



**VENKIS
COACHING**

*Hard work beats luck...
keep pushing forward!*



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SBI Clerk Pre

Solution

VENKIS COACHING

SBP-909184080-E

- BALAJI COLONY TIRUPATI CELL 9391794863
- DILSUKHNAGAR HYDERABAD CELL:9398611586
- OPP TO CLOCK TOWER VRC CENTRE NELLORE CELL:6301414541







VENKIS COACHING

Reasoning Ability

1. **Answer: (D)**

Clues:

- 1) R is taller than only two plants.
- 2) Q is shorter than S but taller than R.
- 3) O is taller than P, which is not the shortest plant.
- 4) Q is taller than O.

Inference:

From Clue 1, we get R is the 3rd shortest plant.
From Clue 2, we get S is either the tallest or the 2nd tallest, Q is either the 2nd tallest or the 3rd tallest plant.
From Clue 3, we get P is the 2nd shortest plant and T is the shortest plant.
From Clue 4, we get S is the tallest plant, Q is the 2nd tallest plant and O is the 3rd tallest plant.
Therefore, the final arrangement is given below:
S (tallest) > Q > O > R > P > T (shortest)
Therefore, only **three** plants are shorter than O.
Hence, option d.

2. **Answer: (B)**

Seven persons- Adil, Charu, Dilip, Gima, Hetal, Ishan and Jiten work in a Publishing company at different designations. The designations in increasing order are Assistant Editor, Editor, Managing Editor, Design Assistant, Designer, Head of Design and Manager such that Manager is the seniormost person and Assistant Editor is the junior most person.

Designation	Person
Manager	
Head of Design	
Designer	
Design Assistant	
Managing Editor	
Editor	
Assistant Editor	

Only three persons are senior to Dilip.

Designation	Person
Manager	
Head of Design	
Designer	
Design Assistant	Dilip
Managing Editor	
Editor	
Assistant Editor	

Charu is immediate senior to Adil but junior to Dilip.

	Case 1	Case 2
Designation	Person	Person
Manager		
Head of Design		
Designer		
Design Assistant	Dilip	Dilip
Managing Editor		Charu
Editor	Charu	Adil
Assistant Editor	Adil	

The number of persons junior to Adil is same as the number of persons senior to Jiten.

Neither Gima nor Jiten is the seniormost person. Thus, Case 1 gets cancelled.

	Case 2
Designation	Person
Manager	
Head of Design	Jiten
Designer	
Design Assistant	Dilip
Managing Editor	Charu
Editor	Adil
Assistant Editor	

Ishan is junior to Gima.

Neither Gima nor Jiten is the seniormost person.

Designation	Person
Manager	
Head of Design	Jiten
Designer	Gima
Design Assistant	Dilip
Managing Editor	Charu
Editor	Adil
Assistant Editor	Ishan

Now, only Hetal is remaining.

Designation	Person
Manager	Hetal
Head of Design	Jiten
Designer	Gima
Design Assistant	Dilip
Managing Editor	Charu
Editor	Adil
Assistant Editor	Ishan

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

3.

Answer: (D)

The designation of Gima is Designer.

4.

Answer: (A)

No persons are junior to Ishan.

5.

Answer: (D)

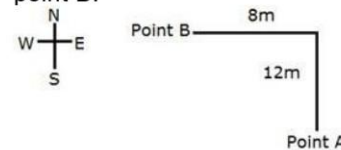
Adil is immediate senior to Ishan.

6.

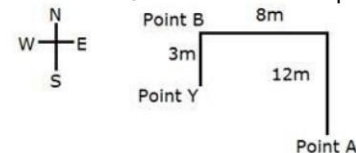
Answer: (C)

Starting from point A, Radha moves 12m in the north direction.

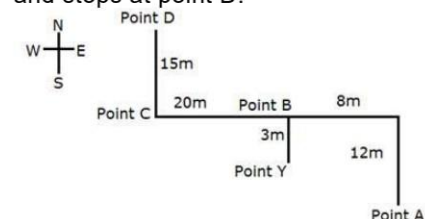
She then turns to her left and moves 8m to reach point B.



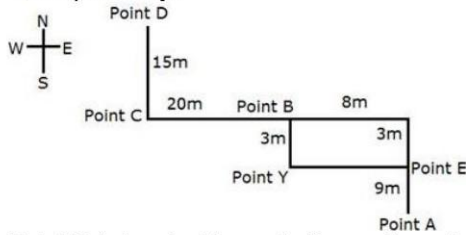
Point Y is 3m to the south of point B.



From point B, she moves 20m to the west to reach point C. She then turns to her right and moves 15m and stops at point D.



Point E is to the north and east of point A and point Y, respectively.



Point D is located towards the northwest of point E.

7. **Answer: (D)**

The shortest distance between point Y and point A
 $= \sqrt{8^2 + 9^2} = \sqrt{64 + 81}$
 $= \sqrt{145} \sim 12m$

8. **Answer: (B)**

So, the distance between point D and point Z = 20+8 = 28m

9. **Answer: (C)**

It is given that,

The places are Aquarium, Beach, Cathedral, Garden, Library, Museum, Palace and Zoo.

The dates are 4, 8, 12 and 16.

The months are March and June.

Two places were visited between the palace and the aquarium and both these places were not visited in March.

Three places were visited between the palace and the library.

Garden and Library were visited in adjacent slots.

We get,

Case 1,

	4	8	12	16
March	Library	Garden		
June	Palace			Aquarium

Case 2,

	4	8	12	16
March			Garden	Library
June	Aquarium			Palace

Museum and the garden were visited on the same date.

Only one place was visited between the cathedral and the museum.

Here, case 2 is invalid.

We get,

	4	8	12	16
March	Library	Garden		Cathedral
June	Palace	Museum		Aquarium

Beach and the museum were not visited in the same month.

The final arrangement is,

	4	8	12	16
March	Library	Garden	Beach	Cathedral
June	Palace	Museum	Zoo	Aquarium

Aquarium was the last place visited by Ajay.

10. **Answer: (B)**

Zoo was visited on 12th June.

11. **Answer: (D)**

Library and the beach were visited in the same month.

12. **Answer: (C)**

The garden was visited on 8th March.

13. **Answer: (A)**

All places except the cathedral were visited in June.

14. **Answer: (D)**

From statements I and III, we concluded that 'long' is coded as 'tel'.

From statements I and IV, we concluded that 'distance' is coded as 'mip'

From statements II and III, we conclude that 'far' is coded as 'nem'

From statements I alone, we concluded that 'travel' and 'is' is coded as 'ser' and 'jes', however not necessarily in the same order.

From statements II and IV, we concluded that 'from' is coded as 'kep'

From statement II alone, we concluded that 'journey' and 'enough' is coded as 'per' and 'oer', however not necessarily in the same order.

From statement III alone, we concluded that 'settle' is coded as 'qem'.

From statement IV alone, we concluded that 'rough' is coded as 'zey'.

The final table is shown below:

W	lo	dist				fr	jou	en	se	ro
o	n	anc	fa	tra		o	rne	ou	ttl	ug
d	g	e	r	vel	is	m	y	gh	e	h
C			n	ser	jes	k	per	oer		
o	te		e	/je	/se	e	/oe	/pe	qe	ze
e	l	mip	m	s	r	p	r	r	m	y

The code for the word 'is enough' cannot be determined.

15. **Answer: (C)**

'settle rough' is coded as 'qem zey' in the given coded language.

16. **Answer: (B)**

If 'travel repeat from' is coded as 'ser, klo, kep' in the given code language then,

W	lo	dist	fa	tra	i	fr	jour	eno	se	ro
o	n	anc	r	ve	s	o	ney	ugh	ttl	ug
d	g	e		l		m			e	h
C			n		j	n	per	oer/	qe	ze
o	te		e	se	e	e	/oe	per	m	y
e	l	mip	m	r	s	m	r	per	m	y

The code for the word 'is distance double' in the given code language can be 'jes, mip, lik'.

17. **Answer: (C)**

Given words: FEAR MATE CROW TALE DEAR
 After arranging in dictionary order from left end, then
 CROW DEAR **FEAR** MATE TALE
 Third word from the right end is FEAR.

18. **Answer: (D)**

Given words: FEAR MATE CROW TALE DEAR
 After rearrangement:
 AEFR **TAME** ORCW **LATE** AEDR
 If first and third letter of each word is interchanged, then two meaningful English words can be formed after the rearrangement.

19. **Answer: (B)**

Given words: FEAR MATE CROW TALE DEAR
 Third word from left end is CROW and second letter is R.
 First word from right end is DEAR and second letter is E.

There are twelve letters between E and R in the English alphabetical series.

20. **Answer: (D)**

· Seven students P, Q, R, S, T, U and V study in three different colleges namely, College A, College

B and College C. At least two students study in each college.

Student → College ↓	A person who studies in that college	A person who does not study in that college
College A		
College B		
College C		

· Neither P nor Q studies in College B.

Student → College ↓	A person who studies in that college	A person who does not study in that college
College A		
College B		P, Q
College C		

· R studies in college B.

Student → College ↓	A person who studies in that college	A person who does not study in that college
College A		
College B	R	P, Q
College C		

· Neither P nor U studies in college A.

· So, P studies in College C.

Student → College ↓	A person who studies in that college	A person who does not study in that college
College A		P, U
College B	R	P, Q
College C	P	

· U does not study in college C.

· So, U studies in College B.

Student → College ↓	A person who studies in that college	A person who does not study in that college
College A		P, U
College B	R, U	P, Q
College C	P	U

· Q and T study in the same college and no other student studies in the same college.

· So, Q and T study in College A.

· Three students study in college C.

· Remaining, S and V studies in college C.

Student → College ↓	A person who studies in that college	A person who does not study in that college
College A	Q, T	P, U
College B	R, U	P, Q
College C	P, S, V	U

Finally, we get,

Student → College ↓	A person who studies in that college
College A	Q, T

College B	R, U
College C	P, S, V

All P, S and V study in college C.

21. **Answer: (B)**

T studies in college A.

22. **Answer: (A)**

U studies in the same college in which R studies.

23. **Answer: (C)**

S, college C is the correct combination.

24. **Answer: (B)**

Statements:

$M > J > U = Y \leq T \leq W > O > G, X < V \leq G$

On combining the above statements, we get:

$M > J > U = Y \leq T \leq W > O > G \geq V > X$

Conclusions:

I. $W > V$: True (As $W > O > G \geq V > X$, here $W > V$)

II. $T > J$: False (As $J > U = Y \leq T$, here relation between T and J cannot be determined.)

III. $U > X$: False (As $U = Y \leq T \leq W > O > G \geq V > X$, here relation between U and X cannot be determined.)

Therefore, only conclusion I is true.

25. **Answer: (D)**

Given statements: $Z < U \geq V; X \geq T \geq R; R \geq W > U$

On combining the given statements, we get:

$X \geq T \geq R \geq W > U \geq V; X \geq T \geq R \geq W > U > Z$

Conclusions:

I. $X \geq U$: False (As, $X \geq T \geq R \geq W > U$, so, $X > U$)

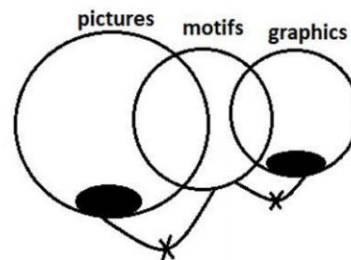
II. $Z > T$: False (As, $T \geq R \geq W > U > Z$, so, $Z < T$)

III. $V \leq X$: False (As, $X \geq T \geq R \geq W > U \geq V$, so, $V < X$)

Therefore, none of the above conclusions are true.

26. **Answer: (D)**

Only a few pictures are motifs. Only a few graphics are motifs.



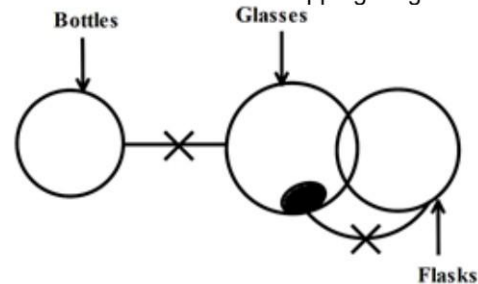
Some graphics are definitely not motifs is true. Some pictures are graphs is a possibility but not a definite truth. All pictures can never be motifs is true. Only I and III follows.

27. **Answer: (D)**

The given statements are,

No bottles are glasses. Only a few glasses are flasks.

The basic minimum overlapping diagram is,



Here, no glasses are bottles, and all flasks can never be bottles.

Hence, both conclusions do not follow.

28. **Answer: (D)**

11 people were seated between A and B where B was to the right of A.

A _____ **B**
Number of people seated to the left of C was one more than thrice the number of people seated to the right of C. There were not more than 19 people seated in the row.

So the number of people to the left of C will be 4.

Case 1:

_____ **A** _____ **C** **B** _____

Case 2:

_____ **A** _____ **C** **B** _____

Case 3:

_____ **A** _____ **C** **B** _____

E was seated to the right of B but not adjacent. So case 2 is invalid. Six people were seated between E and D.

Case 1:

_____ **A** _____ **D** _____ **C** **B** **E** _____

Case 3a:

_____ **A** _____ **D** _____ **C** **B** **E** _____

Case 3b:

_____ **A** _____ **D** _____ **C** **B** **E** _____

Number of people seated between F and D was twice the number of people seated between F and A.

So all cases are invalid except 3a.

G was second to the right of F.

So finally we have:

_____ **A** _____ **F** **G** _____ **D** _____ **C** **B** _____ **E** _____

10 people were seated to the right of G.

29. **Answer: (D)**

18 people were seated in the row.

30. **Answer: (D)**

9 people were seated between E and G.

31. **Answer: (B)**

Starting Point: Start with C and F in order to create only two cases initially.

Clues:

1) C is a prime numbered box.

2) F is kept immediately below C.

3) At least three boxes are kept below F.

Inference:

From Clue 1, we get C is 2nd or 3rd or 5th or 7th numbered box.

From Clue 2, we get F is 1st or 2nd or 4th or 6th numbered box.

From Clue 3, we get C is either 5th or 7th numbered box and F is either 4th or 6th numbered box.

Case 1: When C is 5th numbered box.

Box Number	Box Name
8	
7	
6	
5	C
4	F
3	
2	
1	

Case 2: When C is 7th numbered box.

Box Number	Box Name
8	
7	C

6	F
5	
4	
3	
2	
1	

Clues:

1) D is kept two boxes above E.

2) Only four boxes are kept between H and E.

3) H is kept on an even numbered box.

Inference:

From Clue 1 and 2, we get D is 8th or 3rd or 5th numbered box. E is 6th or 1st or 3rd numbered box.

H is 1st or 6th or 8th numbered box.

From Clue 3, we get H is not the 1st box.

Case 1:

Box Number	Box Name
8	
7	
6	H
5	C
4	F
3	D
2	
1	E

Case 2:

Box Number	Box Name
8	H
7	C
6	F
5	D
4	
3	E
2	
1	

Clues:

1) As many boxes are kept above J as below I. J is kept above I.

Inference:

From Clue 1, we eliminate Case 2 as we cannot place J and I. J is 7th numbered box, I is 2nd numbered box and G is 8th numbered box.

Therefore, the final arrangement is given below:

Box Number	Box Name
8	G
7	J
6	H
5	C
4	F
3	D
2	I
1	E

Only five boxes are kept above Box D.

32. **Answer: (D)**

Among the above options, both option 'A' and 'D' fit in the above blank.

Box I is kept below Box F.

Also, Box E is kept below Box F.

33. **Answer: (D)**

Among the above options, only I and III definitely fit in the above blank.

As many boxes are kept above Box C as below Box F. Also, As many boxes are kept above Box D as below Box H.

Therefore, Only I and III fit in the above blank.

34. **Answer: (C)**
All of the above boxes, except F, are prime numbered boxes.
35. **Answer: (B)**
So, position of only 'F' and 'H' remains unchanged.

Quantitative Aptitude

36. **Answer: (D)**
Diagonal of the rectangle = $\sqrt{24^2 + 7^2} = \sqrt{576 + 49} = \sqrt{625} = 25\text{cm}$
Diagonal of the rectangle = Height of the cylinder = 25 cm
Radius of the cylinder = $(7/5) \times 25 = 35\text{ cm}$
Curved surface area of the cylinder = $2 \times \pi \times \text{radius} \times \text{height} = 2 \times (22/7) \times 35 \times 25 = 5500\text{ cm}^2$

37. **Answer: (C)**
From I:
 $x^2 - 15x + 54 = 0$
Or, $x^2 - 6x - 9x + 54 = 0$
Or, $x(x - 6) - 9(x - 6) = 0$
Or, $(x - 6) \times (x - 9) = 0$
So, $x = 6$ or, $x = 9$
From II:
 $y^2 - 20y + 96 = 0$
Or, $y^2 - 8y - 12y + 96 = 0$
Or, $y(y - 8) - 12(y - 8) = 0$
Or, $(y - 8) \times (y - 12) = 0$
So, $y = 8$ or $y = 12$

'x'	Relation	'y'
9	<	12
9	>	8
6	<	12
6	<	8

So, relationship cannot be established.

38. **Answer: (A)**
From I:
 $x^2 - 25x + 156 = 0$
Or, $x^2 - 12x - 13x + 156 = 0$
Or, $x(x - 12) - 13(x - 12) = 0$
Or, $(x - 12) \times (x - 13) = 0$
So, $x = 12$ or, $x = 13$
From II:
 $y^2 - 3y - 54 = 0$
Or, $y^2 + 6y - 9y - 54 = 0$
Or, $y(y + 6) - 9(y + 6) = 0$
Or, $(y + 6) \times (y - 9) = 0$
So, $y = -6$ or $y = 9$

'x'	Relation	'y'
12	>	-6
13	>	-6
12	>	9
13	>	9

So, $x > y$.

39. **Answer: (A)**
 $\sqrt{1023.87} - ? \times 4.132 + 120.22 \times 3.99 = 0$
 $\sqrt{1024} - ? \times 4 + 120 \times 4 = 0$
 $32 - ? \times 4 + 480 = 0$
 $? \times 4 = 480 + 32$
 $? = 512/4$
 $? = 128$

40. **Answer: (B)**
 $80.02 \times 3.89/29.88 \times 14.78 + 65.99 = ? \times 1.98$
 $80 \times 4/30 \times 15 + 66 = ? \times 2$
 $160 + 66 = ? \times 2$
 $? = 226/2$

$$? = 113$$

41. **Answer: (C)**
Let the sum invested by 'A' and 'B' be ₹7x and ₹5x, respectively
According to the question,
 $\{(7x \times 5 \times 24) / 100\} = 3360$
Or, $8.4x = 3360$
Or, $'x' = (3360/8.4) = 400$
Therefore, sum invested by 'B' = $5x = 5 \times 400 = ₹2000$
Amount received by 'B' = $2000 \times \{1 + (50/100)\}^2 = 2000 \times 2.25 = ₹4500$

42. **Answer: (A)**
ATQ:
 $2 \times 'x' = 1.25 \times 'y'$
Or, $(x/y) = (1.25/2)$
Or, $(x/y) = (5/8)$
Let the value of 'x' and 'y' be '5a' and '8a', respectively
 $'8a' \times 0.5 = '5a' - 30$
Or, $'4a' = '5a' - 30$
Or, $'a' = 30$
Therefore, $(x + y) = (5a + 8a) = 13a = 13 \times 30 = 390$

43. **Answer: (D)**
Number of male and female employees in company A are in the ratio 5: 4 respectively and their difference is 90. Then,
Number of male employees in company A = $90 \times 5/(5 - 4) = 450$
Number of female employees in company A = $450 - 90 = 360$
Total employees in company A = $450 + 360 = 810$
Number of employees in three companies A, B and C together is 2000. Number of employees in company B is 70% of number of employees in company C. Then,
Total employees in company B and C = $2000 - 810 = 1190$

Total employees in company B = 70% of total employees in company C
Then, (total employees in company B): (total employees in company C) = 7: 10
Total employees in company B = $1190 \times 7/17 = 490$
Total employees in company C = $1190 - 490 = 700$
In company C, number of male employees is 20 less than that of female employees. Then,
Number of male employees in company C = $(700 - 20)/2 = 340$
Number of female employees in company C = $340 + 20 = 360$

There are 144 female employees in company B. Then,
Number of male employees in company B = $490 - 144 = 346$

In tabular form:

Company	Total employees	Male	Female
A	810	450	360
B	490	346	144
C	700	340	360

Male employees in company A = 450
And, total employees in company B = 490
Therefore, percentage = $(450/490) \times 100 = 92\%$ (approx.)

44. **Answer: (A)**
Number of male employees in company B = 346
Total employees in company C = 700
Therefore, difference = $700 - 346 = 354$
45. **Answer: (B)**
In company C:

Number of male employees working in morning shift = 60% of 340 = 204
Number of female employees working in morning shift = 40% of 360 = 144
Therefore, total employees working in morning shift = 204 + 144 = **348**

46. **Answer: (D)**

Here, number of female employees in company A = 360

And, number of female employees in company B = 144

Therefore, ratio = 360: 144 = **5: 2**

47. **Answer: (C)**

Total male employees = 450 + 346 + 340 = **1136**

48. **Answer: (D)**

64 of $5 \div 16 - ? = \sqrt{196}$

Or, $320 \div 16 - ? = \sqrt{196}$

Or, $20 - ? = 14$

Or, $? = 20 - 14$

Or, $? = 6$

49. **Answer: (D)**

$80 \times 2 - 36 \times 4 = ? - 45\%$ of 500

$160 - 144 = ? - 225$

$? = 241$

50. **Answer: (D)**

$50.5 + 450 \times 1.5 + 2.5 = ?$

$? = 53 + 675$

$? = 728$

51. **Answer: (B)**

$35 + 42 - 125 \div 75 \times 15 = ?$

Or, $77 - 125 \div 5 = ?$

Or, $77 - 25 = ?$

Or, $? = 52$

52. **Answer: (B)**

$29^2 + 1728 = 40 \times ? + 27^2$

Or, $29^2 - 27^2 + 1728 = 40 \times ?$

Or, $(29 + 27) \times (29 - 27) + 1728 = 40 \times ?$

Or, $56 \times 2 + 1728 = 40 \times ?$

Or, $112 + 1728 = 40 \times ?$

Or, $? \times 40 = 1840$

Or, $? = 1840 \div 40$

Or, $? = 46$

53. **Answer: (A)**

125% of 40 - 40% of 65 = $? \div 7$

$\Rightarrow 125/100 \times 40 - 40/100 \times 65 = ? \times 1/7$

$\Rightarrow 24 \times 7 = ?$

$\Rightarrow ? = 168$

54. **Answer: (C)**

$212 + [\sqrt{324} + \sqrt{81}]^2 = ?^3$

$212 + [18 + 9]^2 = ?^3$

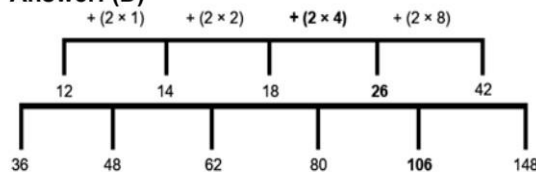
$212 + [27]^2 = ?^3$

$212 + 4 = ?^3$

$216 = ?^3$

So, $? = 6$

55. **Answer: (D)**



56. **Answer: (C)**

Logic for the given series -

$2520 \div 7 = 360$

$360 \div 6 = 60$

$60 \div 5 = 12$

$12 \div 4 = 3$

$3 \div 3 = 1$

Hence, missing term = 12

57. **Answer: (B)**

Logic for the given series-

$24 - 2 = 22$

$22 + 3 = 25$

$25 - 5 = 20$

$20 + 7 = 27$

$27 - 11 = 16$

$16 + 13 = 29$

Hence, missing term = 16

58. **Answer: (D)**

Logic for the given series-

$46 + 5 = 51$

$51 + 10 = 61$

$61 + 20 = 81$

$81 + 40 = 121$

$121 + 80 = 201$

$201 + 160 = 361$

Hence, missing term = 361

59. **Answer: (A)**

$171 + 1^2 = 172$

$172 + 2^2 = 176$

$176 + 3^2 = 185$

$185 + 4^2 = 201$

$201 + 5^2 = 226$

60. **Answer: (D)**

10% of total profit = $42000 \times 10/100 = 4200$

Remaining profit = $42000 - 4200 = ₹37800$

Ratio in which A, B and C share the remaining profit = **15000 : 20000 : 35000**

$\Rightarrow 3 : 4 : 7$

Share of C in the remaining profit = $7/14 \times 37800 = ₹18900$

Total profit amount of C = $18900 + 4200 = ₹23100$

61. **Answer: (D)**

Let the efficiency of each man and woman be 'M' units/day, and 'W' units/day, respectively.

ATQ:

$(14 \times M \times 6) = (10 \times W \times 12)$

Or, $84M = 120W$

Or, $(M/W) = (10/7)$

Let the value of 'M' and 'W' be '10x', and '7x', respectively

Total work = $(10 \times 7x \times 12) = '840x'$ units

Required time = $\frac{840x}{(7 \times 10x + 14 \times 7x)} = \frac{840x}{168x} = 5$ days

62. **Answer: (C)**

Let the speed of the boat in still water and the speed of the stream be 'x' km/hr and 'y' km/hr, respectively

Therefore, downstream speed of the boat = $(x + y)$ km/hr

Upstream speed of the boat = $(x - y)$ km/hr

According to the question,

$2 \times \{25/(x + y)\} = \{25/(x - y)\}$

Or, $2x - 2y = x + y$

Or, 'x' = 3y

Also,

$\{256/(x + y)\} + \{16/(x - y)\} = 12$

Or, $\{256/(3y + y)\} + \{16/(3y - y)\} = 12$

Or, $(256/4y) + (16/2y) = 12$

Or, $12y = 64 + 8$

Or, $y = (72/12) = 6$

Therefore, speed of the stream = 6 km/hr

63. **Answer: (B)**

CP of car = Rs 124000

Total maintenance cost = $4500 \times 3 = Rs 13500$

Cost price after maintenance = 124000 + 13500
= Rs 137500
SP of car = 137500 × 1.2 = Rs 165000

64. **Answer: (A)**

Since, both prime numbers are between 30 and 50 and difference between A and B is 12, then
Value of A and B = 31, 37, 41, 43, 47
There are only two value 31 and 43, which has a difference of 12.

Now,
A + B + C = 3 × 52
31 + 43 + C = 156
C = 82

65. **Answer: (D)**

Let the cost price of each litre of pure milk be ₹x
Therefore, cost price of 10 litres of pure milk + 8 litres of water = 10x + 0 = ₹10x
Selling price of 18 litres of mixture = 3 × 18x = ₹54x
Required profit percentage = $\frac{(54x - 10x)}{10x} \times 100 = 440\%$

66. **Answer: (D)**

	Airtel (in lakhs)	Jio (in lakhs)	Total (in lakhs)
November-22	10	20	30
December-22	20	30	50
January-23	50	40	90
February-23	80	60	140

Percentage growth in Airtel's 5G users in January-23 from November-22 = $\frac{(40-10)}{10} \times 100 = 400\%$

67. **Answer: (A)**

Number of new 5G users did Jio add in February-23 = 60 - 40 = 20 lakhs

68. **Answer: (D)**

Share of Jio's 5G users in total 5G users in month of December-22 = $\frac{30}{50} \times 100 = 60\%$

69. **Answer: (D)**

Total number of 5G users in March-23 = $\frac{140 \times 150}{100} = 210$ lakhs
Total number of 5G users in Nov-22 = 30 lakhs
Required average = $\frac{30+210}{2} = 120$ lakhs

70. **Answer: (B)**

Difference in number of Airtel's 5G users and Jio's 5G users in January-23 = 50 - 40 = 10 lakhs
Difference in number of Airtel's 5G users and Jio's 5G users in February-23 = 80 - 60 = 20 lakhs

English Language

71. **Answer: (D)**

Option (d) is grammatically incorrect, we use 'little' with uncountable nouns, but 'minutes' is a plural countable noun. We use 'few' with plural countable nouns.

So, 'little' should be replaced with 'few'.

Hence, (d) is the correct answer.

Note:

Countable and uncountable nouns: 1. Countable nouns are the class of nouns that can be counted, for example, 'table' – one table, two tables, three tables, etc. 2. Uncountable nouns are the nouns that cannot be counted or usually are not counted, for example, light, water, milk, information, furniture, etc. They do not generally have a plural form and can't be preceded by 'a' or 'an'. Many abstract nouns are typically uncountable. Some uncountable nouns can be used in the plural as well, depending on the meaning or context of the word.

72. **Answer: (D)**

The second position requires an uncountable noun as it is preceded by the uncountable quantifier 'little'. Among the options, 'effort' is apt here. It is illogical to say 'find a condemnations to this problem' because a problem needs an answer. So, 'find a solution to this problem' is apt here. Also, 'condemnations' is apt at the first place with 'denials' because both have negative connotation. Hence, option (d) is the correct answer.

The correct sentence - Apart from customary **condemnations** and denials whenever there are fishermen deaths, there is little **effort** from authorities on either side to find a **solution** to this problem.

73. **Answer: (A)**

The plural verb 'refer' does not agree with the singular subject 'exhaustion'. This violates the 'subject-verb agreement' rule. The singular verb 'refers' should replace 'refer'.

Note: - **Subject-Verb Agreement:** Matching up singular or plural subjects with singular or plural forms of a verb is part of the process called agreement. This can be understood better by the examples given: - "She likes cooking." [singular subject and verb] -- "They like to cook vegetables." [plural subject and verb]

Hence, the answer is option a).

74. **Answer: (C)**

In C, replace the present participle FINISHING with FINISHED as the HAD + VERB past perfect tense construction will take the past participle form of the verb. Thus, C is the right answer.

75. **Answer: (C)**

In C, replace the second form verb SANG with SUNG as the IS + VERB passive voice construction will take the past participle form of the verb. Thus, C is the right answer.

76. **Answer: (A)**

The error is in part A of the sentence. The adjective HIGH should be replaced with the adverb HIGHLY, as the word is being used to modify the adjective CONTAGIOUS. Thus, A is the right answer.

77. **Answer: (C)**

'Justice in other cases' would replace the highlighted phrase 'justice in another cases' because 'another' is used with singular noun but 'cases' is plural noun and the same is applied to eliminate options (b) and (d) because 'every' and 'each' are also used with singular noun. Option (a) can also be eliminated because 'other' is used with plural noun but 'case' is a singular noun.

Hence, option (c) is correct.

78. **Answer: (A)**

The incorrectly spelt word is 'recieved' and its correct spelling is 'received' (to accept, take delivery of, or be presented with something). Hence, the correct answer is option (a).

79. **Answer: (A)**

The phrase SEEK OUT means to look for or find someone or something, and has been used in the sentence to highlight Sneha's action of finding books by the particular authors. FIND has a similar meaning and can replace the bold phrase in the sentence. Thus, A is the right answer.

AVOID - to stay away from someone or something.

- EMPOWER - to give someone the authority to do something.
 MAINTAIN - to preserve or keep something in its existing state.
 EXCLUDE - to remove from consideration.
80. **Answer: (B)**
 The sentence tells us how he intends (aims) to make a careful search (exploration) of the shop before opening the door for customers (buyers) . The preposition THROUGH (by means of) should be replaced with THOROUGH (complete) . Thus, B is the right answer.
81. **Answer: (A)**
 The sentence seeks to convey that she was certain that he was puzzling over (confused about) some problem (issue) in connection (associated) with his work. The verb ENSURE (to guarantee) will not be contextually apt here. The correct word to be used is SURE (certain) . Thus, A is the right answer.
82. **Answer: (C)**
 We need a noun to be modified by the definite article THE. BEGINNING (start) will fit here as the sentence tells us how it was the start of a busy afternoon for her. Thus, C is the right answer.
 Announcement - declaration. Noise - loud sounds; din. Command - order. Respect - reverence.
83. **Answer: (A)**
 The sentence with the blank A talks about a study which experimented with college students by using pain and aggression simultaneously to explore the relationship between the two. Among the given options, 'induced' fits in the blank appropriately. The word 'induced' means to cause or produce, to incite or prevail upon.
 'Extracting' is incorrect as an -ing form of the verb (V4) requires the helping verb before it, which is not the case for the given blank.
 Other given options render the sentence meaningless.
 Hence, (a) is the correct answer.
84. **Answer: (B)**
 The sentence with the blank B talks about the effect of pain in regions involved with processing social information and directing responses. Among the given options, 'activity' fits in the blank appropriately. The word 'activity' means something done as an action or a movement.
 'Bloody' is an adjective, and hence, it cannot fill the blank; we require a noun to denote that effect on the region.
 Other given options render the sentence meaningless.
 Hence, (b) is the correct answer.
85. **Answer: (C)**
 The sentence with the blank C talks about a team of researchers from China who did a study to find out facts underlying pain-induced aggression. Among the given options, 'conducted' fits in the blank appropriately. The word 'conduct' means the act or method of controlling or directing.
 Other given options render the sentence meaningless.
 Hence, (c) is the correct answer.
86. **Answer: (D)**
 The sentence with the blank D talks about what cream is applied to the people under the group 'pain condition'. Among the given options, 'participants' fits in the blank appropriately. The word 'participant'

- means one who takes part or involves oneself in a particular activity.
 Other given options render the sentence meaningless.
 Hence, (d) is the correct answer.
87. **Answer: (D)**
 The sentence with the blank E talks about how participants were presented with resumes of other college students so that they can provide their feedback. Among the given options, 'evaluate' fits in the blank appropriately. The word 'evaluate' means to draw conclusions from examining.
 Options b) [-ing verb] and d) [-ed verb] are incorrect as they are not the base verbs [infinitive marker 'to' is always followed by the base verb].
 Other given options render the sentence meaningless.
88. **Answer: (A)**
 The given parts of the sentence talk about 'active listening' and so part D has to be the first part in the order. It is to be followed by part C which describes the subject further and the pair BA indicates the action that needs to be done about 'active listening'. Part B is followed by A as the infinitive marker in B will be followed by the base verb 'be' in part A. Therefore, the final order of the parts of the sentence is DCBA.
 The complete sentence is: Active listening is a crucial skill that needs to be cultivated.
 Hence, the correct answer is option (a).
Note: Infinitive: The infinitive is the base form of a verb, often preceded by to.
 Consider the sentences given below:
 · To err is human. [like a noun, the infinitive 'to err' is the subject of the verb 'is']
 · My father likes to cook. [like a noun, the infinitive 'to cook' is the object of the verb 'likes']
 · To vote in elections is our right. [the infinitive 'to vote', like a noun, is the subject of the verb 'is', but, like a verb, it also takes an object (elections)]
 · Radha went to the lake to fetch water. [the infinitive 'to fetch', like a noun, is the object of the verb 'went', but, like a verb, it also takes an object (water)]
 · The above sentences illustrate various ways in which infinitives are used. It can both act as a noun and a verb.
89. **Answer: (B)**
 Part D which talks about the subject ('contestants') of the sentence has to be the first part of the sentence which is to be followed by part C which indicates the action that is done to the subjects. Part A which starts with the base verb 'expect' can be used along with the infinitive marker 'to' in part C and can denote what is informed to the participants, so part A can follow part C and part B completes the sentence as it denotes the choice of participation. Therefore, the final order of the parts of the sentence is DCAB.
 The complete sentence is: Contestants are well informed of what to expect if they choose to participate.
 Hence, the correct answer is option (b).
Note:
Infinitive: The infinitive is the base form of a verb, often preceded by to.
 Consider the sentences given below:

- To err is human. [like a noun, the infinitive 'to err' is the subject of the verb 'is']
- My father likes to cook. [like a noun, the infinitive 'to cook' is the object of the verb 'likes']
- To vote in elections is our right. [the infinitive 'to vote', like a noun, is the subject of the verb 'is', but, like a verb, it also takes an object (elections)]
- Radha went to the lake to fetch water. [the infinitive 'to fetch', like a noun, is the object of the verb 'went', but, like a verb, it also takes an object (water)]
- The above sentences illustrate various ways in which infinitives are used. It can both act as a noun and a verb.

90. **Answer: (C)**

Part **B** has to be the first part as it can act as the part that introduces the premise of the sentence which can be followed by part **A** as they together define the premise. So, part **B** is followed by part **A**. Part **D** mentions how a friendship can be lost which can be connected to part **A** by the preposition 'over'. So, part **C** follows part **A** and part **D** follows part **C**. Therefore, the final order of the given parts of the sentence is **BACD**.

The complete sentence is: It is never worth losing a friend over an ideological division.

Hence, the correct answer is option (c).

Note:

A **Preposition** is a word placed before a noun or a pronoun or a noun equivalent (pronoun, adverb, gerund, infinitive, adverbial clause, or any clause that can be used as the object of the preposition) and shows a relationship in space or time or a logical relationship between two or more people, places, or things in a sentence.

Examples

I. The teacher scolded the child **for being** late.

II. We're going **to a** party.

· The words in bold are called prepositions because they normally take position before (pre) a noun/pronoun or a noun equivalent (pronoun, adverb, gerund, infinitive, adverbial clause, or any clause that can be used as the object of the preposition.

· The noun/pronoun which is used with a preposition is called its Object.

91. **Answer: (B)**

Part C has to be the first part which mentions the subject of the sentence which is 'the services'. It is followed by the pair DA which mentions the service availability and part B denotes the exact duration of the availability of the service and so, it follows part A. So, the final order of the parts of the sentence is **CDAB**.

The rearranged sentence is: The services will be available from Monday to Friday.

Hence, the correct answer is option (b).

92. **Answer: (C)**

'Exacerbate' means to make a problem or situation worse. 'Appalling' means causing shock or dismay. 'Awful' means very bad or unpleasant. 'Mollify' means reduce the severity of something. 'Disgraceful' means shameful. 'Engrossing' means interesting. So, 'mollify' is the most suitable antonym of the given word.

Hence, option (c) is the correct choice.

93. **Answer: (D)**

Statement I: This is a correct statement as it is mentioned in the passage that 'many of the most serious disorders, such as schizophrenia, bipolar disorder and depression, are identified during the late adolescence or the beginning of adulthood'.

Statement II: This statement is incorrect as it is mentioned in the 2nd paragraph of the passage that 'children and adolescents are especially vulnerable to sexual violence, which has a clear association with detrimental mental health.'

Statement III: This statement is correct as it is mentioned in the last paragraph of the passage that 'changes in mood and behaviour can provide important indicators of an adolescent's mental wellbeing, but these observations alone cannot be conclusive of mental illness'.

So, statement I and III are true.

Hence, option (d) is the correct choice.

94. **Answer: (B)**

'Chronic' means persisting for a long time (mainly used for a disease) or constantly recurring. 'Persistent' means continuing to exist or occur over a prolonged period. So, 'persistent' will be the correct meaning for the given word.

Hence, option (b) is the correct choice.

95. **Answer: (D)**

According to the passage, it is mentioned in the third sentence of the second paragraph that what are various factors that are increasing/causing stress among adolescents. 'Career-related decisions' is not a factor that is mentioned here for contributing stress. So, it is incorrect, as per the passage.

Hence, option (d) is the correct choice.

96. **Answer: (D)**

It is mentioned in the passage (second paragraph) that 'media influence and gender norms can exacerbate the disparity between an adolescent's lived reality and their perceptions or aspirations for the future.' So, both media influence and gender norms are the responsible factors for creating a disparity.

97. **Answer: (B)**

The various difficulties and discriminations are mentioned in this paragraph, which show their unsafe and exposed life and environments. So, 'particularly vulnerable to' is the correct phrase to show this susceptibility and risk. No other phrase is suitable to fit in the blank.

Hence, option (b) is the correct choice.

98. **Answer: (D)**

It is mentioned in the last paragraph of the passage that 'the educational or work environment and the peer group in this setting are important aspects in determining the mental health and well-being of adolescents and in influencing their behaviour.' So, all three are important aspects in determining the mental well-being of an individual (particularly teenagers). So, all of these is the appropriate answer.

99. **Answer: (D)**

The author discussed in the third paragraph of the passage that 'the pre-existing mental health problems may get worse as the adolescent undergoes this demanding phase of emotional and physical development.' So, the reason mentioned in option (d), which is the right answer.

100. **Answer: (B)**

As per the author, some teenagers have a greater risk of having a mental disorder than others and this happens because of their living conditions and the discriminations they face. It is mentioned in the fourth paragraph of the passage that 'adolescents living in humanitarian and fragile settings; adolescents with chronic illness, autism spectrum disorder, an intellectual disability or other

neurological condition; pregnant adolescents, adolescent parents, or those in early and/or forced marriages; orphans; and adolescents from minority ethnic or sexual backgrounds or other discriminated groups' are more prone to these disorders. Nothing about 'adolescents whose wishes are not granted by parents' and 'adolescents who do a lot of hard work' is discussed here so they are incorrect. Hence, option (b) is the correct choice.

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