialist equipment to recycle these plastics, and consequently many no longer accept such shipments because they have nowhere to store it.' This means firms no longer accept used plastic, not Japan. So, this option can't be used.

IV: It is stated in the following line, 'Japan's Reduce-Reuse-Recycle (3Rs) policy — while incredibly successful at promoting recycling in Japan — caused a decline in the domestic plastic recycling business.'

V: The correct statement is 'despite high levels of participation in Japan's recycling initiatives, efforts to reduce the use of plastic products in the country are failing.' This means efforts to reduce the use of plastic are failing.

Therefore, option C is the apt answer.

75. Ans. D.

'...Japan should introduce regulations on the use of plastic products by prohibiting the sale — or charging a fee — for single-use plastics such as bags, cups and drinking straws. In 2002 Ireland became the first country to introduce a plastic bag tax, leading to a 90

per cent drop in use equaling a reduction of more than 1 billion bags. The tax collected was funnelled into a green fund to support environmental projects. Rwanda also introduced a ban on the sale, manufacture, use, and import of plastic bags in 2008. The ban led to cleaner cities with less trash, less environmental damage caused by plastic waste and increased tourism. Second, Japan should establish specific targets for business and industry to redesign, remanufacture, substitute and/or phase out plastic products.'

From the above-mentioned paragraph, one can decipher all the options except D because it is not a regulation rather it is an initiative. Therefore, option D is the apt answer.

76. Ans. D.

Option I: It can be deciphered from the following lines, 'Given its ongoing preparation for the 2020 Tokyo Olympic Games, industry sectors have been called on to reduce excessive packaging for all products related to the event. Biodegradable alternatives are being considered, drawing on lessons learned from the 2016 Olympic Games in Rio de Janeiro, where plastic waste was effectively limited.'

Option II: It can be deciphered from the passage.

Option III: It can be deciphered from the third paragraph.

Option IV: Neither it is mentioned, nor it can be deciphered from the passage.

Option V: The passage states 'Japan has the opportunity to stop looking for the next "easy solution" and instead adopt solid resource management principles to help stem the rising tide of plastic.' This means Japan has an opportunity to adopt solid resource management principles. But this does not mean it has adopted.

Therefore, option D is the apt answer.

77. Ans. E.

Option I and III: It can be inferred from the following line, 'The Chinese government imposed limits on plastic waste imports — which were largely recycled into new

products – because of growing awareness that some plastic waste contains toxic elements, therefore worsening China's already serious pollution problems.'

Option II: It can be inferred from the passage.

Option IV: It can be inferred from the first and second paragraph.

Option V: It is stated in the third paragraph, thereby not inferred.

78. Ans. D.

The given sentence talks about The Réunion hotspot where volcanic eruptions have been said to be related to the extinction of the dinosaurs. However, more recently, the eruptions has resulted in the coming up of the islands of Mauritius and Réunion. The error in option D is that the plural subject 'eruptions' does not agree with the singular verb 'relates'. A plural subject of a sentence requires a plural verb. Therefore, the error lies in option D.

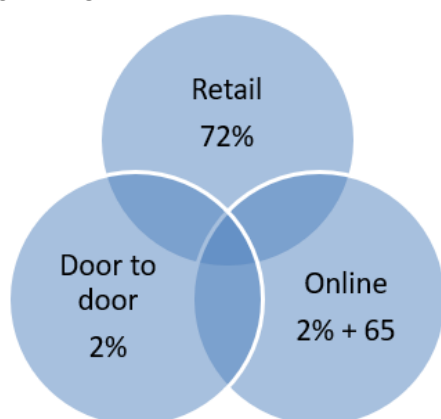
79. Ans. A.

When stating locations, we use the preposition 'at'. Also, 'too' is used in the sense of 'in addition to', and is generally placed at the end of the clause or sentence.

80. Ans. D.

The possessive form of 'them' is 'themselves'. 'There' is used to point things. 'Their' is used to show relations. 'For' shows purpose. The correct preposition to be used is 'on'. 'That' joins sentences, and generally starts a descriptive clause which is absent her.

81. Ans. B.



Given,

72% people were in retail stores.

People working in door to door store only was 1/36 of the retail store

$$= \frac{1}{36} \times 72 = 2\%$$

Person working in both the online and door to door store except retail store were 55.

Person working in only online store is equal to person in door to door only + 65 = 2% + 65

Total percentage of people working in all the three stores = 100%

Therefore,

$$72\% + 2\% + 65 + 55 + 2\% = 100\%$$

So,

$$76\% + 120 = 100\%$$

$$120 = 100\% - 76\%$$

$$120 = 24\%$$

$$\text{So, } 24\% = 120$$

Therefore,

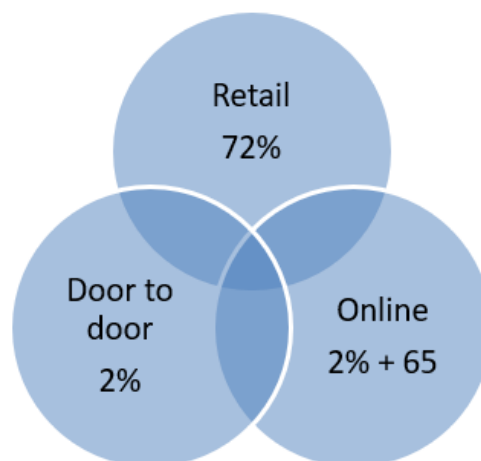
$$100\% = \frac{120}{24} \times 100 = 500$$

The total number of people working in online store only = 2% + 65

$$= \frac{2}{100} \times 500 + 65 = 10 + 65 = 75$$

So option (b) is the correct answer.

82. Ans. A.



Given,

72% people were in retail stores.

People working in door to door store only was $\frac{1}{36}$ of the retail store

$$= \frac{1}{36} \times 72 = 2\%$$

Person working in both the online and door to door store except retail store were 55.

Person working in only online store is equal to person in door to door only + 65 = 2% + 65

Total percentage of people working in all the three stores = 100%

Therefore,

$$72\% + 2\% + 65 + 55 + 2\% = 100\%$$

So,

$$76\% + 120 = 100\%$$

$$120 = 100\% - 76\%$$

$$120 = 24\%$$

So, 24% = 120

Therefore,

$$100\% = \frac{120}{24} \times 100 = 500$$

The total number of people working in any of the stores = Total number of people working in retail store + total number of people working in door to door only + total number of people working in both the online and door to door store except retail store + total number of people working only in online store.

So, that is equal to 100% = 500

So option (a) is the correct answer.

83. Ans. A.

B executes 200 calls on Friday

He executed 80% calls

So, 80% = 200

$$\text{Therefore, } 100\% = \frac{200}{80} \times 100 = 250$$

B received 25% more calls than A on Friday

Let the number of calls A received = x

$$\text{So, } 250 = x \times \frac{125}{100}$$

Therefore, x = 200

A executed 80% calls on Friday

So, number of calls executed

$$= 200 \times \frac{80}{100} = 160$$

So option (a) is the correct answer.

84. Ans. A.

Let the number of calls received by A on Friday = a

And, the number of calls received by B on Friday = b

Percentage of calls executed by A on Friday

$$= 80\% = \frac{80}{100}a$$

Percentage of calls executed by B on Friday

$$= 80\% \frac{80}{100}b$$

Statement A:

Total calls executed by them on Friday is 100

$$\text{So, } \frac{80}{100}a + \frac{80}{100}b = 100$$

$$a + b = \frac{100 \times 100}{80} = 125$$

$$a + b = 125$$

Thus, the total number of calls received by A and B on Friday is 125

Thus, statement A alone is sufficient to answer the question

Statement B:

Difference between the calls executed by them on Friday is 8

$$\text{So, } \frac{80}{100}a - \frac{80}{100}b = 8$$

$$a - b = \frac{100 \times 8}{80} = 10$$

$$a - b = 10$$

Thus, the total number of calls taken by them individually, we cannot determine the total number of calls received by A and B on Friday.

So option (a) is the correct answer.

85. Ans. E.

Statement I:

Total Surface Area of cuboid

$$= 2(lb + bh + hl)$$

Let length = 3x, breadth = 2x, height = x

$$\therefore 352 = 2(3x \times 2x + 2x \times x + x \times 3x)$$

$$\Rightarrow 176 = (6x^2 + 2x^2 + 3x^2)$$

$$\Rightarrow 176 = 11x^2$$

$$\Rightarrow x^2 = 16$$

$$\Rightarrow x = 4$$

\therefore Length = 12 cm, Breadth = 8 cm, Height = 4 cm

Volume = lbh

$$\Rightarrow 12 \times 8 \times 4 = 384 \text{ cm}^3$$

Statement II:

Total Surface Area of cube = $6s^2$

$$\therefore 726 = 6s^2$$

$$\Rightarrow s^2 = 121$$

$$\Rightarrow s = 11 \text{ cm}$$

Volume of the cube = s^3

$$\Rightarrow 11^3 = 1331 \text{ cm}^3$$

Statement III:

Let height of the cuboid = x cm, length = 3x, breadth = 2x

Difference = $3x - x$

$$\Rightarrow 8 = 2x$$

$$\Rightarrow x = 4$$

\therefore length = 12 cm, breadth = 8 cm, height = 4 cm

Volume of the cuboid = lbh

$$\Rightarrow 12 \times 8 \times 4 = 384 \text{ cm}^3$$

\therefore Either statement I and II or statement II and III are required to answer the question.

86. Ans. E.

Let speed of boat = u, and speed of stream = v

From Statement I:

$$u + v = 25/5 = 5 \text{ km/hr}$$

From Statement II:

$$v = 2u/3$$

From Statement III:

$$u - v = 25/10 = 2.5$$

Here by solving any two equations we can get the value of 'u'

Hence Any two statements will be necessary to answer the question

87. Ans. B.

Statement I:

Let CP = Y

$$\text{MP} = 1.6Y$$

$$\text{SP} = 1.2Y$$

Profit = 20%

$$1.6Y - 1.2Y = 1920; Y = 4800$$

Thus, required SP for 15% profit = $4800 \times$

$$1.15 = 5520$$

Hence, statement I alone is sufficient

Statement II:

$$\text{CP} = Y$$

$$\text{MP} = 1.75Y$$

Equivalent discount = 36%

$$\text{SP} = 1.12Y$$

SP of dealer = CP of Rahul

$$\text{SP of Rahul} = 1.12Y \times 125/100 = 6720$$

$$Y = 4800$$

Therefore, required SP = 5520

Hence, statement II alone is sufficient

Statement III:

$$\text{CP} = Y$$

$$\text{MP} = 1.75Y$$

$$\text{SP} = 1.3125Y$$

Equivalent discount = 40%

$$\text{SP} = 1.05Y$$

Then,

$$1.3125Y - 1.05Y = 1260$$

$$Y = 4800$$

Thus, required SP for 15% profit = $4800 \times 1.15 = 5520$

Hence, statement III alone is sufficient

Thus, the data given in either statement I alone or III alone is sufficient to answer the question.

So option (b) is the correct answer.

88. Ans. B.

Let the tens and units digits be a and b respectively.

$$1) a - b = 4$$

$$2) a - b = 4$$

$$3) (10a+b) - (10b+a) = 36; a - b = 4$$

Thus even all the given 3 statements together do not give the answer.

89. Ans. D.

Statement II:

Number of days taken by 1 man to build the wall working alone = $10 \times 2 = 20$ days

Number of days taken by 1 woman to build the wall working alone = $8 \times 3 = 24$ days

Length of wall build in 1 day by a man is 6 meters

Length of wall build in 1 day by a woman is 5 meters

Total number of days taken to build the wall when all the 5 workers work together

$$= \frac{1}{\left[\left(\frac{2}{20}\right) + \left(\frac{3}{24}\right)\right]} = \frac{40}{9} \text{ days}$$

Total lengths of wall build in $40/9$ day when all the 5 workers work together

$$= \frac{40}{9} * [2 * 6 + 3 * 5] = 120 \text{ meters}$$

Hence, statement II alone is sufficient

From I and III

Total number of days taken to build the wall when all the 5 workers work together

$$= \frac{1}{\left(\frac{2}{20}\right) + \left(\frac{3}{24}\right)} = \frac{40}{9} \text{ days}$$

Total lengths of wall build in 1 day when all the 5 workers work together is 27 meters.

Total lengths of wall build in 40/9 day when all the 5 workers work together

$$= \frac{40}{9} * [2 * 6 + 3 * 5] = 120 \text{ meters}$$

Hence, statement I and III together are sufficient.

So option (d) is the correct answer.

90. Ans. A.

Days	Girls	Boys	Total students = Girls + Boys	Number of students who lost	Number of students who won
Monday	1200	800	2000	0.24 x 2000 = 480	2000 - 480 = 1520
Tuesday	800	1000	1800	0.15 x 1800 = 270	1800 - 270 = 1530
Wednesday	600	1200	1800	0.20 x 1800 = 360	1800 - 360 = 1440
Thursday	1000	600	1600	0.12 x 1600 = 192	1600 - 192 = 1408
Friday	500	1000	1500	0.18 x 1500 = 270	1500 - 270 = 1230

Therefore, the ratio of the number of students who lost the competition on Tuesday to the number of students who won

$$\text{the competition on Wednesday} = \frac{270}{1440} = \frac{3}{16}$$

So option (a) is the correct answer.

91. Ans. C.

Days	Girls	Boys	Total students = Girls + Boys	Number of students who lost	Number of students who won
Monday	1200	800	2000	0.24 x 2000 = 480	2000 - 480 = 1520
Tuesday	800	1000	1800	0.15 x 1800 = 270	1800 - 270 = 1530
Wednesday	600	1200	1800	0.20 x 1800 = 360	1800 - 360 = 1440
Thursday	1000	600	1600	0.12 x 1600 = 192	1600 - 192 = 1408
Friday	500	1000	1500	0.18 x 1500 = 270	1500 - 270 = 1230

Given, the ratio of number of girls lost to the number of boys lost on Thursday is 7: 5 respectively

The number of girls lost on Thursday

$$= \frac{7}{12} \times 192 = 112$$

The number of boys participated on Monday = 800

Therefore, required percentage = 112/800 *

$$100 = 14$$

So option (c) is the correct answer.

92. Ans. E.

Days	Girls	Boys	Total students = Girls + Boys	Number of students who lost	Number of students who won
Monday	1200	800	2000	0.24 x 2000 = 480	2000 - 480 = 1520
Tuesday	800	1000	1800	0.15 x 1800 = 270	1800 - 270 = 1530
Wednesday	600	1200	1800	0.20 x 1800 = 360	1800 - 360 = 1440
Thursday	1000	600	1600	0.12 x 1600 = 192	1600 - 192 = 1408
Friday	500	1000	1500	0.18 x 1500 = 270	1500 - 270 = 1230

The number of students who won on Wednesday = 1440

The number of students who won on Thursday = 1408

$$\text{Therefore, required ratio} = \frac{1440}{1408} = \frac{45}{44}$$

So option (e) is the correct answer.

93. Ans. A.

Quantity I:

Let, the cost price of the article = Rs. x

Then, the marked price of the article = Rs.

$$(x+600)$$

$$\text{So, } 84\% \text{ of } (x+600) = 147\% \text{ of } x$$

$$\text{So, } \frac{84}{100} \times (x+600) = \frac{147}{100} \times x$$

$$= 84x + 50400 = 147x$$

$$= 63x = 50400$$

$$= x = 800$$

Therefore, required percentage

$$= \frac{600}{800} \times 100 = 75\%$$

Quantity II:

The selling price of the article = 113.75% of 800 = Rs. 910

$$\text{Profit} = 910 - 800 = \text{Rs. } 110$$

$$\text{Discount} = 1580 + 110 = \text{Rs. } 1690$$

$$\text{Marked price} = 1690 + 910 = 2600$$

$$\text{Discount\%} = \frac{1690}{2600} \times 100 = 65\%$$

Therefore, Quantity I > Quantity II

So option (a) is the correct answer.

94. Ans. E.

Let base radius and height of conical pit is

21x and 40x respectively

Volume of 22 cuboidal bricks + volume of 22

cylindrical bricks = volume of mud from

conical pit

$$\Rightarrow 22 \times \left[(14 \times 4 \times 4) + \frac{22 \times 7 \times 7 \times 4}{7} \right] = \frac{1}{3} \times \frac{22}{7} \times (21x)^2 \times 40x$$

$$\Rightarrow 840 = 21 \times 40 \times x^3$$

$$\Rightarrow x^3 = 1; x = 1$$

Quantity I:

$$\text{Half of height of conical pit} = \frac{40x}{2} = 20 \text{ cm}$$

Quantity II:

Two less than the total number of cuboidal bricks made = $22 - 2 = 20$

So, Quantity I = Quantity II

So option (e) is the correct answer.

95. Ans. A.

Quantity I: Total number of balls

$$= 10 + 7 + 13 = 30$$

Let S be the sample space. Then,

$n(S)$ = number of ways of drawing 5 balls

$$\text{out of } 30 = {}^{30}C_5$$

Let E_1 = event of drawing 2 red balls.

$$n(E_1) = {}^{13}C_2$$

Let E_2 = event of drawing 3 balls out of white and blue balls.

$$n(E_2) = {}^{10}C_3 +$$

$${}^{10}C_2 \times {}^7C_1 + {}^{10}C_1 \times {}^7C_2 + {}^7C_3 \text{ or } 17C_2$$

$$\text{Therefore, Probability} = \frac{n(E_1) \times n(E_2)}{n(S)}$$

$$= \frac{{}^{13}C_2 ({}^{10}C_3 + {}^{10}C_2 \times {}^7C_1 + {}^{10}C_1 \times {}^7C_2 + {}^7C_3)}{{}^{30}C_5}$$

$$= \frac{\frac{13!}{11!2!} \left(\frac{10!}{7!3!} + \frac{10!}{8!2!} \times \frac{7!}{6!1!} + \frac{10!}{9!1!} \times \frac{7!}{5!2!} + \frac{7!}{4!3!} \right)}{\frac{30!}{25!5!}} = 0.372$$

Quantity II: Total number of marbles

$$= 8 + 6 + 7 = 21$$

Let S be the sample space. Then,

$n(S)$ = number of ways of drawing 7 marbles

$$\text{out of } 21 = {}^{21}C_7$$

Let E_1 = event of drawing 7 marbles in which 4 marbles are brown.

$$n(E_1) = {}^8C_4 ({}^6C_3 + {}^6C_2 \times {}^7C_1 + {}^6C_1 \times {}^7C_2 + {}^7C_3)$$

Let E_2 = event of drawing 7 marbles in which 5 marbles are brown.

$$n(E_2) = {}^5C_5 ({}^6C_2 + {}^6C_1 \times {}^7C_1 + {}^7C_2)$$

Let E_3 = event of drawing 7 marbles in which 5 marbles are brown.

$$n(E_3) = {}^8C_6 ({}^6C_1 + {}^7C_1)$$

Let E_4 = event of drawing 7 marbles in which 5 marbles are brown.

$$n(E_4) = {}^8C_7$$

Therefore, Probability

$$= \frac{n(E_1) + n(E_2) + n(E_3) + n(E_4)}{n(S)}$$

$$= \frac{{}^8C_4 ({}^6C_3 + {}^6C_2 \times {}^7C_1 + {}^6C_1 \times {}^7C_2 + {}^7C_3) + {}^5C_5 ({}^6C_2 + {}^6C_1 \times {}^7C_1 + {}^7C_2) + {}^8C_6 ({}^6C_1 + {}^7C_1) + {}^8C_7}{{}^{21}C_7}$$

$$= \frac{\frac{8!}{4!4!} \left(\frac{6!}{3!3!} + \frac{6!}{4!2!} \times \frac{7!}{6!1!} + \frac{6!}{5!1!} \times \frac{7!}{5!2!} + \frac{7!}{4!3!} \right) + \frac{5!}{5!1!} \left(\frac{6!}{4!2!} + \frac{6!}{5!1!} \times \frac{7!}{5!2!} \right) + \frac{8!}{6!2!} \left(\frac{6!}{5!1!} + \frac{7!}{6!1!} \right) + \frac{8!}{7!1!}}{\frac{21!}{14!7!}} = 0.213$$

Quantity I > Quantity II

Hence, option (a) is the answer.

96. Ans. B.

Quantity I:

Quantity of wine in the final mixture

$$= \frac{5}{5+4} \times 63 + \frac{4}{4+3} \times 49 + 12$$

$$= \frac{5}{9} \times 63 + \frac{4}{7} \times 49 + 12 = 35 + 28 + 12 = 75$$

litres

Quantity of water in the final mixture

$$= \frac{4}{5+4} \times 63 + \frac{3}{4+3} \times 49 + 1$$

$$= \frac{4}{9} \times 63 + \frac{3}{7} \times 49 + 1 = 28 + 21 + 1 = 50$$

litres

Total = $75 + 50 = 125$ litres

Wine: water = $75: 50 = 3: 2$

Quantity of mixture in first container

$$= \frac{2}{2+2+1} \times 125 = 50 \text{ litres}$$

Quantity of water in first container

$$= \frac{2}{3+2} \times 50 = 20 \text{ litres}$$

Quantity of mixture in third container

$$= \frac{1}{2+2+1} \times 125 = 25 \text{ litres}$$

Quantity of water in third container

$$= \frac{2}{3+2} \times 25 = 10 \text{ litres}$$

Required difference = $20 - 10 = 10$ litres

Quantity II:

Let the quantity of milk and water in the initial mixture be $13k$ litres and $7k$ litres respectively

According to the question

$$\begin{aligned}
 &= \frac{13k+5}{7k+15} = \frac{7}{5} \\
 &= 5 \times (13k+5) = 7 \times (7k+15) \\
 &= 65k + 25 = 49k + 105 \\
 &= 65k - 49k = 105 - 25 \\
 &= 16k = 80; k = 5
 \end{aligned}$$

Quantity of milk in the initial mixture = $13k$
 $= 13 \times 5 = 65$ litres

Quantity of water in the initial mixture = $7k$
 $= 7 \times 5 = 35$ litres

Quantity of milk in the new mixture = $65 + 5$
 $= 70$ litres

Quantity of water in the new mixture = $35 + 15 = 50$ litres

Total = $70 + 50 = 120$ litres

Milk: water = $70: 50 = 7: 5$

Remaining mixture = $\frac{50}{100} \times 120 = 60$ litres

Quantity of milk in the final mixture

$$= \frac{7}{7+5} \times 60 + 10 = 45 \text{ litres}$$

Quantity of water in the final mixture

$$= \frac{5}{7+5} \times 60 + 8 = 33 \text{ litres}$$

Required difference = $45 - 33 = 12$ litres

Therefore, Quantity I < Quantity II

So option (b) is the correct answer.

97. Ans. A.

Quantity I:

Total number of workers = 42

$$\text{Number of male workers} = \frac{13}{21} \times 42 = 26$$

Number of female workers = $42 - 26 = 16$

$$\text{So, } 65 \times 42 = 26 \times 72 + 16 \times x$$

$$\text{So, } 2730 = 1872 + 16x$$

$$\text{So, } 16x = 858$$

$$\text{So, } x = 53.625$$

So, the value of $x = 53.625$ kg

Quantity II:

$$25x = 24 \times (x - 2) + 100$$

$$25x = 24x - 48 + 100$$

$$x = 52$$

So, the value of 'x' is 52 kg

Therefore, Quantity I > Quantity II

So option (a) is the correct answer.

98. Ans. C.

Number of laptops sold at some profit in 2012 = $9600 + 320 + 64 = 9984$

Number of laptops sold at loss in 2012 = $1920 + 480 + 16 = 2416$

Ratio = $9984: 2416 = 4.13$

Number of laptops sold at some profit in 2013 = $10920 + 1560 + 320 = 12800$

Number of laptops sold at loss in 2013 = $2240 + 840 + 120 = 3200$

Ratio = $12800: 3200 = 4$

Number of laptops sold at some profit in 2014 = $12750 + 3750 + 900 = 17400$

Number of laptops sold at loss in 2014 = $3060 + 1190 + 350 = 4600$

Ratio = $17400: 4600 = 3.78$

Number of laptops sold at some profit in 2015 = 22560

Number of laptops sold at loss in 2015 = 5440

Ratio = $22560: 5440 = 4.15$

Number of laptops sold at some profit in 2016 = 27500

Number of laptops sold at loss in 2016 = 5500

Ratio = $27500: 5500 = 5$

Therefore, the ratio of number of laptops sold at some profit to the ratio of number of laptops sold at loss by the two companies together, was minimum in 2014

So option (c) is the correct answer.

99. Ans. D.

The revenue of GM in 2012 = $11250 * (9600*1.2+1920*0.8+480*0.5) = \text{Rs. } 149580000$

The revenue of GM in 2013 = $11900 * (10920*1.2+2240*0.8+840*0.5) = \text{Rs. } 182260400$

The revenue of GM in 2014 = $12700 * (12750*1.2+3060*0.8+1190*0.5) = \text{Rs. } 232956100$

The revenue of GM in 2015 = $13700 * (11520*1.2+3200*0.8+1280*0.5) = \text{Rs. } 233228800$

The revenue of GM in 2016 = $14900 * (9100*1.2+2860*0.8+1040*0.5) = \text{Rs. } 204547200$

Therefore, the revenue of GM was maximum

in 2015

So option (d) is the correct answer.

100. Ans. C.

The total amount spent by GM on shipping and warehousing laptops in 2015 = $16000 \times (690 + 690) = 22080000$

The total amount spent by GE on shipping laptops in 2015 = $12000 \times 800 = \text{Rs. } 96000000$

Therefore, the required percentage

$$= \frac{22080000}{96000000} \times 100 = 230\%$$

So option (c) is the correct answer.

101. Ans. E.

The total amount spent by GE on shipping during 2012 - 2015 =

$$500 \times 400 + 550 \times 2000 + 650 \times 5000 + 800 \times 12000 = 200000 + 1100000 + 3250000 + 9600000 = \text{Rs. } 14150000$$

The total amount spent by GM on advertising during 2012 - 2016 =

$$50 \times 12000 + 50 \times 14000 + 60 \times 17000 + 75 \times 16000 + 80 \times 13000 = 600000 + 700000 + 1020000 + 1200000 + 1040000 = \text{Rs. } 4560000$$

Therefore, required percentage

$$= \frac{4560000}{14150000} \times 100 = 32.2\%$$

So option (e) is the correct answer.

102. Ans. B.

In the year 2015,

The salary expense of a company = 16 lakhs

The total number of employees = 80

Average salary of employees = $1600000/80 = \text{Rs. } 20000$

In the year 2016,

The average salary of employees = Rs. 1000

+ Average salary of employees in 2015

$$= 4000 + 20000 = \text{Rs. } 24000$$

The salary expense in 2016 = $(120/100) \times 16 = 19.2$ lakhs

The other expense in the year 2016 = 34 lakhs

Total expense in the year 2016 = $19.2 + 34 = 53.2$ lakhs

The number of employees in 2015

$$= 1920000/24000 = 80$$

The total expense in the year 2015 and 2016

is same. So, The total expense

in the year 2015 = 53.2 lakhs

The other expense in the year 2015 = $53.2 - 16 = 37.2$ lakhs

The average salary of employees in

the year 2017 = Rs. 15000

The other expense in the year 2017 =

Rs. 47.75 lakhs

The number of employees in 2017 = $80 - 5 = 75$

The salary expense in 2017 = 75×15000

= 11.25 lakhs

The total expense in the year 2017 = 47.75

+ 11.25 = 59 lakhs

Year	Average salary of employees (In Rs.)	Number of employees	Salary expense (In lakhs)	Other expense (In lakhs)	Total expense (In lakhs)
2015	20000	80	16	37.2	53.2
2016	24000	80	19.2	34	53.2
2017	15000	75	11.25	47.75	59

The total expense in the year 2015 = 53.2 lakhs

The total expense in the year 2017 = 59 lakhs

Required % = $(53.2/59) \times 100 = 90\%$

103. Ans. A.

The total average salary of employees in all the given years together

$$= 20000 + 24000 + 15000 = \text{Rs. } 59000$$

Year	Average salary of employees (In Rs.)	Number of employees	Salary expense (In lakhs)	Other expense (In lakhs)	Total expense (In lakhs)
2015	20000	80	16	37.2	53.2
2016	24000	80	19.2	34	53.2
2017	15000	75	11.25	47.75	59

104. Ans. A.

The number of employees in the year 2015 = 80

The number of employees in the year 2017 = 75

Required difference = $80 - 75 = 5$

Year	Average salary of employees (In Rs.)	Number of employees	Salary expense (In lakhs)	Other expense (In lakhs)	Total expense (In lakhs)
2015	20000	80	16	37.2	53.2
2016	24000	80	19.2	34	53.2
2017	15000	75	11.25	47.75	59

105. Ans. A.

The average salary expense in all the given years together
 $= (37.2 + 34 + 47.75)/3$
 $= 118.95/3 = 39.65$ lakhs

Year	Average salary of employees (In Rs.)	Number of employees	Salary expense (In lakhs)	Other expense (In lakhs)	Total expense (In lakhs)
2015	20000	80	16	37.2	53.2
2016	24000	80	19.2	34	53.2
2017	15000	75	11.25	47.75	59

106. Ans. B.

Total hours required to build 100 small cars by male workers of factory B –
 $\Rightarrow 100 * 5 * 125\% = 625$ hours {multiplied by 125% since male workers of factory B are 80% as efficient as male workers of factory A; it is equivalent to dividing by 80%}

Total man hours available in a day in factory B –

$$10 * 9 = 90 \text{ hours}$$

Total hours required to build 120 medium cars by male workers of factory B –
 $\Rightarrow 120 * 7 * 125\% = 1050$ hours {multiplied by 125% since male workers of factory B are 80% as efficient as male workers of factory A; it is equivalent to dividing by 80%}

Total man hours available in a day in factory B –

$$10 * 9 = 90 \text{ hours}$$

Time it will take to finish the small and medium cars batch by male workers –
 $(625 + 1050)/90 = 18.61$ days

Total hours required to build 80 big cars by female workers of factory B –

$\Rightarrow 80 * 8 * 91\% = 582.4$ hours {multiplied by 91% since female workers of factory B are 110% as efficient as female workers of factory A}

Total man hours available in a day in factory B –

$$13 * 9 = 117 \text{ hours}$$

Time taken to finish the order of big cars –
 $582.4/117 = 4.98$ days

Total time taken to finish the order –
 $18.61 + 4.98 = 23.59 \approx 24$ days

107. Ans. D.

Total time available for female workers of factory B after finishing initial order –

$18.61 \text{ days} - 4.98 \text{ days} = 13.63 \text{ days}$ {18.61 and 4.98 days taken from previous questions, as the female and male workers work on alternate days}

Total man hours available to them –

$$13 \text{ women} * 9 \text{ hours/day} * 13.63 \text{ days} = 117 * 13.63 = 1594.71 \text{ hours}$$

Total time taken by them to make 3 medium cars and 2 big cars –

$$\Rightarrow (3 * 7/1.1) + (2 * 8/1.1) = 19.1 \text{ hours} + 14.54 \text{ hours} = 33.63 \text{ hours}$$

Total cars made –

$$5 * [(1594.71/33.63)] = 235 \text{ cars} \text{ {here [] is the Greatest Integer Function}}$$

Since cars have to be made in the ratio 3:2 for medium and big cars respectively.

108. Ans. A.

Total small RC cars made by male workers – 100 (from the 1st order)

$$\text{Wages} = 100 * 500 = 50,000$$

Total medium RC cars made by male workers – 120 (from the 1st order)

$$\text{Wages} = 120 * 750 = 90,000$$

Total big RC cars made by male workers – 0

Total small RC cars made by female workers – 0

Total medium RC cars made by female workers –

$$(3/5) * 235 = 141 \text{ cars}$$

$$\text{Wages} = 141 * 750 = 105750$$

Total big RC cars made by female workers –

$$80 + (235 * 2/5) = 80 + 94 = 174$$

$$\text{Wages} = 174 * 1000 = 174000$$

Wage per individual man –

$$(90000 + 50000)/10 = 14000$$

Wage per individual woman –

$$(105750 + 174000)/13 = (279750)/13 = 21519.23$$

Difference –

$$\text{Rs. } 21519.23 \approx \text{Rs. } 7520$$

109. Ans. D.

The investment made by A, B and C in the year 2017 are 10000, 20000 and 30000 respectively.

$$\text{Investment of A for the year 2018} = 10000 * 1.5 = \text{Rs. } 15000$$

$$\text{Investment of B for the year 2018} = 20000 * 1.2 = \text{Rs. } 24000$$

$$\text{Investment of C for the year 2018} = 30000 * 1.1 = \text{Rs. } 33000$$

1.1 = Rs. 33000

As, all the three partners invested for the whole year,

Ratio of investments = $(15000 \times 12) : (24000 \times 12) : (33000 \times 12) = 15 : 24 : 33$

We know that, A receives Rs. 88500 at the end of the year

Let total profit be Rs. P

So, share of A = 12.5% of P

$$+ \frac{15}{15+24+33} \times (P - 12.5\% \text{ of } P) = 88500$$

$$\text{So, } 0.125P + \frac{15}{72} \times 0.875P = 88500$$

$$= 0.125P + \frac{13.125P}{72} = 88500$$

$$= \frac{22.125P}{72} = 88500$$

$$\text{So, } P = \frac{88500 \times 72}{22.125} = 288000$$

Therefore, total profit at the end of the year 2018 is Rs. 288000.

So option (d) is the correct answer.

110. Ans. A.

The total investment made in the year 2016 is Rs. 65000 and the ratio of amount invested by A, B and C is 5: 6: 2, respectively

So,

Investment of A for the year 2016

$$= \frac{5}{13} \times 65000 = \text{Rs. } 25000$$

Investment of B for the year 2016

$$= \frac{6}{13} \times 65000 = \text{Rs. } 30000$$

Investment of C for the year 2016

$$= \frac{2}{13} \times 65000 = \text{Rs. } 10000$$

After 4 months A withdraws half of his capital and B withdraws half of his capital after 6 months and C joins after 6 months.

Total investments by A = $25000 \times 4 + 12500 \times 8 = \text{Rs. } 200000$

Total investments by B = $30000 \times 6 + 15000 \times 6 = \text{Rs. } 270000$

Total investments by C = $10000 \times 6 = \text{Rs. } 60000$

Ratio of investments for profit sharing = $200000 : 270000 : 60000 = 20 : 27 : 6$

Also given,

The profit earned by C in the year 2016 is 21000 Rs.

So, according to the question,

$$\frac{6}{53} \times \text{total profit} = 21000$$

$$\text{So, total profits} = \frac{21000 \times 53}{6} = 185500$$

Therefore, A's profit

$$= \frac{20}{53} \times 185500 = \text{Rs. } 70000$$

$$\text{B's profit} = \frac{27}{53} \times 185500 = \text{Rs. } 94500$$

Therefore, difference of share of A and B =

$$\text{Rs. } (94500 - 70000) = \text{Rs. } 24500$$

So option (a) is the correct answer.

111. Ans. D.

Sudha Balakrishnan has been appointed the first-ever Chief Financial Officer (CFO) of the Reserve Bank of India (RBI) for a period of three years.

She will be responsible for the central bank's budgetary process and its financial activities and performance.

112. Ans. D.

In the Union Budget 2018-19, on the lines of "Operation Flood" a new Scheme "Operation Greens" was announced with an outlay of **Rs 500 Crore**.

Note:

- The main objective of the scheme is to **address the challenge of price volatility** of perishable commodities like tomato, onion, and potato with the **satisfaction of both the farmers & consumers**.

113. Ans. A.

* Finance minister Piyush Goyal said that government has accepted a report submitted by a committee of bankers led by Punjab National Bank chairman Sunil Mehta.

* The committee has recommended a five-pronged strategy -- Project 'Sashakt'.

* 'SASHAKT' stands for strengthening and the whole objective was to strengthen the credit capacity, credit culture and portfolio of public sector banks.

114. Ans. B.

The Union Finance Minister Arun Jaitley has recently launched SBI's unified integrated app 'YONO' (You Only Need One). 'YONO' is the first digital banking platform which offers customized products to customers. SBI has tied up with 60 e-commerce players to provide more facility other than banking services.

115. Ans. B.

Former Chief of the Naval Staff Admiral Jayant Ganpat Nadkarni passed away in Mumbai, Maharashtra.

He was the 14th chief of the Indian Navy from December 1987 to November 1990.

116. Ans. A.

ICICI Bank has launched a cross-border remittance facility that can be used by **NRIs** for sending money to their friends and family in India through social media like WhatsApp and e-mail.

Christened '**Social Pay**', a sender needs to register on the remittance service application **Money 2 India** to transfer money to someone in India.

117. Ans. E.

The union government has set up a 13-member committee headed by Ravindra H Dholakia (retired professor of IIM Ahmedabad) to upgrade the norms for computation of economic data at states and districts level in the backdrop of plans to revise the base year for National Accounts or GDP calculation.

118. Ans. C.

The famous annual Meghalaya Annual Cultural Festival, "Behdienkhlam-2018" at the small peripheral town of Jowai, Meghalaya. "Khlam" means plague (or pestilence) and 'beh dien' means to drive away with sticks.

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. B.

The tri-service joint military exercise Indra Exercise 2018 was conducted between India and Russia.

121. Ans. B.

NITI Aayog will conduct Global Mobility Summit 2018 on electrical vehicle job growth in September 2018 in New Delhi.

122. Ans. B.

Singapore-government owned investment firm, Temasek, has picked 5 percent stake in AU Small Finance Bank for Rs 1000 crore.

123. Ans. C.

Small Finance Banks (SFBs) will be required to extend 75% of their adjusted net bank credit (ANBC) for Priority Sector Lending.

124. Ans. D.

NSFR stands for - Net Stable Funding Ratio

* It is defined as the amount of available stable funding (ASF) relative to the amount of required stable funding (RSF).

* It promotes resilience over a longer-term time horizon by requiring banks to fund their activities with more stable sources of funding on an ongoing basis.

* The above ratio should be equal to at least 100 percent on an ongoing basis.

125. Ans. C.

India asserted their supremacy in Kabaddi yet again as they annihilated Iran 44-26 in the Dubai Kabaddi Masters final at the Al Wasl Sports Club, Dubai.

126. Ans. C.

Andres Iniesta (Football Player) who recently retired from football belongs to Spain.

127. Ans. D.

The number of regional rural banks (RRBs) identified for listing on stock exchanges in line with the Union Budget 2018-19 is 4.

128. Ans. A.

USA has emerged as the export destination of India.

The US has emerged as the top export destination for India, with USD 47.9 billion worth of shipments last fiscal, followed by UAE and Hong Kong, as per the commerce ministry data.

"USA was India's top export market during April-March 2018 with exports reaching USD 47.9 billion, followed by UAE (USD 28.1 billion) and Hong Kong (USD 14.7 billion)," the department of commerce said.

The other key destinations include China, Singapore, UK, Germany, Bangladesh, Vietnam and Nepal.

129. Ans. D.

- Amangarh Tiger Reserve is located in Amangarh in **Bijnor district in the state of Uttar Pradesh.**
- It is a Tiger Reserve under Project Tiger.
- It is home to tigers, elephants and a wide variety of other wild animals.

130. Ans. D.

Asteroid Day is observed on 30th June, 2018.

131. Ans. C.

Numaligarh Refinery Plant is in Assam.

132. Ans. A.

Noted artist Anjolie Ela Menon had received the National Kalidas Samman in Delhi for visual arts from Madhya Pradesh.

133. Ans. C.

Swadhaar FinServe Pvt Ltd fully acquired by RBL Bank.

134. Ans. D.

HDI stands for Human Development Index.

Here, H stands for Human.

135. Ans. A.

Rupees 5000 crores approve for dedicated micro irrigation fund.

The government approved a dedicated Rs 5,000 crore fund to bring more land area under micro-irrigation as part of its objective to boost agriculture production and farmers income.

The fund has been set up under NABARD, which will provide this amount to States on concessional rate of interest to promote micro-irrigation, which currently has a coverage of only 10 million hectares as against the potential of 70 million hectares.

136. Ans. D.

The World Bank South Asia Economic Focus report for Spring 2018 titled 'Jobless Growth, India must grow at 18%

137. Ans. B.

Payments Bank cannot accept NRI deposits.

138. Ans. D.

The RBI is set to roll out a coin of Rs 350 denomination to mark the 350th Birth Anniversary of Guru Gobind Singh Ji.

139. Ans. C.

The new telecom policy aims to attract \$100 billion investments in the digital communications sector by 2022.

140. Ans. C.

RRBs has to maintain the minimum prescribed Capital to Risk Weighted Assets Ratio (CRAR) of 9%.

141. Ans. B.

Commerce Min approves 15 projects for infrastructure under TIES. TIES is Trade Infrastructure for Export Scheme. Here, TIES is related to export.

142. Ans. E.

The Motif of Rs. 50 bank notes is Hampi with Chariot.

143. Ans. B.

Paramparagat Krishi Vikas Yojana is related to Organic farming.

144. Ans. C.

According to the Socio-Economic Survey, 4% of Indian houses have mechanised tractors.

145. Ans. D.

Bank of China has received a license from the Reserve Bank of India (RBI) in July 2018 to launch operations in India.

The Reserve Bank of India has issued license to the Bank of China to start its business in India. The 106-year-old bank is now set to open a branch in Mumbai – its first in India. The BoC, which came into existence in 1912, is going to be the second bank of China to open branch in India. The Industrial and Commercial Bank of China already has a branch in Mumbai.

146. Ans. B.

Under Insolvency and Bankruptcy Code, 2016, 90 days of the deadline is given after completion of 180 days to a company.

147. Ans. C.

tal Pension Yojana (APY) was launched in May 2015 and current number of subscriber stands at 1.10 crore.

148. Ans. A.

Dynamic fuel pricing of petrol and diesel is done on Daily Basis.

149. Ans. A.

Bharat QR code is developed by National Payments Corporation of India (NPCI). BharatQR, developed by NPCI, Mastercard, and Visa, is an integrated payment system in

India. The system, which was launched in **September 2016**, facilitates users to transfer their money from one source to another. The money transferred through BharatQR is received directly in the user's linked bank account.

About QR Code –

The QR code or Quick Response code is a two-dimensional machine-readable code, which is made up of black and white squares and is

used for storing URLs or other information. These can easily be read by the camera of a smartphone.

150. Ans. E.

According to the World Investment Report, 2018 by the UN Conference on Trade and Development (UNCTAD), FDI into India decreased to USD 40 billion last year from USD 44 billion in 2016.