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Solution

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Reasoning Aptitude

1. Answer: (E)
The logic followed here is as follows,
The second letter is the reverse of the third letter as per English alphabetical order. Also, the fourth letter is the immediate succeeding letter of the first letter.
In option 'a': J+1 = K, (C) is opposite to (X)
In option 'b': V+1 = W, (N) is opposite to (M)
In option 'c': C+1 = D, (L) is opposite to (O)
In option 'd': R+1 = S, (G) is opposite to (T)
In option 'e': A+1 = B, (O) is opposite to (L)
So, 'AOKB' is the odd letter cluster.
2. Answer: (C)
Starting point: Start with R, N and P to form minimum number of cases initially.
Clues:
1) No person sits to the right of R.
2) N sits third to the left of R.
3) One person sits between N and P.
4) W sits opposite to P.
Inferences:
From clue 1, R sits at the extreme right end seat of row B.
From clue 2, clue 3 and clue 4, P sits second to the right of N or second to the left of N. Thus, W sits opposite to P.
Case 1: P sits second to the right of N.
Row A: W
Row B: N, P, R
Case 2: P sits second to the left of N.
Row A: W
Row B: P, N, R
Clues:
1) Three persons sit between Y and W.
2) U sits immediate right of V.
3) Q sits opposite to U.
Inferences:
From clue 1, W sits fourth to the left or right of Y.
Case 1:
From clue 2 and clue 3, V sits second to the right of W and thus U sits immediate right of V.
Row A: Y, U, V, W
Row B: Q, N, P, R
Case 2:
From clue 2 and clue 3, V sits second to the left of W and thus U sits immediate right of V.
Row A: W, U, V, Y
Row B: P, Q, N, R
Clues:
1) L sits opposite to T.
2) T does not sit adjacent to Y.
3) M sits to the right of O.
4) X does not at any of the extreme end seat.
Inferences:
Case 1:
From clue 1 and clue 2, T sits immediate right of W.
From clue 3, M sits immediate left of Q and thus O sits immediate left of M.
From clue 4, this case can be rejected as there is no seat available for X. Thus, this case can be rejected.
Case 2:
From clue 1 and clue 2, T sits immediate right of W.
From clue 3, M sits immediate left of R and thus O sits immediate left of M.
From clue 4, X sits opposite to O.

The only person remaining is Z, who sits opposite to R.

The final arrangement is as follows:

Table with 2 rows (Row A, Row B) and 8 columns (T, W, U, V, X, Y, Z, L, P, Q, N, O, M, R).

Four persons sit to the right of X.

3. Answer: (B)
Z sits opposite to R.
Z sits third to the left of V.
4. Answer: (A)
V sits opposite to N.
5. Answer: (D)
X sits third to the left of W.
O sits opposite to X.
6. Answer: (D)
Among the persons in the given options, only L sits at the extreme end seat.
7. Answer: (E)

Ten persons:- P, Q, R, S, T, U, V, W, X and Y are working in a construction company at different designations but not necessarily in the same order. The designations in decreasing orders are Project Manager, Senior Engineer, Architect, Junior Engineer, Iron worker, Tradesman, Blasting Labour, Power tools Labour, Hand tools Labour and Air tools Labour such that Project Manager is the seniormost position and Air tools Labour is the juniormost position.

Table with 2 columns: Designations, Person. Rows include Project Manager, Senior Engineer, Architect, Junior Engineer, Iron worker, Tradesman, Blasting Labour, Power tools Labour, Hand tools Labour, Air tools Labour.

Only three persons are junior to U.

Table with 2 columns: Designations, Person. Rows include Project Manager, Senior Engineer, Architect, Junior Engineer, Iron worker, Tradesman, Blasting Labour (U), Power tools Labour, Hand tools Labour, Air tools Labour.

Q is immediate junior to V but immediate senior to S.

Neither V nor X is the seniormost person.

Table with 5 columns: Designations, Case 1 Person, Case 2 Person, Case 3 Person, Case 4 Person. Rows include Project Manager, Senior Engineer (V), Architect (Q, V), Junior Engineer (S, Q, V).

Iron worker		S	Q	
Tradesman			S	
Blasting Labour	U	U	U	U
Power tools Labour				V
Hand tools Labour				Q
Air tools Labour				S

The number of persons senior to V is same as the number of persons junior to W.
Thus, Case 3 gets cancelled.

	Case 1	Case 2	Case 4
Designations	Person	Person	Person
Project Manager			
Senior Engineer	V		
Architect	Q	V	W
Junior Engineer	S	Q	
Iron worker		S	
Tradesman			
Blasting Labour	U	U	U
Power tools Labour		W	V
Hand tools Labour	W		Q
Airtools Labour			S

R is immediate junior to X.
Neither P nor R is the juniormost person.
Neither V nor X is the seniormost person.

	Case 1	Case 4	Case 4a
Designations	Person	Person	Person
Project Manager			
Senior Engineer	V		
Architect	Q	W	W
Junior Engineer	S		X
Iron worker	X	X	R
Tradesman	R	R	
Blasting Labour	U	U	U
Power tools Labour		V	V
Hand tools Labour	W	Q	Q
Air tools Labour		S	S

Not more than 3 persons are junior to P and T.
Neither P nor R is the juniormost person.
Thus, Case 4 and Case 4a get cancelled.

	Case 1
Designations	Person
Project Manager	
Senior Engineer	V
Architect	Q
Junior Engineer	S
Iron worker	X
Tradesman	R
Blasting Labour	U
Power tools Labour	P
Hand tools Labour	W
Air tools Labour	T

Now, only Y is remaining.

Designations	Person
Project Manager	Y
Senior Engineer	V
Architect	Q
Junior Engineer	S
Iron worker	X

Tradesman	R
Blasting Labour	U
Power tools Labour	P
Hand tools Labour	W
Air tools Labour	T

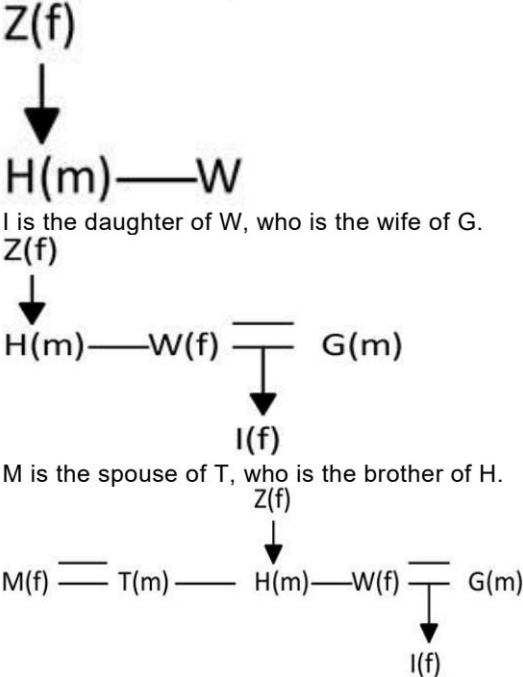
This is the final arrangement.
Y is the seniormost person.

8. **Answer: (A)**
Two persons are junior to P.
9. **Answer: (C)**
T - Air tools Labour
Q - Architect
10. **Answer: (B)**
S, whose designation is Junior Engineer, is immediate senior to X, whose designation is Iron worker.
11. **Answer: (E)**
741358
After substitution the number is 832467
after rearrangement - 234678
Third digit from left - 4
So, 4 will be the third digit from the left end after the rearrangement.
12. **Answer: (B)**
Given word: 'STACKING'.
The 2nd, 4th, 6th, 7th, and 8th letter of the word " are 'T', 'C', 'I', 'N' and 'G' respectively.
Only one four-letter meaningful word (TING) can be formed using the letters 'T', 'C', 'I', 'N' and 'G'.
13. **Answer: (B)**

M	E	R	C	U	R	Y
1 st	2 nd	3 rd	4 th	5 th	6 th	7 th
C	R	Y				
4 th	6 th	7 th				

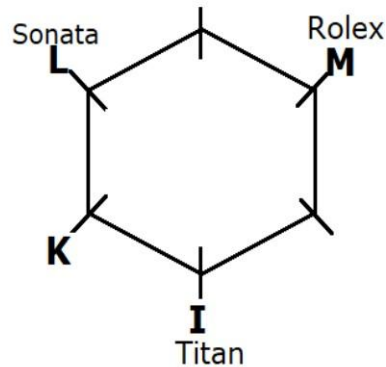
So, the word formed is CRY.
So, 'C' is the answer because it is the third letter from the right end of the word formed.

14. **Answer: (B)**
We consider males as (m) and females as (f).
Also,
As per the given information the diagram is,
Z is the mother of H, who is the brother of W.

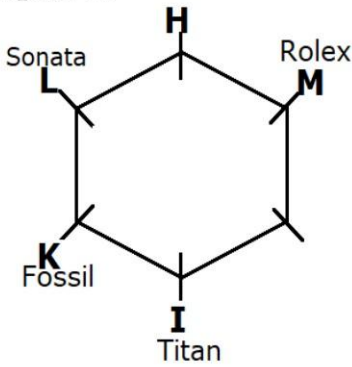


The one who likes Titan watch sits second to the left of M.
Thus, Case 2 gets cancelled.

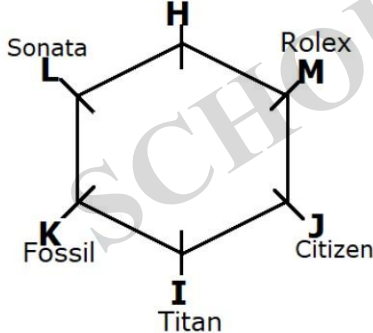
Case1-



H does not sits adjacent to I.
The one who likes Fossil watch sits second to the right of H.



J does not likes Maxima watch.



This is the final arrangement.
J likes Citizen watch.

22. Answer: (B)
Two persons sit between I and the one who likes Maxima watch when counted from the right of I.
23. Answer: (C)
M sits immediate right of J. This statement is true.
24. Answer: (A)
L sits opposite to J.
In the same way, K sits opposite to M.
25. Answer: (A)
M sits third to the left of K, who likes Fossil watch.
26. Answer: (B)
Nine persons live in a five-storeyed building such that the bottommost floor is number 1 above that number 2 and so on. Each of the floors consists of 2 flats such as flat-X and flat-Y. Flat X is to the

west of Flat Y. Flat-X of floor-2 is immediately above flat-X of floor-1 and immediately below flat-X of floor-3 and in the same way, flat-Y of floor-2 is immediately above flat-Y of floor-1 and immediately below flat-Y of floor-3 and so on. One of the flats is vacant.

Floor	Flat X	Flat Y
5		
4		
3		
2		
1		

Two floors are between H and K, who lives on the prime number floor above H.
G lives immediately to the east of H.

	Case 1		Case 2	
Floor	Flat X	Flat Y	Flat X	Flat Y
5	K			K
4				
3				
2	H	G	H	G
1				

Only one floor is between H and M, who lives immediately below E.
Neither E nor M lives in flat X.
Thus, Case 2 gets cancelled.

	Case 1	
Floor	Flat X	Flat Y
5	K	E
4		M
3		
2	H	G
1		

T lives immediately above Z.

	Case 1		Case 1a	
Floor	Flat X	Flat Y	Flat X	Flat Y
5	K	E	K	E
4	T	M	T	M
3	Z			Z
2	H	G	H	G
1				

O lives to the east of J but not on floor 3.
Flat Y is not vacant on any floor.
Thus, Case 1 gets cancelled.

Floor	Flat X	Flat Y
5	K	E
4	T	M
3	Vacant	Z
2	H	G
1	J	O

This is the final arrangement.
J lives in flat X of floor 1.

27. Answer: (C)
Five persons live below the flat of M.
28. Answer: (E)
K and E live on the same floor.
In the same way, T and M live on the same floor.
29. Answer: (A)
Option(a) statement is true.
J lives on the bottommost floor.
30. Answer: (D)
O lives immediately below G, who lives with H on floor 2.

Quantitative Aptitude

31. **Answer: (C)**
Let the radius of the circular field = 'r' metres
Then, area of the field = $\pi \times r^2 = (22/7) \times r^2 = 1386$
So, $r^2 = 1386 \times (7/22) = 441$
So, $r = \sqrt{441} = 21$ {Since, radius cannot be negative}
Circumference of the circular field = $2 \times (22/7) \times 21 = 132$ metres
So, surface area of one side of the compound wall = $2\pi r \times \text{height} = 132 \times 3 = 396 \text{ m}^2$
32. **Answer: (C)**
Average of 15 numbers = 270
Average of 5 numbers = 238
Average of 3 numbers = 230
Average of 4 numbers = 350
Sum of last three numbers = $15 \times 270 - 5 \times 238 - 3 \times 230 - 4 \times 350$
= $4050 - 1190 - 690 - 1400$
= 770
33. **Answer: (B)**
 $24K + 192 = 336$
 $\Rightarrow 24K = 144$
 $\Rightarrow K = 6$
And $K + M = 28$
 $\Rightarrow M = 22$
Hence, difference = $22 - 6 = 16$
34. **Answer: (A)**
Let total amount be ₹2000x.
P's cash = $\frac{1}{4} \times 2000x = 500x$
Remaining cash = $2000x - 500x = 1500x$
Q's amount = $\frac{8}{15} \times 1500x = 800x$
R's amount = $\frac{1}{5} \times 2000x = 400x$
S's amount = $300 = 2000x - 500x - 800x - 400x$
 $300 = 300x$
 $x = 1$
required difference = $500 - 400 = ₹100$
35. **Answer: (C)**
From I:
 $2x^2 - 21x + 54 = 0$
Or, $2x^2 - 12x - 9x + 54 = 0$
Or, $2x(x - 6) - 9(x - 6) = 0$
Or, $(2x - 9)(x - 6) = 0$
So, $x = 4.5$ or 6
From II:
 $2y^2 - 19y + 44 = 0$
Or, $2y^2 - 8y - 11y + 44 = 0$
Or, $2y(y - 4) - 11(y - 4) = 0$
Or, $(2y - 11)(y - 4) = 0$
So, $y = 5.5$ or 4
- | 'x' | Relation | 'y' |
|-----|----------|-----|
| 4.5 | < | 5.5 |
| 4.5 | > | 4 |
| 6 | > | 5.5 |
| 6 | > | 4 |
- Therefore, no relation can be established between 'x' and 'y'.
36. **Answer: (E)**
From equation I:
 $x^2 + 24x + 95 = (x + 19)(x + 5) = 0$
 $\Rightarrow x = -19, -5$
From equation II:
 $y^2 + 27y + 92 = (y + 23)(y + 4) = 0$
 $\Rightarrow y = -23, -4$
- | | | |
|---------|---------|--------|
| | X = -19 | X = -5 |
| Y = -23 | x > y | x > y |

Y = -4	x < y	x < y
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So, relationship cannot be established between x and y

37. **Answer: (C)**
Let the marked price of the article be ₹100x'
ATQ;
 $100x \times 0.7 + 90 = 100x \times 0.85 \times 0.85$
Or, $70x + 90 = 72.25x$
So, $90 = 2.25x$
So, $x = 40$
So, marked price of the article = $100 \times 40 = ₹4,000$
38. **Answer: (A)**
 $109\% \text{ of } 749 + ? \times (3.99)^{1/2} = (29.03)^2$
By taking approximate values, we get
 $110\% \text{ of } 750 + ? \times (4)^{1/2} = (29)^2$
 $825 + ? \times 2 = 841$
 $? \times 2 = 16$
 $? = 8$
39. **Answer: (C)**
 $76.06 \div 19.09 + (21.01 \times 17.79) = 37.99 \times 9.98 + ?$
 $76 \div 19 + (21 \times 18) = 38 \times 10 + ?$
 $4 + 378 = 380 + ?$
 $382 = 380 + ?$
 $? = 382 - 380$
 $? = 2$
40. **Answer: (D)**
 $39.77\% \text{ of } 40.08 - ? + 96.22 = (11.08)^2$
By taking approximate values, we get
 $40\% \text{ of } 40 - ? + 96 = 11^2$
 $16 - ? + 96 = 121$
 $112 - ? = 121$
 $? = -9$
41. **Answer: (C)**
Logic for the given series -
 $234 + 11 = 245$
 $245 + 14 = 259$
 $259 + 17 = 276$
 $276 + 20 = 296$
 $296 + 23 = 319$
Hence, missing term = 296
42. **Answer: (B)**
The pattern is as follows:
 $9^3 - 5 = 724$
 $8^3 - 6 = 506$
 $7^3 - 7 = 336$
 $6^3 - 8 = 208$
 $5^3 - 9 = 116$
 $4^3 - 10 = 54$
43. **Answer: (B)**
Logic for the given series:
 $122 + 4^0 = 123$ (not 124)
 $123 + 4^1 = 127$
 $127 + 4^2 = 143$
 $143 + 4^3 = 207$
 $207 + 4^4 = 463$
Hence, wrong term = 124
44. **Answer: (A)**
Simple interest received on investing ₹'Y' = $Y \times (8 \times 4.5 \div 100) = ₹0.36Y$
So, $0.36Y = 2700$
So, $Y = 2700 \div 0.36 = 7500$
So, total amount received on investing ₹(Y + 500)
= $(7500 + 500) \times \{1 + (10/100)\}^2$
= $8000 \times (110/100)^2$
= ₹9,680
45. **Answer: (A)**
Speed of the boat in still water = $45/3 = 15 \text{ km/h}$

So, upstream speed = $15 - 2 = 13$ km/h and
downstream speed = 17 km/h
According to the question,
 $(T + 34)/13 + (T + 41)/17 = 11$
 $\Rightarrow T = 44$

46. **Answer: (B)**

Let the usual speed of the car = $4x$ km/h
Then, increased speed of the car = $4x \times 1.25 = 5x$ km/h
Let the expected time taken to cover the distance of 900 km = t hours
Then, according to the question
 $(900/4x) = t + 1.5 = (225/x) - [I]$
Also, $(900/5x) = t - 1 = (180/x) - [II]$
Equation (I) - Equation (II), we get
 $(t + 1.5) - (t - 1) = (225/x) - (180/x)$
or, $2.5 = (45/x)$
so, $x = 45 \div 2.5 = 18$
so, usual speed of the car = $18 \times 4 = 72$ km/h
expected time taken = $(900/72) - 1.5 = 11$ hours
time taken by the car to cover 900 km when speed is increased by 8 km/h = $900 \div (72 + 8) = 11.25$ hours
so, the car takes 0.25 hours more than the expected time.

47. **Answer: (A)**

Let the quantity of mixture in container A = quantity of mixture in container B = a litres
Then, quantity of juice in bigger container = quantity of juice in container A + quantity of juice in container B = $a \times 3/(3 + 1) + a \times 5/(5 + 6) = 53a/44$
And quantity of water in bigger container = quantity of water in container A + quantity of water in container B = $a \times 1/(3 + 1) + a \times 6/(5 + 6) = 35a/44$
Hence, ratio = $(53a/44) : (35a/44) = 53 : 35$

48. **Answer: (A)**

Let after ' x ' months B withdraws 25% from his capital.
Total amount invested by A = $(5000 \times 3 + 7000 \times 9) = 78000$
Total amount invested by B = $[4000 \times x + 3000 \times (12 - x)] = (36000 + 1000x)$
Total amount invested by C = $7000 \times (12 - x) = (84000 - 7000x)$
Let total profit = $[78000] + [36000 + 1000x] + [84000 - 7000x] = (198000 - 6000x)$
Share of B = $9600 \times [(36000 + 1000x)/(198000 - 6000x)] = 1850$
 $[(36000 + 1000x)/(198000 - 6000x)] = 1850/9600 = 37/192$
 $192(36000 + 1000x) = 37(198000 - 6000x)$
 $192(36 + x) = 37(198 - 6x)$
 $32(36 + x) = 37(33 - x)$
 $1152 + 32x = 1221 - 37x$
 $69x = 69$
 $x = 1$
Profit of C = $9600 \times [(84000 - 7000x)/(198000 - 6000x)] = 9600 \times [(77000)/(192000)] = ₹3850$

49. **Answer: (E)**

Average = (sum of observations)/(number of observations)
Sum of salary of 30 employees = $30 \times 5000 = ₹150000$
Sum of salary of 10 new workers = $10 \times 60y = 600y$
Now, sum of salary of all $(30 + 10 = 40)$ workers = $(5000 + y + 500) \times 40 = 220000 + 40y$
Then, $150000 + 600y = 220000 + 40y$

$560y = 70000$

$y = 125$

50. **Answer: (B)**

Let the present ages of Rahul and Namita be $7x$ years and $6x$ years respectively.

According to the question
 $(7x + 10)/(6x + 10) = 19/17$
 $\Rightarrow 119x + 170 = 114x + 190$
 $\Rightarrow 119x - 114x = 190 - 170$
 $\Rightarrow 5x = 20$
 $\Rightarrow x = 4$

Present age of Rahul = $7x = 7 \times 4 = 28$ years
Present age of Namita = $6x = 6 \times 4 = 24$ years

Let they got married before x years

$(28 - x)/(24 - x) = 11/9$
 $\Rightarrow 9 \times (28 - x) = 11 \times (24 - x)$
 $\Rightarrow 252 - 9x = 264 - 11x$
 $\Rightarrow 11x - 9x = 264 - 252$
 $\Rightarrow 2x = 12$
 $\Rightarrow x = 6$

Age of Rahul when they got married = $28 - 6 = 22$ years

Now

Let they got their first child before y years

$(28 - y)/(24 - y) = 13/11$
 $\Rightarrow 11 \times (28 - y) = 13 \times (24 - y)$
 $\Rightarrow 308 - 11y = 312 - 13y$
 $\Rightarrow 13y - 11y = 312 - 308$
 $\Rightarrow 2y = 4$
 $\Rightarrow y = 2$ years

Age of Rahul when they got their first child = $28 - 2 = 26$ years

$26 - 22 = 4$ years. Hence, they got their first child after four years of their marriage.

51. **Answer: (C)**

In city 'A',

Number of electric cars = $450 \times 0.4 = 180$

So, number of petrol cars = $450 - 180 = 270$

Similarly,

City	Number of electric cars	Number of petrol cars
A	180	270
B	225	150
C	156	364
D	220	180

Number of diesel cars in city 'A' = $270 \times (10/9) = 300$

52. **Answer: (D)**

Sum of number of electric cars in cities 'C' and 'E' = $170 \times 2 = 340$

So, number of electric cars in city 'E' = $340 - 156 = 184$

53. **Answer: (A)**

Number of petrol cars in city 'D' that are of Mahindra brand = $180 \times 0.45 = 81$

54. **Answer: (E)**

Required percentage = $\{(225 - 180)/180\} \times 100 = 25\%$

55. **Answer: (B)**

Number of petrol cars in city 'F' = $150 \times (34/25) = 204$
So, required difference = $364 - 204 = 160$

56. **Answer: (E)**

Total number of pages printed by all three printers on Monday = $360 \times 3 = 1080$

Number of pages printed by printer Z on Monday = 360

Number of pages printed by printer Y on Monday = 480

So, number of pages printed by printer X on Monday = $1080 - 360 - 480 = 240$

	Total	Z	Y	X
Mon	1080	360	480	240
Tue	1620	810	270	540
Wed	720	180	270	270
Thu	1440	360	630	450

The number of pages printed by printer Y on Tuesday and Friday together = $270 + 630 \times \frac{2}{3} = 690$

57. **Answer: (D)**
Required ratio = $360 : 270 = 4 : 3$
58. **Answer: (C)**
Required % = $(480 - 180) / 180 \times 100 = 166.66\%$
59. **Answer: (A)**
Required difference = $810 - 450 = 360$
60. **Answer: (D)**
Required average = $(240 + 540) / 2 = 390$

English Language

61. **Answer: (B)**
The final arrangement is 'RPQST'. 'R' introduces the subject of the paragraph which is how duty-free revenue affects the total non-aero revenues. 'P' takes the idea, which is about the share of duty-free revenue in the non-aero revenues, introduced by 'R' forward and informs that sales of liquor and cigarettes account for 75 to 80 percent of overall duty free sales. So, 'P' should be the first sentence and 'R' should be the second sentence. 'Q' introduces a new aspect about the subject and informs that there are restrictions placed on the sales of duty-free alcohol which would cause revenue loss. 'Q' also talks about what may be done, increasing aeronautical charges, to make up for the revenue loss. 'S' talks about to what extent aero-charges will go up by and also talks about the impact of rising aero-charges on ticket prices. 'T' talks about what would be the impact on passenger traffic due to rising aero charges and ticket prices. So, 'S' should follow 'Q' and 'T' should follow 'S'. So, 'Q' should be the third sentence, 'S' should be the fourth sentence and 'T' should be the fifth sentence.
Hence, the final arrangement is 'RPQST'. Hence, (b) is the correct answer.
62. **Answer: (D)**
63. **Answer: (C)**
64. **Answer: (E)**
65. **Answer: (A)**
66. **Answer: (E)**
(e) is the right answer. The sentence is grammatically and contextually correct.
67. **Answer: (B)**
(b) is the right answer. We need an adjective to modify the noun RELIEF. The sentence seeks to convey that loan waivers provide limited relief to the farmers as they use the money for non-farm purposes. PRACTICAL does not fit contextually. The practical aspects of something involve real situations and events, rather than just ideas and theories. PARTIAL fits contextually. You use PARTIAL to refer to something that is not complete or whole.
68. **Answer: (A)**
(a) is the right answer. We need a verb in the past participle form as the present perfect tense

construction HAVE + VERB always takes the past participle form of the verb. We need to replace RESPOND with RESPONDED. The sentence seeks to convey that a few states have implemented loan waiver schemes to farmers so as to provide them relief.

69. **Answer: (D)**
(d) is the right answer. We need an adjective to modify the noun ROLE. The sentence seeks to convey that major central banks of the world have been burdened with many tasks since the 2008 crisis and some politicians are even questioning their increased role. We need to replace EXPANSION with EXPANDED. EXPANSION is a noun.
70. **Answer: (D)**
(d) is the right answer. We need to replace SPADE with SPATE. SPADE does not fit contextually. A SPATE of things, especially unpleasant things, is a large number of them that happen or appear within a short period of time. The sentence discusses different reasons behind the suicides of farmers.
71. **Answer: (E)**
All the given sentences are grammatically and meaningfully correct. Thus, E is the right answer.
72. **Answer: (D)**
Subjective pronoun 'we' is incorrectly use at A where either an objective pronoun can fit in or a noun to act as the object of the clause 'a lot of ____'. Since 'reality' is an abstract noun that cannot know or understand a thing, its usage at D is absurd. Also, 'women' at E is not able to convey any logical meaning. Again, 'reality' cannot 'feel' so the only noun left to place at A is 'women' that would convey that the feelings of those women. Similarly, 'we' would be the subject of the clause '____ all know'. And, 'reality' would be placed at E. Rest of the words are correct and meaningful at their original places.
Correct sentence:
A lot of **women** felt there were no **brands** out there that catered to their **skin** tone- It was light, medium, medium dark, dark and **we** all know that's not **reality**.
73. **Answer: (B)**
The sentence talks about the most recent film or TV show in which the lead character's voice has been given by Chris Pratt, in a trend of adaptations of video game worlds, characters, and stories for television or film. The use of LATENT (existing but not active) is contextually incorrect and should be replaced with LATEST (most recent). Thus, B is the right answer.
74. **Answer: (D)**
The givens sentence is contextually and grammatically correct.
75. **Answer: (B)**
The first blank requires an adjective to qualify the noun 'qualities'. 'Significance' (the quality of being worthy of attention; importance) is a noun. So, option (d) is eliminated.
The second blank also requires an adjective to qualify the noun phrase 'consumer appreciation'. 'Divide' is a verb. So, option (a) is eliminated. 'Uniqueness' (the quality of being the only one of its kind) is a noun. So, option (e) is also eliminated. Common qualities don't lead to different or contrasting consumer appreciation. So, of the

remaining two options, option (b) is the appropriate choice.

The words 'distinctive' (characteristic of one person or thing, and so serving to distinguish it from others) and 'different' provide a coherent sentence. Hence, option (b) is the correct answer.

The correct sentence is: Wines produced from the same grape cultivars but in different locations possess **distinctive** qualities leading to **different** consumer appreciation.

76. **Answer: (E)**

In sentence A, the use of the apostrophe is grammatically incorrect. The apostrophe is used to indicate possession and not pluralisation. Here, a plural noun is needed and not any possessive form.

The correct sentence is: The library has a vast collection of books, each organised meticulously by genre.

Sentences B and C are grammatically correct and meaningful.

77. **Answer: (B)**

In B, replace the adjective LOW with the verb LOWER as the modal verb CAN will be followed by a base form verb. Thus, B is the right answer.

78. **Answer: (E)**

Part B has an error. The correct comparative form of the adjective 'large' is 'larger', and not 'more large'. Hence, (e) is the correct answer.

The correct sentence would be: Their company was **larger** and therefore more famous than any other start-up in the entire area.

79. **Answer: (E)**

The sentence tells us how Iran includes some components (elements) of a presidential system, with the highest (ultimate) authority placed (vested) in a dictatorial (autocratic) Supreme Leader. All the highlighted words are grammatically and contextually apt here. Thus, E is the right answer.

80. **Answer: (A)**

In the given sentence, the word 'exaggerate' is incorrectly spelt.

Exaggerate: to magnify beyond the limits of truth; overstate; represent disproportionately

Tussle: any vigorous or determined struggle, conflict, etc.

81. **Answer: (E)**

I - This sentence is about putting flowers in a garden so that they can grow. It uses the word "planted" in the context of gardening, as a verb.

II - This sentence describes a physical plant in a room, which is "tall" and "leafy." Here, the word is used as a noun.

III - In III, however, no possible meaning does fit in contextually. We can use the word 'plan' in place of 'plant' in the third statement.

82. **Answer: (C)**

CABD is the correct order of the parts of the sentence. C begins the sentence by describing the speaker's choice of reading when she was growing up. A will follow C, as the noun phrase A DIET..BOOKS in A can become the object of the preposition ON in C. Together, they will convey that the speaker used to read books that had a lot of images. BD will follow A as a pair. The noun TEXT-ONLY NOVELS in D can become the object of the verb READING in B. Together, they will convey that

the idea of reading such books that have a lot of text makes the speaker nervous.

The correct sentence is:

Having grown up on a diet of image-heavy books, I found the idea of reading text-only novels quite intimidating.

83. **Answer: (D)**

CBDA is the correct order of the parts of the sentence. C begins the sentence by establishing the subject - EVERY AUTHOR. B will follow C, as the adverb TOO in C can modify the adverb WELL in B. DA will follow B as a pair. The adverb BRILLIANTLY in D can modify the verb WORKS in B, and the verb FAIL in A can follow the modal verb MAY in D. After rearrangement, the sentence will convey that every author is aware of the fact that an activity that works brilliantly with one group may not work with another group.

The correct sentence is:

Every author knows only too well that an activity that works brilliantly with one group may fail miserably with another.

84. **Answer: (D)**

DABC is the correct order of the parts of the sentence. D begins the sentence by establishing the subject - PSYCHOLOGICAL ATTRIBUTES. A will follow D, as the preposition IN in A will come after the verb INVOLVED in D to convey that the attributes are involved in very simple phenomena. BC will follow A as a pair. The noun TIME in B can form the object of the preposition IN in A, and the indefinite article A in B can be used to determine the singular noun STIMULUS in C. Together, they will convey that the attributes are involved in simple phenomena like time taken to react to a stimulus as well as highly global concepts like happiness. Thus, D is the right answer.

The correct sentence is:

Psychological attributes are involved in very simple phenomena like in time taken to react to a stimulus and also in highly global concepts like happiness.

85. **Answer: (B)**

BADC is the correct order of the parts of the sentence. B begins the sentence by establishing the subject of the sentence - CAMPAIGNERS. A will follow B, as the THAT clause in A can form the object of the verb WARNED in B. Together, they will convey that campaigners have warned about the red squirrels in Wales. DC will follow A as a pair. The preposition OUT in D will come after the verb WIPED in A to form a phrasal verb and convey that the population of red squirrels faces the danger of going extinct, and the phrase A VACCINE..DEVELOPED in C will come after the conjunction UNLESS in D to introduce the situation in which the extinction will not take place.

The correct sentence is:

Campaigners have warned that Wales' red squirrels face being wiped out by a deadly virus unless a vaccine is developed.

86. **Answer: (E)**

All parts of the sentence are in the correct order. AB is a mandatory pair. Together, they convey that Michelle Collins is very frightened to enter her kitchen every morning. CD is another mandatory pair, and it follows B. Together, they convey that Michelle is afraid of the squirrels that have been living in her house. Thus, E is the right answer.

87. **Answer: (D)**
We need the present participle form of a verb to come after the auxiliary verb ARE and complete the present continuous tense structure. The sentence seeks to convey that the scientists are making people remember how to avoid bug bites. REMINDING (making someone remember something) will fit here. Thus, D is the right answer.
The remaining options are contextually incorrect.
APPRAISING - judging the value or quality of something.
AFFRONTING - insulting or offending someone.
CITING - mentioning something.
88. **Answer: (C)**
We need an adjective to come after the auxiliary verb IS and form the subject-complement of the noun THE TICK SPECIES. The sentence seeks to convey that the species is found all over the UK. WIDESPREAD (existing or found in many places) will fit here. Thus, C is the right answer.
The remaining options are contextually incorrect.
VENAL - willing to do immoral things for money.
PRUDENT - wise or judicious.
INCUMBENT - necessary.
PROOF - something that shows that something exists or is true.
89. **Answer: (B)**
We need a noun to form the object of the verb DEVELOP. The sentence seeks to convey that most people do not develop any feelings of mental or physical illness. SYMPTOMS (feelings of mental or physical illness caused by a disease) will fit here. Thus, B is the right answer.
The remaining options are contextually incorrect.
TRAITS - characteristics, especially those that belong to someone's personality.
OMENS - events that predict the future.
90. **Answer: (D)**
We need a noun to be modified by the adjective ENHANCED. The sentence talks about enhanced observation to detect the virus being carried out. SURVEILLANCE (close and continuous observation) will fit here. Thus, D is the right answer.
The remaining options are contextually incorrect.
RETALIATION - an act of revenge.
TRANSGRESSION - an act that breaks a law.
STIGMATISATION - to treat someone or something unfairly.
91. **Answer: (A)**
We need the present participle form of a verb to come after the auxiliary verb ARE and complete the present continuous tense structure, and highlight the action of examining the blood samples. TESTING (examining a part of body or body fluids) will fit here. Thus, A is the right answer.
The remaining options are contextually incorrect.
DISSENTING - disagreeing.
FALTERING - losing strength.
PEDDLING - selling things.
92. **Answer: (C)**
I: The first paragraph of the passage states that "scientists have created a brand-new, bizarre form of ice that has the same density as liquid water". According to this, statement I is correct.
II: The first paragraph of the passage states that "Unlike the crystalline ice that forms naturally on Earth, the newly created ice doesn't have an

organized molecular structure". According to this, statement II is correct.

III: The second paragraph of the passage states that "This process happens naturally in space, Salzmänn said, so low-density amorphous ice may be the most common form of ice in the universe". According to this, low-density ice is the most prevalent in space. The newly created medium-density ice is not the most prevalent. Therefore, statement III is not correct.

Hence, option (c) is the correct answer.

93. **Answer: (E)**

I: The second paragraph of the passage states that "This process happens naturally in space, Salzmänn said, so low-density amorphous ice may be the most common form of ice in the universe". According to this, the formation of low-density ice is very common. So, statement I is not true.

II: The first paragraph of the passage states that "Other types of amorphous ice have been made before, but they've been either much less dense or far denser than liquid water". According to this, medium-density ice is not the first amorphous ice that has been created.

III: The second paragraph of the passage states that "low-density amorphous ice, was discovered in the 1930s. It's made by depositing water vapour on very cold surfaces". According to this, statement III is true.

Hence, option (e) is the correct answer.

94. **Answer: (D)**

The second paragraph of the passage states that "This process happens naturally in space, Salzmänn said, so low-density amorphous ice may be the most common form of ice in the universe". According to this, the formation of low-density amorphous ice happens naturally.

Hence, option (d) is the correct answer.

95. **Answer: (C)**

The second paragraph of the passage states that "But no one ever had ever made amorphous ice with a medium density - that is, until Salzmänn and his colleagues decided to try ball milling ice". According to this, no one ever had ever made amorphous ice with a medium density. The passage states that brand-new, bizarre form of ice that has the same density as liquid water. The medium density refers to the density of water.

96. **Answer: (C)**

The second paragraph of the passage states that "A ball mill is a device kind of like a very advanced cocktail shaker. A material is put into a chamber with stainless-steel balls and shaken or turned until the material is ground up". According to this, option (c) is the most appropriate choice.

97. **Answer: (D)**

The second paragraph of the passage states that "The researchers expected that the ball mill would just break the ice crystals into smaller ice crystals". According to this, the researchers expected the crystal would break inside the chamber. So, the ball mill can be used to break materials.

98. **Answer: (B)**

The word 'chaotic' means 'in a state of complete confusion and disorder'.

Kempt: (of a person or a place) maintained in a neat and clean condition; well cared for.

Anarchic: with no controlling rules or principles to give an order.

Carnage: the killing of a large number of people.

Secretive: (of a person or an organization) inclined to conceal feelings and intentions or not to disclose information.

Organized: arranged or structured in a systematic way.

Among the given options, 'anarchic' is the most appropriate synonym for the given word.

99. **Answer: (D)**

The word 'manipulated' means 'control or influence cleverly or unscrupulously'.

Destroy: end the existence of (something) by damaging or attacking it.

Create: bring (something) into existence.

Arrange: put (things) in a neat, attractive, or required order.

Distort: alter or present (data) so as to mislead.

Misuse: use (something) in the wrong way or for the wrong purpose.

Among the given options, 'distort' is the most appropriate synonym for the given word.

100. **Answer: (D)**

The word 'disorganization' means 'lack of proper planning and control'.

Proud: feeling deep pleasure or satisfaction as a result of one's own achievements, qualities, or possessions or those of someone with whom one is closely associated.

Confusion: uncertainty about what is happening, intended, or required.

Easiness: the quality of being comfortable or relaxed, or free from worry or pain.

Pattern: a particular way in which something is done, is organized, or happens.

Jumble: an untidy and confused mixture of things, feelings, or ideas.

Among the given options, 'pattern' is the most appropriate synonym for the given word. Hence, option (d) is the correct answer.

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