



**VENKIS
COACHING**

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



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SSC CGL Pre

Solution

VENKIS COACHING

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General Intelligence and Reasoning

1. **Answer: (B)**
63 C 9 A 16 B 32 D 3 C 8
Replacing the symbols, we get:
 $63 \div 9 + 16 - 32 \times 3 \div 8$
 $= 7 + 16 - 12 = 23 - 12 = 11$
2. **Answer: (D)**
rmsktp/rmsktp/rmsktp/rmsktp
3. **Answer: (A)**
The logic followed here is all the letters of the words are changed to 3rd succeeding letter as per English alphabetical series.
In WAR: ZDU
- | | | |
|----|----|----|
| W | A | R |
| +3 | +3 | +3 |
| Z | D | U |
- Similarly, in YES: ?
- | | | |
|----|----|----|
| Y | E | S |
| +3 | +3 | +3 |
| B | H | V |
- So, YES is related to BHV.
4. **Answer: (D)**
On substituting the mathematical signs according to the options, we have:
In option 'a': $54 \div 9 = 3 - 2 + 4 \times 2 \div 7$
LHS:
 $= 54 \div 9$
 $= 63$
RHS:
 $= 3 - 2 + 4 \times 2 \div 7$
 $= 3 - 2 + 1.14$
 $= 4.14 - 2$
 $= 2.14$
LHS \neq RHS
In option 'b': $54 \div 9 + 3 \times 2 - 4 + 2 = 7$
LHS:
 $= 54 \div 9 + 3 \times 2 - 4 + 2$
 $= 6 + 3 \times 2 - 4 + 2$
 $= 6 + 6 - 4 + 2$
 $= 14 - 4$
 $= 10$
LHS \neq RHS
In option 'c': $54 = 9 - 3 \times 2 + 4 - 2 \times 7$
RHS:
 $= 9 - 3 \times 2 + 4 - 2 \times 7$
 $= 9 - 6 + 4 - 14$
 $= 13 - 6 - 14$
 $= 13 - 20$
 $= -7$
LHS \neq RHS
In option 'd': $54 \div 9 - 3 = 2 + 4 \times 2 - 7$
LHS:
 $= 54 \div 9 - 3$
 $= 6 - 3$
 $= 3$
RHS:
 $= 2 + 4 \times 2 - 7$
 $= 2 + 8 - 7$
 $= 10 - 7$
 $= 3$
LHS = RHS
5. **Answer: (C)**
The logic followed here is, the 2nd letter of the word is the 3rd succeeding letter of the 1st letter, the 3rd letter is the 5th succeeding letter of the 2nd letter and the

4th letter is the 7th succeeding letter, as per English alphabetical series.

In option 'A', 'WZEL':

$W + 3 = Z, Z + 5 = E, E + 7 = L$

In option 'B', 'KNSZ':

$K + 3 = N, N + 5 = S, S + 7 = Z$

In option 'C', 'QTYG':

$Q + 3 = T, T + 5 = Y, Y + 7 = F$

In option 'D', 'HKPW':

$H + 3 = K, K + 5 = P, P + 7 = W$

So, 'QTYG' is the odd word.

6. **Answer: (D)**

The logic followed here is second and fourth number is equal to the square of first number and third number minus 2 respectively.

In '23: 527'

$23^2 - 2 = 529 - 2$

$= 527$

In '31: 959'

$31^2 - 2 = 961 - 2$

$= 959$

Similarly, in '27: ?'

$27^2 - 2 = 729 - 2$

$= 727$

7. **Answer: (C)**

The paper, when unfolded will look as shown below:



8. **Answer: (B)**

Clues:

1) J is father of N.

2) K is sister of L.

3) N is son of K.

4) M is brother-in-law of O.

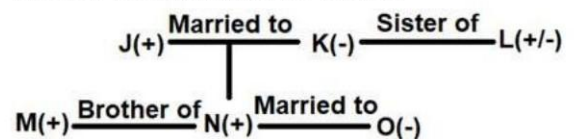
5) M is nephew of L.

Inferences:

From clue 1, 2 and 3, J is husband of K, who is sister of L. N is son of N and K.

From clue 3 and 4, M is son of K. O is wife of N.

We draw the following blood relation:

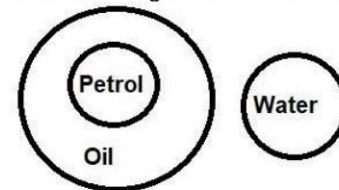


O is daughter-in-law of J.

9. **Answer: (D)**

All Petrol is Oil and neither Oil nor Petrol is Water.

So, the Venn diagram that best illustrates relationship between the given classes is as follows:



10. **Answer: (A)**

Difference between 1st number to 2nd number is same as 2nd number to 3rd number.

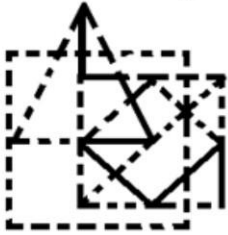
$(432, 348, 264) \Rightarrow 432 - 348 = 348 - 264$

$(288, 337, 386) \Rightarrow 337 - 288 = 386 - 337$

(348, 317, 286) \Rightarrow 348 - 317 = 317 - 286

11. **Answer: (C)**

The embedded figure is shown below:



12. **Answer: (B)**

The logic followed here is as follows:

Code = Sum of place value of letters at odd place from left end

For 'HUT',

code = position value ('H', 'T')

code = 8 + 20

code = 28

For 'LORDS':

code = position value ('L', 'R', 'S')

Code = 12 + 18 + 19

code = 49

For 'HINTS':

code = position value ('H', 'N', 'S')

Code = 8 + 14 + 19

code = 41

Hence, 'HINTS' is coded as '41'.

13. **Answer: (D)**

The correct order of the given words as they would appear in an English dictionary is as follows:

1- Gamble, 2- Gambler, 3- Game, 5- Gaming, 4- Gamma

'1, 2, 3, 5, 4' is the correct order of the given words as they would appear in an English dictionary.

14. **Answer: (B)**

Given equation: $28 + 18 \div 12 \times 16 - 19 = 96$

In option 'a':

After interchanging 28 and 16, we get

$16 + 18 \div 12 \times 28 - 19 = 96$

$16 + 3 \times 14 - 19 = 96$

$16 + 42 - 19 = 96$

$58 - 19 = 96$

$39 \neq 96$

In option 'b':

After interchanging 12 and 96, we get

$28 + 18 \div 96 \times 16 - 19 = 12$

$28 + 3 - 19 = 12$

$31 - 19 = 12$

$12 = 12$

In option 'c':

After interchanging 16 and 96, we get

$28 + 18 \div 12 \times 96 - 19 = 16$

$28 + 3 \times 48 - 19 = 16$

$28 + 144 - 19 = 16$

$153 \neq 16$

In option 'd':

After interchanging 28 and 19, we get

$19 + 18 \div 12 \times 16 - 28 = 96$

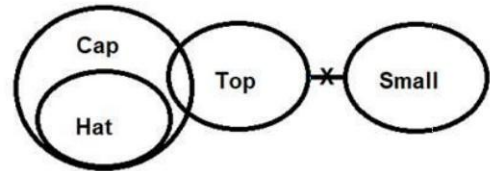
$19 + 6 \times 4 - 28 = 96$

$19 + 24 - 28 = 96$

$15 \neq 96$.

15. **Answer: (C)**

The following Venn diagram can be drawn from the given statements,



From the above Venn diagram, neither conclusion I nor II follows.

16. **Answer: (D)**

The logic followed here is in every step inner square is rotating 90° in anticlockwise direction.

The complete figure series is as follows:



17. **Answer: (A)**

The logic followed here is as follows:

$G + 2 = I, I + 2 = K, K + 2 = M, M + 2 = O, O + 2 = Q$

$U - 4 = Q, Q - 4 = M, M - 4 = I, I - 4 = E, E - 4 = A$

$N - 2 = L, L - 2 = J, J - 2 = H, H - 2 = F, F - 2 = D$

$K + 4 = O, O + 4 = S, S + 4 = W, W + 4 = A, A + 4 = E$

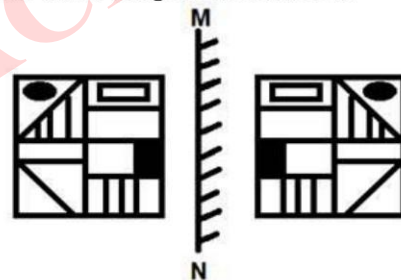
'QADE' will replace the question mark [?] in the given series.

The complete series is as follows:

JUNK, IQLO, KMJS, MIHW, OEFA, **QADE**

18. **Answer: (B)**

The mirror image is shown below:



19. **Answer: (D)**

The logic followed here is:

The 1st number is multiplied by 1.2 to get the 2nd number.

In option 'A', '25 - 30'

$(25 \times 1.2) = 30$

In option 'B', '45 - 54'

$(45 \times 1.2) = 54$

In option 'C', '60 - 72'

$(60 \times 1.2) = 72$

In option 'D', '40 - 52'

$(40 \times 1.2) = 48 \neq 52$

Therefore, all of the above options follow the same logic except option 'd'.

20. **Answer: (B)**

The logic followed here is:

All the letters are reversed within the word and then all the letters of the word is written as the immediate preceding letter as per the English Alphabetical series.

As 'INSPIRE' is written as 'DQHORMH'

I	N	S	P	I	R	E
E	R	I	P	S	N	I
D	Q	H	O	R	M	H

'DESPAIR' is written as 'QHZORDC'

D	E	S	P	A	I	R
---	---	---	---	---	---	---

R	I	A	P	S	E	D
Q	H	Z	O	R	D	C

Similarly,

'COUNTER' is written as 'QDSMTNB'

C	O	U	N	T	E	R
R	E	T	N	U	O	C
Q	D	S	M	T	N	B

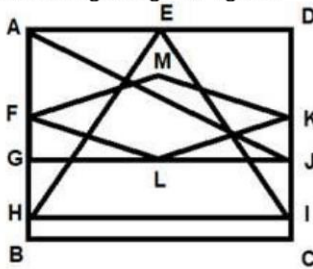
As 'INSPIRE' is written as 'DQHORMH' and 'DESPAIR' is written as 'QHZORDC' in the same way 'COUNTER' is written as 'QDSMTNB'.

21. **Answer: (C)**

Elephant is a Mammal. Similarly, Ladybugs are Insects.

22. **Answer: (C)**

On naming the given figure:



In the given figure,

The horizontal lines are AD, GJ, HI and BC i.e., 4 in number.

The vertical lines are AB and DC i.e., 2 in number.

The slanting lines are HE, EI, AJ, FL, LK, FM, MK i.e., 7 in number.

So, there are 13 (4 + 2 + 7) straight lines in given figure.

23. **Answer: (B)**

The logic followed here is as follows:

Third number = (First number)³ - (Second number)²

For First row, '7, 6, 307':

Third number = 7³ - 6²

Third number = 343 - 36

Third number = 307

For Second row, '9, 25, 104':

Third number = 9³ - 25²

Third number = 729 - 625

Third number = 104

For Third row, '6, 11, [?]:'

Third number = 6³ - 11²

Third number = 216 - 121

Third number = 95

So, '95' will replace the question mark [?].

24. **Answer: (A)**

The logic followed here is as follows:

Alternately add and multiply successive even numbers starting from '2'.

42 + 2 = 44

44 × 4 = 176

176 + 6 = 182

182 × 8 = 1456

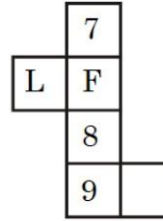
1456 + 10 = 1466

'182' will replace the question mark [?] in the given series.

The complete series is as follows:

42, 44, 176, 182, 1456, 1466

25. **Answer: (D)**



8 and L can come on the adjacent faces of the face containing 'F' on it.

Quantitative Aptitude

26. **Answer: (B)**

Let the cost price of the other mixture be ₹'x/kg'

ATQ;

$$\frac{(8 \times 36) + (12 \times x)}{8 + 12} = 45.6$$

$$\text{Or, } 288 + 12x = 912$$

$$\text{Or, } 12x = 624$$

$$x = 52$$

So, price of the other mixture = ₹52/kg

27. **Answer: (B)**

Angle subtended by a chord on the circle is twice the angle subtended by the same chord on the circumference of the circle.

$$\text{So, } \angle BOC = 2 \times \angle BAC$$

$$= 2 \times 72^\circ$$

$$= 144^\circ$$

28. **Answer: (B)**

Mean proportion of two numbers 'a' and 'b' = $\sqrt{a \times b}$

$$\text{Mean proportion of 40 and 19.6} = \sqrt{40 \times 19.6}$$

$$= \sqrt{784} = 28$$

29. **Answer: (C)**

Let the efficiency of a man and a woman be 'x' units/day and 'y' units/day, respectively.

$$\text{ATQ, } 45x \times 12 = 60y \times 18$$

$$\text{So, 'x' = 2y}$$

$$\text{Required time} = \frac{45x \times 12}{6x + 18y} = \frac{540x}{6x + 9x} = \frac{540x}{15x} = 36 \text{ days}$$

30. **Answer: (D)**

ATQ;

$$17 + 42 + 78 + 64 + 32 + x = 46 \times 6$$

$$\text{Or, } x = 276 - (17 + 42 + 78 + 64 + 32)$$

$$\text{So, } x = 43$$

$$\text{So, required value} = 43^2 = 1849$$

31. **Answer: (B)**

Let the sum be ₹'x'.

$$\text{Compound interest earned} = x \times \left\{ \left(1 + \frac{8}{100} \right)^3 - 1 \right\}$$

$$\text{Or, } 909 = x \times \left(\frac{19683 - 15625}{15625} \right)$$

$$\text{Or, 'x' = } \frac{909 \times 15625}{4058}$$

$$\text{Or, 'x' } \sim 3500.03$$

$$\text{So, 'x' } \sim 3500$$

32. **Answer: (A)**

$$\text{Cost price of the article} = 1680 \div 1.4 = ₹1,200$$

$$\text{So, selling price of the article} = 1200 + 312 = ₹1,512$$

33. **Answer: (B)**

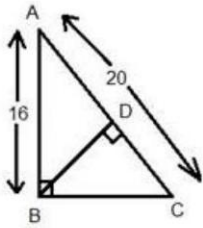
$$80 \text{ km/h} = 80 \times (5/18) = (200/9) \text{ m/s}$$

$$\text{So, length of the train} = (200/9) \times 27 = 600 \text{ metres}$$

$$\text{Increased speed of the train} = 80 + 10 = 90 \text{ km/h} = 90 \times (5/18) = 25 \text{ m/s}$$

$$\text{So, time taken to cross a 150-metre-long platform} = (600 + 150) \div 25 = 30 \text{ seconds}$$

34. **Answer: (A)**



$$BC = \sqrt{20^2 - 16^2} = \sqrt{400 - 256}$$

$$= \sqrt{144} = 12 \text{ cm}$$

Let the length of BD be 'x' cm.

For ΔABC , area = $(1/2) \times \text{base} \times \text{height}$

$$\text{So, } (1/2) \times 12 \times 16 = (1/2) \times x \times 20$$

$$\text{Or, } 192 = x \times 20$$

$$\text{So, } 'x' = (192/20) = (48/5) \text{ cm}$$

35. **Answer: (B)**

$$\frac{7}{5} \div \left[\frac{4}{5} - \frac{2}{7} \div \frac{3}{7} \right] - \left(\frac{4}{7} - \frac{5}{6} \right)$$

$$= \frac{7}{5} \div \left[\frac{4}{5} - \frac{2}{3} \right] - \left(\frac{24 - 35}{42} \right)$$

$$= \frac{7}{5} \div \left[\frac{12 - 10}{15} \right] + \frac{11}{42}$$

$$= \frac{7}{5} \div \frac{2}{15} + \frac{11}{42}$$

$$= \frac{21}{2} + \frac{11}{42}$$

$$= \frac{(441 + 11)}{42} = \frac{226}{21}$$

36. **Answer: (B)**

$$\left(a^2 + \frac{1}{a^2} \right)^2 = a^4 + \frac{1}{a^4} + 2$$

$$\text{Or, } \left(a^2 + \frac{1}{a^2} \right)^2 = 527 + 2$$

$$\text{or, } \left(a^2 + \frac{1}{a^2} \right)^2 = 529$$

$$\text{So, } \left(a^2 + \frac{1}{a^2} \right) = 23$$

$$\text{Now, } \left(a + \frac{1}{a} \right)^2 = a^2 + \frac{1}{a^2} + 2$$

$$\text{or, } \left(a + \frac{1}{a} \right)^2 = 23 + 2$$

$$\text{Or, } \left(a + \frac{1}{a} \right)^2 = 25$$

$$\text{So, } \left(a + \frac{1}{a} \right) = 5$$

$$\text{Since, } \frac{1 + a^0}{a^3} = a^3 + \frac{1}{a^2}$$

$$\left(a + \frac{1}{a} \right)^3 = a^3 + \frac{1}{a^2} + 3 \left(a + \frac{1}{a} \right)$$

$$\text{Or, } 5^3 = a^3 + \frac{1}{a^2} + 3 \times 5$$

$$\text{Or, } 125 = a^3 + \frac{1}{a^2} + 15$$

$$\text{So, } a^3 + \frac{1}{a^2} = 110$$

37. **Answer: (B)**

$$\text{Required sum} = \{96 \times (7/12)\} + \{121 \times (4/11)\} + \{72 \times (3/8)\} + \{104 \times (5/8)\} = 56 + 44 + 27 + 65 = 192$$

38. **Answer: (A)**

$$\text{Since, } \sec^2 \theta - \tan^2 \theta = 1$$

$$\text{Therefore, } \sec^2 \theta = 1 + (2/\sqrt{5})^2 = \{(5 + 4)/5\} = (9/5)$$

$$\text{Therefore, } \cos^2 \theta = (1/\sec^2 \theta) = (5/9)$$

39. **Answer: (A)**

If a number is divisible by 2 and 3, then the number will also be divisible by 6.

Since, all the three numbers are even, so all the numbers are divisible by '2'.

Now, if the sum of the digits of a number is completely divisible by '3', then the number will also be divisible by '3'.

$$\text{So, For, } 48624 = (4 + 8 + 6 + 2 + 4) \div 3 = 24 \div 3 = 8$$

So, 48624 is divisible by 3 and hence it is divisible by 6 also.

$$\text{Now, for } 85642 = (8 + 5 + 6 + 4 + 2) \div 3 = 25 \div 3 \sim 8.33$$

So, 85642 is not divisible by 3 and hence it is not divisible by 6 also.

$$\text{Now, for } 87896 = (8 + 7 + 8 + 9 + 6) \div 3 = 38 \div 3 \sim 12.667$$

So, 87896 is not divisible by 3 and hence it is not divisible by 6 also

40. **Answer: (A)**

$$\text{Required difference} = (176 + 160) - (155 + 148) = 336 - 303 = 33$$

41. **Answer: (D)**

Let the original fraction be $= \frac{x}{y}$

According to the question,

$$\frac{x + 25}{y \times 10} = \frac{x}{y} \times \frac{135}{100}$$

$$\frac{x + 25}{10y} = \frac{27x}{20y}$$

$$\text{Or, } 270xy = 20xy + 500y$$

$$\text{Or, } 250xy = 500y$$

$$\text{Or, } x = 2$$

So, numerator of the original fraction = 2

42. **Answer: (A)**

Let the present ages of 'A', 'B' and 'C' be '3x' years, '4x' years and '5x' years, respectively.

ATQ;

$$5x - 3x = 12$$

$$\text{So, } x = 6$$

$$\text{So, present age of 'A' } = 3x = 6 \times 3 = 18 \text{ years}$$

$$\text{And present age of 'B' } = 4x = 6 \times 4 = 24 \text{ years}$$

ATQ;

$$(18 + m) \times 1.25 = (24 + m)$$

$$\text{Or, } 22.5 + 1.25m = 24 + m$$

$$\text{Or, } 1.5 = 0.25m$$

$$\text{So, } m = 6$$

Hence, option a.

43. **Answer: (D)**

$$\frac{1}{2} \times \frac{3}{4} \times \frac{5}{6} + \frac{7}{8} \times \frac{4}{7} \times \frac{5}{3} - \frac{7}{6} \div \frac{4}{5}$$

$$= \frac{2}{5} \times \frac{3}{7} \times \frac{7}{4} - \frac{3}{8} \times \frac{7}{5} - \frac{1}{2}$$

$$= \frac{5}{16} + \frac{5}{6} - \frac{35}{24}$$

$$= \frac{3}{10} - \frac{21}{40} - \frac{1}{2}$$

$$= \frac{15 + 40 - 70}{120 - 210 - 20}$$

$$= \frac{48}{40}$$

$$= \frac{15}{29}$$

$$= \frac{15}{48} \times \frac{40}{29} = \frac{25}{58}$$

44. **Answer: (D)**
Since diagonals intersect at 90° .
So, we know that,
 $AB^2 + CD^2 = BC^2 + AD^2$
 $5^2 + 3^2 = 4^2 + AD^2$
Or, $25 + 9 = 16 + AD^2$
Or, $34 - 16 = AD^2$
Or, $18 = AD^2$
So, $AD = \sqrt{18}$ cm

45. **Answer: (C)**
Let the original fraction be x/y .
ATQ,
 $\frac{x \times 1.65}{y \times 0.84} = \frac{11}{7}$
Or,
 $\frac{x}{y} = \frac{11 \times 0.84}{7 \times 1.65}$
So,
 $\frac{x}{y} = \frac{4}{5}$

46. **Answer: (B)**
Volume of the cylinder = $\pi R^2 h$ (where 'R' = radius of the cylinder and 'h' = height of the cylinder)
So, $6160 = \frac{22}{7} \times 14^2 \times h$
Or, $h' = \frac{6160}{616}$
So, 'h' = 10 cm
So, radius of the sphere = $10 \times 0.7 = 7$ cm
So, volume of the sphere = $\frac{4}{3}\pi r^3$ (where 'r' = radius of the sphere)
 $= \frac{4}{3} \times \frac{22}{7} \times 7 \times 7 \times 7$
 $= 1437.33$ cm³

47. **Answer: (C)**
Given, $(x + 1)^2 + (x + 2)^2 = 10$
 $x^2 + 2x + 1 + x^2 + 4x + 4 = 10$
 $2x^2 + 6x + 5 = 10$
 $2x^2 + 6x = 10 - 5$
 $2x^2 + 6x = 5$
On multiplying both side with 3, we have
 $6x^2 + 18x = 15$
Now,
 $6x^2 + 18x + 40 = 15 + 40 = 55$

48. **Answer: (D)**
 $\sin 50^\circ - \sin 40^\circ$
 $\frac{\cos 50^\circ - \cos 40^\circ}{\sin(90^\circ - 40^\circ) - \sin(90^\circ - 50^\circ)}$
 $= \frac{\cos 50^\circ - \cos 40^\circ}{\sin 50^\circ - \sin 40^\circ}$
Using $\sin(90^\circ - \theta) = \cos \theta$
 $= \frac{\cos 40^\circ - \cos 50^\circ}{\cos 50^\circ - \cos 40^\circ}$
 $= \frac{-1 \times (\cos 50^\circ - \cos 40^\circ)}{\cos 50^\circ - \cos 40^\circ}$
 $= -1$

49. **Answer: (D)**
 $A = \frac{45 \div 9 \times 5}{45 \div (3 \times 3)} = \frac{5 \times 5}{45 \div 9} = \frac{25}{5} = 5$
 $B = \frac{9 \div 27 \times 81 + 8 \times 2 - 3}{81 \div 9 \times 2 - 15 \times 3 + 40}$
 $= \frac{(\frac{1}{3}) \times 81 + 16 - 3}{9 \times 2 - 45 + 40} = \frac{27 + 13}{18 - 5} = \frac{40}{13}$
So, $A + B = 5 + \frac{40}{13} = \frac{65 + 40}{13} = \frac{105}{13}$

50. **Answer: (C)**
 $J_1 = (45 + 35 + 50 + 60 + 20) + (20 + 30 + 25 + 10 + 35) = 210 + 120 = 330$
 $J_2 = 210 - 120 = 90$
So, $J_1 - J_2 = 330 - 90 = 240$

General Awareness

51. **Answer: (A)**
Lingaraja Temple is a Hindu temple dedicated to Shiva and is one of the oldest temples in Bhubaneswar, the capital of the Indian state of **Odisha**, India.
· The temple represents the quintessence of Kalinga architecture and culminates the medieval stages of the architectural tradition at Bhubaneswar.
· The temple is believed to be built by the kings from the Somavamsi dynasty, with later additions from the Ganga rulers
52. **Answer: (A)**
Khangchendzonga National Park, also Kanchenjunga Biosphere Reserve, is a national park and a biosphere reserve located in **Sikkim**, India.
Simlipal is a tiger reserve in the Mayurbhanj district in the Indian state of **Odisha** covering 2,750 km².
Nokrek National Park, the core area of Nokrek Biosphere Reserve, is a national park located approximately 2 km away from Tura Peak in West Garo Hills district of **Meghalaya**, India.
Agasthyamalai Biosphere Reserve is also home to the Kani tribes from Kerala and Tamil Nadu.
53. **Answer: (C)**
Black soils are also known as Regur soil or Black cotton soil. These cover most part of the Deccan plateau. The soil is found in Maharashtra, Madhya Pradesh, Gujarat and Andhra Pradesh. These soils cover 16% of the total area of the country.
The black soil is generally deep and impermeable. These soils swell and become sticky when wet and shrink when dried. So, during the dry season, the soil develops wide cracks. Thus, there occurs a kind of self-plowing.
54. **Answer: (B)**
Tripitaka is the most important holy book of Buddhism.
· Sutta Pitaka - consists of sermons and teachings of Buddha,
· Vinaya Pitaka - the collection of the rules governing the Sangha and monks
· Abhidhamma Pitaka - which deals with the philosophy of Buddhism.
55. **Answer: (A)**
COBOL stands for Common Business Oriented Language.
It is first developed in 1960 by the CODASYL Committee (Conference on Data Systems Languages). It is primarily designed for use in business-oriented applications.
56. **Answer: (C)**
Second Five Year Plan (1956 - 1961):
The Second Five Year Plan revolved around the idea of developing the public sector and rapid industrialization. As many as five steel plants including the ones in Durgapur, Rourkela, and Bhilai were set up as per the 2nd five-year plan.
The Indian Government adopted a **mixed economy** during the second five-year plan. It was felt agriculture could be accorded lower priority. Industries got more importance in the 2nd five-year plan. The focus was mainly on heavy industries.
57. **Answer: (C)**
Archery is the national sport declared by the Kingdom in 1971 when it became a member of the

UN. Throughout the history of Bhutan, **bows and arrows** were an important means of survival in the highlands during wars and hunts and they also play a significant role in their myths and legends.

There is no official game of India.

Football is the official game of Israel.

58. **Answer: (C)**

Mahi Sugandha has longer grained and is non-sticky and elongated after cooking. It is a variety of **Basmati Rice**. Other varieties of rice are - Akashi, Ambika, Abha (R-155-355), Ajay (CRHR-7), Deepti, Divya Gajpati (IET-13251), Garima Geetanjali (CRM-2007-1).

59. **Answer: (B)**

The correct sequence of the above events is:

The Partition of Bengal - 1905

The Lucknow Pact - 1916

The Rowlatt Act - 1919

The Introduction on Dyarchy -1919

60. **Answer: (B)**

Sound speed varies in different mediums.

- Sound propagates very slowly in gas.
- **Sound propagates faster than gas in a liquid.**
- Sound speed is the fastest in solids.
- Sound does not propagate in a vacuum.

61. **Answer: (A)**

Article 323 of the Constitution of India:

It shall be the duty of the Union Public Service Commission to give a report to the **President** about the Commission's work every year.

62. **Answer: (B)**

Pt. Ravi Shankar was an Indian musician and composer who played the sitar. He is one of the best - known exponents of the sitar in the world and is credited with popularizing Indian classical music in the West. He was awarded several awards throughout his lifetime, including the Bharat Ratna, India's highest civilian award, in 1999.

63. **Answer: (C)**

Arunachal Pradesh has achieved a significant milestone, becoming the first state in North-East India and the 10th in the country to attain 100% saturation of Har Ghar Jal under the Jal Jeevan Mission. Chief Minister Pema Khandu credited Team Arunachal's dedication, expressing gratitude to Prime Minister Narendra Modi for guidance and support. The mission, launched on August 15, 2019, aims to provide assured tap water supply to every rural household in India by 2024, promoting an improved quality of life.

64. **Answer: (A)**

Indian and Sri Lankan coast guard ships recently joined the Maldives for Exercise Dosti 16, a trilateral coast guard exercise held every two years since 1991. Sri Lanka joined in 2012, and the 16th edition involves the Coast Guards of India, Sri Lanka, and the Maldives, with observers from Bangladesh. The exercise focuses on mutual operational capability, interoperability, and cooperation in scenarios like sea accidents and pollution. India's participation includes ICGS Samarth, ICGS Abhinav, and ICG Dornier.

65. **Answer: (B)**

The Ministry of Information and Broadcasting recently launched four portals, including NaViGate Bharat, a bilingual platform by the New Media Wing. NaViGate Bharat serves as a unified gateway hosting government-related videos, simplifying access to

developmental measures and citizen welfare initiatives. The platform empowers users with an interactive interface for searching, streaming, sharing, and downloading content, streamlining information retrieval from various sources into a single, reliable platform for both media and the public.

66. **Answer: (B)**

The pink-headed duck is a large diving duck that was once found in parts of the Gangetic plains of India, parts of Maharashtra, Bangladesh and in the riverine swamps of Myanmar but feared extinct since the 1950s. Numerous searches have failed to provide any proof of continued existence. **Pink-headed ducks** were usually found in enclosed waters surrounded by dense vegetation. Officially, the **pink-headed duck is listed as critically endangered**.

Pink-headed **Duck Rhodonessa caryophyllacea**.

67. **Answer: (B)**

Total degree in one rotation of Earth = 360°

The time required for the earth to complete one rotation or $360^{\circ} = 24$ hours

24 hours = 360°

1 hour = $(360^{\circ})/24$

2 hours = 30°

68. **Answer: (C)**

The energy stored in a spring of a watch is **potential energy** which is a result of winding energy. it is defined as. $E=21kx^2$. where k is the spring constant and x is the extension/compression in spring.

This energy is used to run the watch as it converts this potential energy to rotational kinetic energy.

Energy stored in spring is **potential energy**.

69. **Answer: (C)**

The All-India Muslim League met in **Lahore** in **March 1940** and adopted a re**Answer** that came to be known as the Lahore Re**Answer** or Pakistan Re**Answer**. Muhammad Ali Jinnah announced his demand to create Pakistan as a separate Muslim state.

70. **Answer: (D)**

Windows 98 was developed in **1998**.

Features of Windows 98 are:

- It supports Internet Explorer 4.0.1.
- Windows 98 was the **first** operating system to use the **Windows Driver Model (WDM)**.
- It includes a FAT32 converter utility for converting FAT16 drives to FAT32 without formatting the partition.
- It also supports many peripheral devices (USB, DVD etc.).

71. **Answer: (C)**

Thalassemia is a genetic **blood** disorder. In a patient with Thalassemia, the body is unable to synthesize enough hemoglobin, which causes severe anemia.

72. **Answer: (A)**

The Panchayat system covers the village level (**Gram Panchayat**), clusters of villages (block Panchayat) and the district level (District Panchayat).

Panchayati Raj is a system of governance in which Gram Panchayat is the basic unit or lowest unit of administration.

It is a local body working for the welfare of the village.

73. **Answer: (C)**

The peninsular drainage into the Bay of Bengal includes a number of major rivers, most notably the Mahanadi, **Godavari**, Krishna, and Kaveri.

74. **Answer: (A)**
A **Nostro account** refers to an account that a bank holds in a foreign currency in another bank. Nostros, a term derived from the Latin word for "ours," is frequently used to facilitate foreign exchange and trade transactions.

75. **Answer: (B)**
Raziyya, also known as Razia Sultana, was removed from the throne of the Delhi Sultanate in the year **1240**.
The Delhi Sultanate was an Islamic empire based in Delhi that stretched over large parts of the Indian subcontinent during the period of Medieval India for 320 years (1206 - 1526).

English Language

76. **Answer: (B)**
FABULOUS means wonderful or splendid. **ORDINARY** (usual) will be its antonym. Thus, B is the right answer.

77. **Answer: (B)**
The word **RATIFY** means to make an agreement officially valid. The word **REVOKE** means to officially cancel an agreement or law and is the most appropriate antonym of the given word. Thus, B is the right answer.

ENDORSE - publicly support someone or something.
AMEND - to make changes.
RUIN - to spoil or destroy something.

78. **Answer: (A)**
The correct spelling of the word is **BELLIGERENT** (willing to fight; aggressive). Thus, A is the right answer.

79. **Answer: (B)**
The correctly spelled word is **PUNCTUATION** (the use of symbols in sentences). Thus, B is the right answer.
The correct spellings of the other words are:
BRITTLE - easily broken, **NOTICEABLE** - easily seen, **ALTITUDE** - height.

80. **Answer: (A)**
CONCORD means a close and harmonious relationship between people. **HARMONY** is its synonym. Thus, A is the right answer.
Fright - scare; fear. **Joy** - great happiness. **Conclusion** - deduction.

81. **Answer: (B)**
HUSHED means quiet or noiseless. **SILENT** will be its synonym. Thus, B is the right answer.
Sceptical - disbelieving. **Original** - first; genuine. **Primary** - most important.

82. **Answer: (A)**
The idiom **ONCE IN A BLUE MOON** means occurring very rarely. Thus, A is the right answer.
None of the other options correctly conveys the meaning of the idiom.

83. **Answer: (C)**
The idiom **LIGHT A FIRE UNDER SOMEONE** means to inspire someone to work hard. Thus, C is the right answer.

84. **Answer: (C)**
In C, the singular noun **SERVICE** should be replaced with its plural form **SERVICES**, as the adjective **VARIOUS** (more than one) modifies a plural noun. Thus, C is the right answer.

85. **Answer: (D)**
In D, **AS WELL AS** should be replaced with **AND**, as **BOTH** is always paired with **AND** when mentioning two people or things. Thus, D is the right answer.

86. **Answer: (C)**
We need a plural verb to agree with the plural subject **FORM AND STRENGTH**. **DEPEND** (rely) will fit here as the sentence talks about how the form and strength of people's relationships rely on the country and culture to which they belong. Thus, C is the right answer.
Submerge - immerse. **Relay** - convey. **Allure** - attract; tempt.

87. **Answer: (A)**
We need a base for verb to fit in the **TO + VERB** infinitive construction. **PROMOTE** (encourage) will fit here as the sentence talks about policies that encourage emotional well-being. Thus, A is the right answer.
Command - order. **Nuisance** - annoyance. **Win** - to be victorious.

88. **Answer: (B)**
We need an adjective to modify the noun **ACTIVITIES**. **LEISURE** (done for relaxation or amusement) will fit here as the sentence tells us how the access to fun activities should be facilitated. Thus, B is the right answer.
Painful - causing pain or suffering. **Concern** - worry. **Remote** - far away; distant.

89. **Answer: (B)**
We need a noun to be modified by the adjective **INTERESTING**. **TACTIC** (strategy) will fit here as the sentence talks about a method to ensure social relations. Thus, B is the right answer.
Power - strength; influence. **Role** - part. **Scene** - sight.

90. **Answer: (B)**
We need a base form verb to fit in the **TO + VERB** infinitive construction. **AVOID** (evade) will fit here contextually as the sentence tells us of ways to not feel loneliness, making B the right answer.
Induce - urge. **Raise** - elevate. **Revere** - respect.

91. **Answer: (A)**
Something that is certain to happen is called **INEVITABLE**. Thus, A is the right answer.
Invincible - one who cannot be defeated. **Palatable** - pleasant to taste. **Ubiquitous** - found or occurring everywhere.

92. **Answer: (D)**
WALKED OFF (to leave) will fit here contextually as the sentence tells us how he left before the speaker got a chance to tell him something. Thus, D is the right answer.
Walked up - to walk and go to a specific place or spot. **Walked over** - treated someone in an inconsiderate or exploitative manner. **Walked on** - to walk on a surface.

93. **Answer: (D)**
The sentence is in active voice and in present perfect tense (**HAS ORDERED**). Follow the rules below to convert a sentence in indicative mood to passive voice:

I. The subject clause will become the object clause. Here, the subject **THE MASTER** will change to the object of the verb, and the object **THE SERVANTS** will change into the subject and begin the sentence.
II. Replace **HAS ORDERED** with **HAVE BEEN ORDERED**. The passive voice construction for

present perfect tense is "HAVE + BEEN + past participle".

III. Add the conjunction BY before THE MASTER to link the verb with its object.

Option D is the right answer.

94. **Answer: (A)**

Option A is the right answer.

The sentence is in direct speech and in an interrogative mood. To convert this sentence to the indirect

speech, follow these rules:

I. Remove the question mark and the inverted commas.

II. Replace the reporting verb SAID TO with ASKED. The preposition TO is redundant after ASKED, so it is to be removed. Begin the indirect speech sentence with the reporting speech clause I ASKED THE CHEF.

III. The simple present tense DO YOU KNOW will change to the simple past tense KNEW.

IV. The second person subjective pronoun YOU will change to the third person subjective pronoun HE.

V. Introduce the conditional IF before the question part of the sentence.

VI. The syntax of a sentence in indicative mood will be used: I ASKED THE CHEF + IF + subject (HE) + verb clause KNEW + object of verb THEIR SECRET INGREDIENT.

95. **Answer: (B)**

IMPERVIOUS means not affected or influenced by something. Thus, B is the right answer.

IMPROBABLE - not likely to happen.

INANIMATE - lifeless.

INCONGRUOUS - out of place.

96. **Answer: (C)**

SPRQ is the correct order of the sentences. S begins the paragraph by telling us that the narrator thought about the route to take back home. PR is a mandatory pair. P follows S because it continues to talk about the narrator's thoughts and tells us that if

the narrator were enthusiastic about travelling, he would take a bus or a train. R follows P and presents a contrast by telling us that the narrator was instead very tired and homesick. Q follows R and concludes the paragraph by telling us that, due to tiredness and homesickness, the narrator purchased a ticket for the next day's flight. Thus, C is the right answer.

97. **Answer: (B)**

DRAW UP (prepare a plan or document) will fit here contextually as the sentence tells us how preparing a formal contract will make it official. Thus, B is the right answer.

Draw out - prolong. Draw back - recoil. Draw in - attract; lure.

98. **Answer: (A)**

PRQ is the correct sequence of the parts of the sentences. The given part establishes the subject of the sentence - Robert. P follows by telling us how he kept working on the issue. R proceeds by telling us with whom he worked - with technical and popular publications. Q concludes by telling us the time - through the rest of the 1950s. Thus, A is the right answer.

99. **Answer: (C)**

We need an adjective to modify the noun NOMINATIONS. SECRET (something that is not known to most people) will fit here contextually as the sentence talks about how the nominations are not disclosed to anyone for 50 years. Thus, C is the right answer.

Fault - mistake. Crevice - crack. Spoilage - the act of ruining.

100. **Answer: (D)**

We need an adjective to modify the noun SYMPTOMS. SEVERE (intense) will fit here as the sentence talks about how infants will be brought to medical attention only if they show extreme symptoms. Thus, D is the right answer.

Bold - reckless; rash. Cunning - sly. Rich - wealthy.