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SSC CHSL Pre

Solution

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General Intelligence and Reasoning

1. **Solution: A**
Given: K _ R _ A K U _ D _ K U _ _ A _ U _ D A
The logic followed here is as follows:
K U R D A / K U R D A / K U R D A / K U R D A
So, 'U, D, R, A, R, D, K, R' will complete the given series.
The complete series is as follows:
K U R D A K U R D A K U R D A K U R D A
2. **Solution: B**
The arrangement in English dictionary order is as follows,
3- hacksaw, 2- hacktivist, 5- hackwork, 1- haddock, 4- happen
So, '3, 2, 5, 1, 4' is the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
3. **Solution: B**
Young one of Horse, a mammal, is called as Foal
All the given options have animal, with their young one, but, only Whale among the given option is mammal.
4. **Solution: C**
Option (a): $208 - 129 = 79$
Option (b): $185 - 106 = 79$
Option (c): $311 - 213 = 98$
Option (d): $247 - 168 = 79$
5. **Solution: C**
 $14, 14 \times 3 = 42, 14 + 15 = 29$
 $26, 26 \times 3 = 78, 26 + 27 = 53$
Option (a): $18, 18 \times 3 = 54, 18 + 17 = 35$ not correct it should be $18 + 19 = 37$
Option (b): $36, 36 \times 4 = 144$ not correct it should be $36 \times 3 = 108$
Option (c): $24, 24 \times 3 = 72, 24 + 25 = 49$ it is correct.
Option (d): $42, 42 \times 3 = 126, 42 - 6 = 36$ not correct it should be $42 + 43 = 85$
6. **Solution: A**
The unfolded paper will look like option figure (I).



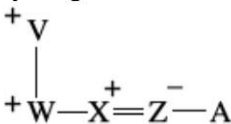
7. **Solution: C**
Clues:
1) N scored more than at least 5 people.
2) O scored less than only three players.
3) T scored more than S. S does not score the least number of goals.
4) T scored less than O.
Inferences:
From clue 1, either N scored the highest number of goals or N scored the second highest number of goals.
From clue 2, O scored the fourth highest number of goals.
From clue 3 and clue 4, T and S scored the third lowest and the second lowest number of goals.
Case 1: N scored the highest number of goals
 $N > _ > _ > O > T > S > _$
Case 2: N scored the second highest number of goals
 $_ > N > _ > O > T > S > _$
Clues:

- 1) P scored more goals than Q, who scored more goals than R.
2) P does not score the highest number of goals.

Inferences:
From clue 1, in case 2 P scores the highest number of goals, which violates clue 'S2'. So, this can be rejected.
From clue 1, in case 1, P, Q and R score the 2nd highest, 3rd highest and the lowest number of goals.
The final arrangement is as follows:
 $N > P > Q > O > T > S > R$
So, four players scored fewer goals than P but more than R.

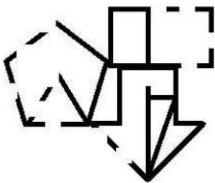
8. **Solution: C**
Logic: Number of letters in 1st word $\times$ Number of letters in 2nd word = code
'FAMILY * LONG' = $6 \times 4 = '24'$
'COUPLE * THE' = $6 \times 3 = '18'$
Similarly;
'OVER * HOSPITAL' = $4 \times 8 = '32'$
9. **Solution: B**
Electric current is measured in Amperes, and Thermodynamic Temperature is measured in Kelvin.
10. **Solution: B**
The logic followed here is as follows,
 $50 + 12 = 62$
 $62 + 16 = 78$
 $78 + 20 = 98$
 $98 + 24 = 122$
 $122 + 28 = 150$
 $150 + 32 = 182$
 $182 + 36 = 218$
 $218 + 40 = 258$
So, the number that will replace the question mark in the given series is **182**.
The complete series is as follows:
50, 62, 78, 98, 122, 150, **182**, 218, 258

11. **Solution: A**
By image tree:



V is the father in law of Z.

12. **Solution: B**
The pattern in the series is as follows:
 $D + 4 = H, M + 8 = U, Q + 9 = Z$
 $H + 4 = L, U + 8 = C, Z + 9 = I$
 $L + 4 = P, C + 8 = K, I + 9 = R$
So, the next term should be:
 $P + 4 = T, K + 8 = S, R + 9 = A$
13. **Solution: C**
The embedded figure is as shown below:



14. **Solution: D**
Given:

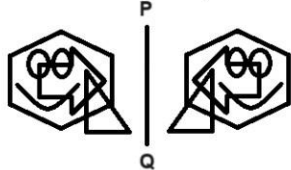
1	2	3	4	5	6	7	8	9	10
C	H	A	R	A	C	T	E	R	S

From option [a], we get,
ARCHERS is a meaningful word.
From option [b], we get,
CRASHER is a meaningful word.
From option [c], we get,
SCRATCH is a meaningful word.
From option [d], we get,
CARSHER is not a meaningful word.
'6 5 9 10 2 8 4' is the combination of the numbers for the word, which is not meaningful word.

15. **Solution: D**
3 ---- $(3)^3 = 27$
7 ---- $(7)^3 = 343$
Similarly,
5 ---- $(5)^3 = 125$

16. **Solution: A**
Given equation: $18 - 4 \div \{(32 \times 120 + 6) - 5\} \div 50$
After substituting the signs in the given equation, we get:
 $= 18 \times 4 - \{(32 + 120 \div 6) \times 5\} - 50$
 $= 18 \times 4 - \{(32 + 20) \times 5\} - 50$
 $= 18 \times 4 - \{52 \times 5\} - 50$
 $= 72 - 260 - 50$
 $= 72 - 310$
 $= -238$
Therefore, '-238' will come in place of the question mark.

17. **Solution: C**
The correct mirror image of the given combination when the mirror is placed at 'PQ', we get:



18. **Solution: B**
-

Both conclusions I and III follows.

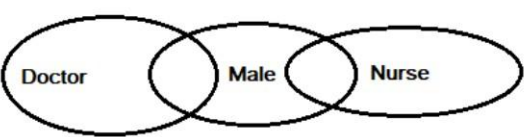
19. **Solution: C**
We need to find the correct interchange of numbers to make the equation correct. Testing each option:
a. $5 + 6 \div 18 - 16 \times 1 = -5$ (incorrect)
b. $16 + 6 \div 14 - 5 \times 1 = 11$ (incorrect)
c. $16 + 18 \div 6 - 5 \times 1 = 14$ (correct)
d. $16 + 6 \div 18 - 14 \times 1 = 2$ (incorrect)

20. **Solution: A**
- I S L A N D
-1 +1 -1 +1 -1 +1
- H T K B M E
And,
T A B L E T
-1 +1 -1 +1 -1 +1
- S B A M D U
Similarly;

B A N G L E
-1 +1 -1 +1 -1 +1

A B M H K F

21. **Solution: B**
There can be male doctor or male nurse, so, we have the following Venn diagram:



22. **Solution: A**
In 1st and 2nd figure, common word is 'Cart'. Words in clockwise direction in-
Figure 1- Cart, Flag and Blue
Figure 2- Cart, Herb and Soil
So, from both the figures, we get 'Herb' is opposite to 'Flag' and 'Soil' is opposite to 'Blue'. So, 'Plan' is opposite to 'Cart'.

23. **Solution: B**
 $F + 7 = M$
 $W + 6 = C$
 $Q + 7 = X$
 $P + 7 = W$

24. **Solution: B**
We need to interchange '+' and '-' signs in the given equations and check which one doesn't hold true.
I. $27 + 3 - 18 \times 3 \div 9 = 24$
Or, $30 - 18 \times (3 \div 9) = 24$
Or, $30 - 18 \times (1/3) = 24$
Or, $30 - 6 = 24$
Or, $24 = 24$ (Correct)
II. $12 + 8 \times 12 \div 16 - 7 = 19$
Or, $12 + (8 \times 12) \div 16 - 7 = 19$
Or, $12 + 96 \div 16 - 7 = 19$
Or, $12 + 6 - 7 = 19$
Or, $18 - 7 = 19$
Or, $11 \neq 19$ (Incorrect)

25. **Solution: C**
1st to 2nd image: The dark part is moving forward leaving one place blank.
2nd to 3rd image: The dark part is moving forward leaving two place blank.
3rd to 4th image: The dark part is moving forward leaving three place blank.
4th to 5th image: The dark part is moving forward leaving four place blank.



Quantitative Aptitude

26. **Solution: D**
Let the two diagonals of the rhombus be '3x' cm and '2x' cm, respectively.
Area of rhombus = $(1/2) \times d_1 \times d_2$ {where 'd₁' and 'd₂' are the length of the diagonals}
 $1,728 = (1/2) \times 3x \times 2x$
Or, $x^2 = 576$
So, $x = 24$ {Since, length of diagonal cannot be negative}
So, diameter of the circle = $2 \times 24 = 48$ cm
So, area of circle = $3 \times (48/2)^2 = 1,728$ cm²

So, required difference = $1,728 - 0.75 \times 1,728$
 $= 432 \text{ cm}^2$

27. **Solution: D**

$$\sin 3A \sec 6A = 1$$

$$\text{Or, } \sin 3A = (1/\sec 6A)$$

We know that, $\sec P$ is the reciprocal of $\cos P$

$$\text{Or, } \sin 3A = \cos 6A$$

We know that, $\cos P = \sin (90 - P)$

$$\text{Or, } \sin 3A = \sin (90 - 6A)$$

$$\text{Or, } 3A = 90 - 6A$$

$$\text{Or, } 9A = 90$$

$$\text{So, } 'A' = 10$$

$$\text{Required value} = \cos 6A = \cos 60^\circ = (1/2)$$

28. **Solution: D**

Let the quantity of three variety of rice in the new mixture be '2x' kg, 'x' kg, and 'x' kg respectively

Let the price of the third variety of rice be ₹'y'/kg

ATQ:

$$(35 \times 2x) + (48 \times x) + (y \times x) = 40 \times (2x + x + x)$$

$$\text{Or, } 70x + 48x + xy = 40 \times 4x$$

$$\text{Or, } 118x + xy = 160x$$

$$\text{Or, } xy = 42x$$

$$\text{Or, } y = 42$$

So, the price of the third variety of rice = ₹42/kg

29. **Solution: C**

$$\text{Required angle} = [(14 + 21) \div 100] \times 360 = 126^\circ$$

30. **Solution: A**

$$\text{Side of the square} = \sqrt{1156} = 34 \text{ cm}$$

$$\text{Length of the rectangle} = 2 \times 34 = 68 \text{ cm}$$

$$\text{Breadth of the rectangle} = 34 - 14 = 20 \text{ cm}$$

Therefore, the ratio of length to breadth of the rectangle = $68:20 = 17:5$

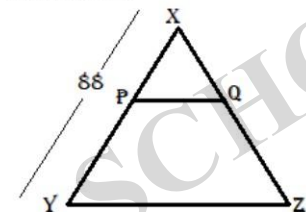
31. **Solution: D**

$$\frac{x^3 - y^3}{x^2 - y^2} - \frac{3xy}{x + y} = \frac{7^3 - 2^3}{7^2 - 2^2} - \frac{3 \times 7 \times 2}{7 + 2}$$

$$= \frac{343 - 8}{49 - 4} - \frac{42}{9} = \frac{335}{45} - \frac{42}{9} = \frac{335 - 210}{45}$$

$$= \frac{125}{45} = \frac{25}{9}$$

32. **Solution: C**



From $\triangle XYZ$ and $\triangle XPQ$,

$\angle XYZ = \angle XPQ$ (corresponding angle)

$\angle XZY = \angle XQP$ (corresponding angle)

$\angle YXZ = \angle PXQ$ (Same angle)

So, $\triangle XYZ \sim \triangle XPQ$

So, $XP/XY = PQ/YZ$

$$XP/88 = 3/8$$

$$XP = 3/8 \times 88 = 33 \text{ cm}$$

33. **Solution: B**

Since the numbers are consecutive odd integers, their average is the middle number, which is 27.

If we add an odd number on both sides, middle (Average) number will be same.

$$\text{So, average} = 27$$

34. **Solution: C**

We are given that when the book is sold at $8/15$ of the marked price, there is a 20% loss.

$$\text{So, } (8/15) \times MP = 0.8 \times CP$$

$$(MP/CP) = (15/8) \times 0.8 = 3/2$$

$$MP:CP = 3:2$$

35.

Solution: A

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

ATQ:

$$\text{We have, } 45M = 60W$$

$$\text{Or, } (M/W) = (4/3)$$

$$\text{Let 'M' = 4e and 'W' = 3e}$$

$$\text{Required ratio} = (6 \times 4e) : (9 \times 3e) = 8:9$$

36.

Solution: C

$$x^2 - xy + y^2 = 12 \text{ ----- (I)}$$

$$\text{Using, } (x^4 + x^2y^2 + y^4) = (x^2 - xy + y^2)(x^2 + xy + y^2)$$

$$216 = 12 \times (x^2 + xy + y^2)$$

$$\text{Or, } x^2 + xy + y^2 = 18 \text{ ----- (II)}$$

On subtracting equation (II) from (I),

$$\text{We get, } x^2 - xy + y^2 - (x^2 + xy + y^2) = 12 - 18$$

$$\text{Or, } x^2 - xy + y^2 - x^2 - xy - y^2 = -6$$

$$\text{Or, } 2xy = 6$$

$$\text{Or, } xy = 3$$

$$\text{Required value} = 3 \times 3 = 9$$

37.

Solution: A

$$\text{Required ratio} = (680 + 600 + 720) : (640 + 720 + 560)$$

$$= 2000:1920 = 25:24$$

38.

Solution: A

$$\left(4 - \frac{11}{14}\right) \times 7 \frac{11}{15}$$

$$= \left(\frac{56-11}{14}\right) \times \frac{116}{15}$$

$$= \frac{45}{14} \times \frac{116}{15}$$

$$= \frac{174}{7}$$

39.

Solution: C

As we know least number which is divisible by 'a', 'b', and 'c' is LCM of 'a', 'b', and 'c'

So, the number which is completely divisible by 14, 18, and 36 = LCM of 14, 18, and 36 = 252

$$\text{So, 'x' = } 252 + 1 = 253$$

Now,

$$(2x + 3) = (253 \times 2) + 3 = 506 + 3 = 509$$

40.

Solution: D

Let the initial weights of Ayush and Abhishek be $8x$ and $5x$, respectively.

After increases,

$$\text{Abhishek's weight} = 140\% \text{ of } 5x = 7x$$

$$\text{Total weight} = 160\% \text{ of } 13x = 20.8x$$

$$\text{Given that total weight becomes } 104 \text{ kg.}$$

$$\text{So, } 20.8x = 104$$

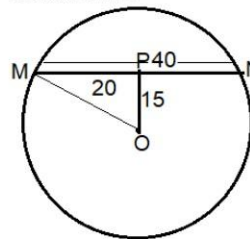
$$x = 5$$

$$\text{Abhishek's new weight} = 7x = 7 \times 5 = 35 \text{ kg}$$

$$\text{Ayush's new weight} = 104 - 35 = 69 \text{ kg}$$

41.

Solution: D



$$MN = 40$$

$$\text{So, } MP = 20$$

$$OP = 15 \text{ (given)}$$

Now, in triangle MOP,

$$MO \text{ (Radius)} = \sqrt{MP^2 + OP^2} = \sqrt{20^2 + 15^2}$$

$$= \sqrt{400 + 225} = \sqrt{625} = 25 \text{ cm}$$

42.

Solution: C

For the app,

$$A = P(1 + r/100)^n$$

$$= 10000(1 + 15/100)^2$$

$$= 10000 \times 115/100 \times 115/100$$

$$= ₹13,225$$

$$CI = A - P = ₹13,225 - ₹10,000 = ₹3,225$$

For the bank,

$$I = P \times r \times t/100 = 10000 \times 15 \times 2/100$$

$$= ₹3,000$$

Therefore, the difference

$$= ₹3,225 - ₹3,000 = ₹225$$

43. **Solution: C**

$$\text{Required percentage} = [(33,000 - 19,200) \div 19,200] \times 100 \sim 72\%$$

44. **Solution: D**

$$\text{Volume of a hemisphere} = (2/3) \times \pi \times \text{radius}^3$$

$$= (2/3) \times 3.14 \times 9^3 = 1,526.04 \text{ cm}^3$$

45. **Solution: D**

$$\frac{\frac{1}{4} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}}{\frac{1}{4} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}} = \frac{\frac{1}{4} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}}{\frac{1}{4} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}} = \frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$$

$$= \frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$$

$$= \frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$$

46. **Solution: C**

We can use the formula for the length of a chord in a circle, which is given by:

$$\text{Length of chord AB} = 2 \times \text{radius} \times \sin(\text{angle}/2)$$

$$\text{Length of chord AB} = 2 \times 18 \text{ cm} \times \sin(60/2)$$

$$= 2 \times 18 \text{ cm} \times \sin(30^\circ)$$

$$= 36 \text{ cm} \times 1/2$$

$$= 18 \text{ cm}$$

Therefore, the length of chord AB is 18 cm.

47. **Solution: B**

Let's assume the speed of the boat in still water is x km/h.

$$\text{Then, speed downstream} = (x + 3) \text{ km/h}$$

$$\text{And, speed upstream} = (x - 3) \text{ km/h}$$

$$\text{Given, speed downstream} = 25 \text{ km/h}$$

$$\text{So, } x + 3 = 25$$

$$x = 22 \text{ km/h}$$

$$\text{Speed upstream} = (22 - 3) \text{ km/h} = 19 \text{ km/h}$$

$$\text{Time taken to cover 100 km downstream}$$

$$= \text{distance} / \text{speed} = 100 / 25 = 4 \text{ hours}$$

$$\text{Time taken to cover 57 km upstream}$$

$$= \text{distance} / \text{speed} = 57 / 19 = 3 \text{ hours}$$

$$\text{Total time taken} = 4 + 3 = 7 \text{ hours}$$

48. **Solution: C**

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

ATQ;

$$(5x + 15) \times 0.86 = (4x + 15)$$

$$\text{Or, } 4.3x + 12.9 = 4x + 15$$

$$\text{Or, } 0.3x = 2.1$$

$$\text{So, } x = 7$$

$$\text{So, present age of 'A'} = 5 \times 7 = 35 \text{ years}$$

$$\text{And present age of 'B'} = 4 \times 7 = 28 \text{ years}$$

$$\text{So, required ratio} = (35 + 7):(28 + 7) = 42:35 = 6:5$$

49. **Solution: B**

$$P: Q = 2: 3 = 8: 12$$

$$Q: R = 4: 5 = 12: 15$$

$$\text{So, } P: Q: R = 8: 12: 15 = 16: 24: 30$$

$$\text{And, } R: S = 2: 1 = 30: 15$$

$$\text{So, } P: Q: R: S = 16: 24: 30: 15$$

$$\text{So, } P: R: S = 16: 30: 15$$

50. **Solution: B**

$$\text{Since } a^3 + b^3 = (a + b)(a^2 - ab + b^2)$$

$$\text{We have, } \sin^3\theta + \cos^3\theta = (\sin\theta + \cos\theta)(\sin^2\theta - \sin\theta\cos\theta + \cos^2\theta)$$

$$\text{So, required value} = \sin^2\theta - \sin\theta\cos\theta + \cos^2\theta = 1 - \sin\theta\cos\theta$$

General Awareness

51. **Solution: B**

The **Hijri era**, introduced under **Caliph Umar's** leadership, started in 622 CE. It is a lunar calendar with 354 days and 12 months (Muharram through Dhul Hijja), each month having 29 or 30 days. Each day in this calendar begins at sunset, and a new month starts when the crescent moon is first sighted. This makes the Hijri year about 11 days shorter than the solar year.

Hence, Option B is the correct answer.

52. **Solution: B**

Epsom salt, or magnesium sulfate heptahydrate, is a hydrous magnesium sulfate mineral with formula **MgSO₄·7H₂O**.

- Epsomite crystallizes in the orthorhombic system as rarely found acicular or fibrous crystals; the normal form is as massive encrustations.

- It is readily soluble in water.

- It absorbs water from the air and converts to hexahydrate with the loss of one water molecule and a switch to monoclinic structure.

Hence, Option B is the correct answer.

53. **Solution: A**

GNP includes net foreign income. GNP adds net foreign investment income compared to GDP.

GDP refers to the final monetary value of goods and services in a country (domestic territory). It does **not add the net foreign investment income** as it focuses on where the output is produced rather than who produced it. GDP measures all domestic production, disregarding the producing entities nationalities.

While GNP is a measure of the value of the output produced by the "nationals" of a country- both within the geographical boundaries and outside. That is all the output that the Indian citizens produce in a given year - both within India and all other countries.

Hence, option A is the correct answer.

54. **Solution: A**

The Shamlaji Melo, also called the Kartik Purnima fair is an annual festival held in Gujarat in the month of November and lasts for about two weeks. The Shamlaji Temple is a renowned Vaishnav Shrine and the deity housed here is known by various names included Gadadhar (bearer of the mace) and Shaksi Gopal. The temple is of great archaeological significance as it was built in the 11th century.

Devotees belonging to various castes and communities including the Garasias and Bhils throng this festival.

55. **Solution: A**

Abscisic acid (ABA) is a growth inhibitor, which was discovered in the 1960s. It is the only hormone known to induce and maintain seed dormancy.

Other functions of Absciscic acid are:

- Stimulates closing of stomata in the epidermis.

- Helps in the maturation and development of seeds.

- Inhibits plant metabolism and seed germination.

- It is involved in regulating abscission and dormancy.
- It is widely used as a spraying agent on trees to regulate dropping of fruits.
- Induces seed-dormancy and aids in withstanding desiccation and various undesired growth factors.

Gibberellins	They delay senescence in fruits and are involved in leaf expansion. They break bud and seed dormancy.
Cytokinin	They help in the production of new leaves, lateral shoot growth, chloroplasts in leaves etc. They help in overcoming apical dominance and delay ageing of leaves.
Ethylene	Ethylene is used as both plant growth promoters and plant growth inhibitors. Ethylene is synthesized by the ripening fruits and ageing tissues.

56. **Solution: B**

Mission Indradhanush is a strategic initiative launched in **December 2014** by the Indian government. It aims to increase full immunization coverage for children across the country to reach 90% coverage.

The mission specifically focuses on areas with low immunization rates, including hard-to-reach regions and communities where children are either unvaccinated or partially vaccinated.

This mission adopts a targeted approach, prioritizing districts and pockets where immunization levels remain low, thereby striving to bridge critical gaps in vaccine coverage and ensuring that no child is left unprotected.

Since its inception, twelve phases of Mission Indradhanush have been completed, covering 554 districts nationwide.

Hence, Option B is the correct answer.

57. **Solution: D**

Veeraswami Ramaswami is an Indian retired judge of the Supreme Court of India and the first judge against whom removal proceedings were initiated in independent India. In 1993, the motion was brought up in Lok Sabha but failed to secure the required two-thirds majority.

Hence, Option D is the correct answer.

58. **Solution: A**

Coking coal is high-grade **bituminous coal** with a quality that allows the production of metallurgical coal. The process of converting coking coal into coke is known as carbonization or coking. During this process, coking coal is heated to high temperatures in the absence of oxygen. This heating drives off volatile substances, leaving behind a solid carbon-rich residue known as coke.

Hence, Option A is the correct answer.

59. **Solution: B**

India launched its **first-ever driverless metro service** in **2020**. It was launched on the Magenta Line of the Delhi Metro. These metro trains are equipped with hi-tech cameras and obstruction-sensing devices to ensure the safety of passengers. These trains can run at an average speed, which is a few notches higher than that of a regular driver-driven one.

Hence, Option B is the correct answer.

60. **Solution: B**

Cyanocobalamin is a form of **vitamin B₁₂** used to treat and prevent vitamin B₁₂ deficiency except in the presence of cyanide toxicity.

· The deficiency may occur in pernicious anaemia, following surgical removal of the stomach, with fish tapeworm, or due to bowel cancer.

· It is used by mouth, by injection into a muscle, or as a nasal spray.

Hence, Option B is the correct answer.

61. **Solution: D**

The Protection of Children from Sexual Offences Act (POCSO Act) was passed in India in 2012. It was enacted on June 19, 2012 and came into force on November 14, 2012. The act protects children from sexual assault, sexual harassment, and pornography. It defines different forms of sexual abuse, including penetrative and non-penetrative assault.

Hence, option D is the correct answer.

62. **Solution: B**

Meghalaya does not share the international boundary with Myanmar.

Myanmar shares the international boundaries with Arunachal Pradesh, Nagaland, Manipur, and Mizoram states of India. Myanmar is also called as the land of Golden Pagoda.

Hence, option B is the correct answer.

63. **Solution: B**

Mandamus: It literally means 'we command'. It is a command issued by the court to a public official asking him to perform his official duties that he has failed or refused to perform. It can also be issued against any public body, a corporation, an inferior court, a tribunal or government for the same purpose.

Further insights:

Habeas Corpus: "Produce the body" - a legal order demanding that a detained person be brought before a court to determine the legality of their imprisonment.

Certiorari: "To be more fully informed" - a court order directing a lower court to deliver its record in a case so that a higher court can review it.

Quo Warranto: "By what warrant" - a legal action challenging the right of a person to hold public office.

64. **Solution: C**

Coastal landforms are formed by erosion or deposition through sea waves, aided by currents tides and storms in coastal areas.

· **Erosional Landforms**: **Cliffs**, terraces, caves, stacks etc. are important landforms made by oceanic waves.

· **Depositional Landforms**: **Beaches**, **dunes**, bars, barriers, **spits** etc. are important depositional landforms made by sea and oceanic waves.

Hence, Option C is the correct answer.

65. **Solution: D**

The **National Investigation Agency (NIA)** was established as a Central Counter Terrorism Law Enforcement Agency under the **NIA Act of 2008**.

It was created in the wake of the 26/11 Mumbai attacks. It investigates offences affecting the sovereignty, security & integrity of India, friendly relations with foreign States, etc. specified in Schedule to NIA Act, 2008. It is headquartered in

New Delhi with two Zonal offices at Guwahati & Jammu.

Hence, Option D is the correct answer.

66. **Solution: C**

Rajya Sabha is required to return a Money Bill passed and transmitted by Lok Sabha within a period of 14 days from the date of its receipt. Rajya Sabha may return a Money Bill transmitted to it **with or without recommendations**. It is open to Lok Sabha to accept or reject all or any of the recommendations of Rajya Sabha.

If Rajya Sabha does not return a Money Bill within the prescribed period of 14 days, the Bill is deemed to have been passed by both Houses of Parliament at the expiry of the said period of 14 days in the form in which it was passed by Lok Sabha.

Hence, Option C is the correct answer.

67. **Solution: A**

Indian federalism is called a quasi-federal structure because it exhibits features of both federal and unitary systems of government. The Constitution of India establishes a dual polity with a clear division of powers between the Union and the States. However, in practice, the central government has a dominant role. For instance, during emergencies, the central government assumes greater control over states, which is a unitary feature.

The Indian Constitution **does not** explicitly provide for the use of referendums. Referendums are a direct form of democracy where citizens vote on specific issues.

Hence, Option A is the correct answer.

68. **Solution: C**

Ashoka sent his son Mahendra and daughter Sanghamitra to spread the message of Dhamma to **Sri Lanka**. This information is primarily found in Buddhist texts like the **Mahavamsa**, which detail the story of Ashoka's missionary activities in Sri Lanka.

Hence, option C is the correct answer.

69. **Solution: B**

When the sun, the moon and the earth are in a straight line, the height of the tide will be higher. These are called spring tides and they occur twice a month, one during the full moon period and another during the new moon period.

Neap Tides: The sun and moon are at right angles to each other and the forces of the sun and moon tend to counteract one another.

The periodical rise and fall of the sea level, once or twice a day, mainly due to the attraction of the sun and the moon, is called a tide.

70. **Solution: A**

The Northern flank of the peninsular block was subjected to subsidence and the consequent trough faulting occurred. Trough fault is a usually long and narrow depression bounded on either side by faults.

The Narmada and The Tapi rivers flow in these trough faults and fill the original cracks with their detritus. This has made these rivers devoid of alluvial and deltaic deposits.

71. **Solution: C**

The loudness of sound is measured in terms of **Amplitude**.

Wavelength, the spatial period of a wave, is the distance over which the wave's shape repeats. The

frequency of a wave is the number of waves that pass a fixed point in one second, measured in Hertz (Hz).

Hence, option C is the correct answer.

72. **Solution: B**

The **Arya Samaj**, founded by Swami Dayanand Saraswati in 1875, is a socio-religious reform movement based on the principles of the Vedas. It emphasizes monotheism, rejecting idol worship and rituals, and promotes the concept of "Krinanto Vishwam Aryam" (Make the world noble). It launched the **Shuddhi Movement** to facilitate the reconversion of Hindus who had embraced other religions, primarily Islam and Christianity, often due to social, economic, or political pressures.

Hence, Option B is the correct answer.

73. **Solution: B**

Recently, a historic agreement was signed between Bhutan's Druk Green Power Corporation (DGPC) and India's Adani Group, under which they will jointly develop 5,000 MW hydropower projects in Bhutan. The agreement was signed in Thimpu by DGPC Managing Director Dasho Chhewang Rinzin and Adani Green Hydro Ltd COO Naresh Telgu.

74. **Solution: D**

Vizhinjam International Seaport, inaugurated by Prime Minister Narendra Modi on 2 May 2025 in Thiruvananthapuram, Kerala, is India's first dedicated deep-water container transshipment hub. It was developed at a cost of about ₹8,867 crore under the public-private partnership model between the Government of Kerala and Adani Ports and Special Economic Zone Limited (APSEZ).

75. **Solution: D**

Vice President of India Jagdeep Dhankar inaugurated the **27th International Congress of Vedanta** at **Jawaharlal Nehru University in New Delhi**.

The theme of this conference was **"Re-imagining Vedāntic World Order."**

The conference was organized from 3 to 5 January 2025.

The aim is to get philosophers, scientists, educators, academia, researchers, and scholar students to exchange and share their knowledge, new ideas, research results, and experiences.

International Congress of Vedānta:

International Congress of Vedānta, founded in 1986 in the Department of Philosophy at Miami University, Oxford, Ohio, USA, by Prof. Rama Rao Pappu is now located at the Center for Indic Studies, University of Massachusetts, Dartmouth, USA.

The Vedanta Congress will continue to be the Program Planner for future conferences but the organizational details of the conference will be handled in the Center for Indic Studies of the University of Massachusetts, Dartmouth, USA.

In 2008, Jawaharlal Nehru University signed a Memorandum of Understanding (MoU) with the University of Massachusetts, Dartmouth. Besides the exchange of faculty and research scholars between the two Universities, it has also been agreed that the Congress of Vedanta will be held at Jawaharlal Nehru University every fourth year.

Hence, Option D is the correct answer.

English Language

76. **Solution: D**
'It's' is a short form for 'it is' and 'it has', and 'its' is a possessive determiner that means 'belonging to or connected with the thing mentioned'. So, the use of 'it's' is incorrect in part d) as here 'its' refers to 'the artificial intelligence group' and portrays that the annual report belonged to the mentioned group. Hence, the answer is option d).

Note:

Possessive Determiners/Adjectives: Words like 'my', 'our', 'your', 'his', 'her', 'its', and 'their' are known as possessive adjectives (or possessive determiners). They come before nouns and indicate ownership of the noun. Example: "The teacher asked the students to open their drawing books."

77. **Solution: A**
The sentence that needs to be changed into active voice is: The cake was baked by Seema (passive voice).

The following rules are applied when converting a sentence into active voice.

The subject of the Passive Voice is changed into the object of the Active Voice. Also, the object of the Passive Voice is changed into the subject of the Active Voice.

The removal of the "to be" verb [was] and the preposition 'by' is necessary while changing the voice of the sentence from Passive to Active.

The Passive voice in the given question is in Past Indefinite. Thus, the Active voice will also be in Past Indefinite.

In Passive voice, the format is: Object of the Active voice (Subjective case) + was/were + V3 + by + Subject of the Active voice (Objective case).

Thus, the format of Active voice is: Subject + V2 + Object.

For example:

The Champions League was won by Real Madrid. (Passive Voice)

Real Madrid won the Champions League. (Active Voice)

The options except (a) don't follow the correct grammatical format of the Active Voice.

Therefore, the correct answer is: Seema baked the cake.

Hence, (a) is the correct answer.

78. **Solution: B**
PRUDENT means sensible and careful when making judgements and decisions. SAGACIOUS (showing good judgement and understanding) is its synonym. Thus, B is the right answer.
CORDIAL: friendly.
PECULIAR: strange.
INNOCUOUS: harmless.

79. **Solution: B**
The correct sequence of the given sentences in the paragraph is DBCA. D begins the paragraph by mentioning how drug traffickers have long used maritime routes because of the vast open waters and complicated maritime laws and jurisdictions. B comes next. It explains that the illegal drug trade through these routes presents serious threats, not only by increasing the amount of drugs but also because of its connections to organised crime, terrorism, and

human trafficking. CA is a mandatory pair and follows B. C explains how dealing with these challenges requires a coordinated international response, in which the United Nations Office on Drugs and Crime Global Maritime Crime Programme (UNODC GMCP) plays an important role. A follows by expanding on the role of UNODC GMCP and telling us about its strategy of providing targeted training sessions to help member states effectively fight maritime crimes. Thus, B is the right answer.

80. **Solution: D**

We need a past participle verb to fit in the passive voice structure IS/AM/ARE + VERB 3.

BANNED (not allowed) will fit here as the sentence tells us that the use of cell phones is not allowed in the restaurant. Thus, D is the right answer.

Band (noun) - a group of musicians who play modern music together. Bend (noun) - a curve or a turn. Bane (noun) - something that causes trouble and makes somebody unhappy.

81. **Solution: B**

INCOMBUSTIBLE refers to a thing that cannot be burnt easily. Thus, B is the right answer.

Incendiary - designed to cause fires. Incorrigible - incapable of being corrected. Indignant - angry at injustice.

82. **Solution: D**

The sentence is in indirect speech. Follow the instructions to change the sentence to direct speech.

I. Add the comma and the inverted commas.

II. REQUESTED will be replaced with SAID TO. In imperative sentences, the reporting verb is used based on the tone of the sentence. The speaker is asking for something politely or making a polite request, as indicated by the use of the word REQUESTED as a reported verb in indirect speech. The reported verb changes to expressions like PLEASE, BEG YOU, REQUEST YOU in reporting speech of direct speech to maintain the polite requesting tone.

III. Remove the conjunction TO, and replace NOT TO BE LATE with DO NOT BE LATE.

IV. THE NEXT DAY will become TOMORROW.

Thus, D is the right answer.

83. **Solution: D**

The idiom TO CHEW THE CUD means to think slowly and carefully about something. Thus, D is the right answer.

None of the other options convey the correct meaning of the given idiom.

84. **Solution: A**

VAIN means giving no results; useless. Therefore, USELESS will be its most appropriate synonym.

Thus, A is the right answer.

CARELESS: not giving enough attention.

DELIGHTFUL: very pleasant or enjoyable.

SENSIBLE: done or chosen wisely.

85. **Solution: A**

Omnipresent: one who is present everywhere.

Omnipotent: one who is all powerful.

Omnivorous: one who eats both plants and animals.

Omniscient: one who knows everything.

Hence option (a) is the right answer.

86. **Solution: C**

Taciturn- inclined to silence; reserved in speech; reluctant to join in conversation

Loquacious- having a tendency to talk a lot
So, the two words can be used as antonyms.
Hence, (c) is the correct answer.

Aloof- not friendly to other people; distant
Reticent- disposed to be silent or not to speak freely; reserved

87. **Solution: A**

The error is in part A of the sentence. In A, replace the plural verb POSSESS with the singular verb POSSESSES to agree with the singular noun THE MEDITERRANEAN DIET. Thus, A is the right answer.

88. **Solution: D**

The subject of the Active Voice is changed into the object of the Passive Voice. Also, the object of the Active Voice is changed into the subject of the Passive Voice.

The usage of a 'to be' form of the verb [being] is necessary while changing the voice of the sentence from Active to Passive.

The preposition 'by' is used before the object made in Passive Voice. However, it is optional in some cases.

The Active voice in this question is in Present Continuous. Thus, the Passive voice will also be in Present Continuous.

The format of Active voice is: Subject + am/is/are + Verb (ing) + Object.

Thus, in Passive voice, the format will be: Object of the active voice (Subjective case) + am/is/are + being + V3 + by + Subject of the active voice (Objective case).

For example:

Arnab is typing a document. (Active Voice)

A document is being typed by Arnab. (Passive Voice)

The options except (d) don't follow the correct grammatical format of the Passive Voice.

Hence, the correct answer is option (d).

89. **Solution: C**

BDAC is the correct sequence of the given jumbles. B begins the paragraph by telling us how CFS, a well-known nuclear fusion company, will make an investment to build a nuclear power plant near Richmond. D follows B to indicate that when this plant would become functional, it would greatly contribute to power generation. A follows D to suggest that this power would be enough to supply energy to around 150,000 homes. C concludes by telling us that this entire journey is going to be filled with obstacles because the technology has not yet been proved viable. Thus, C is the right answer.

90. **Solution: C**

A CASINO is a place where people play games and bet on them.

Thus, C is the right answer.

MOTEL: a hotel for people travelling by car.

HOTEL: a building where people stay, paying for their rooms.

PUB: a place where alcoholic drinks and food are served.

91. **Solution: C**

EMBARRAS is incorrectly spelled. The correct spelling of the word is EMBARRASS (to make someone feel shy or ashamed). Thus, C is the right answer.

The remaining words are correctly spelled.

POSSESS: to own.

INTEGRATE: to include.

ASSURANCE: guarantee.

92. **Solution: B**

Dull: not bright, intense, or clear; dim.

Vibrant: vigorous; energetic; vital.

So, the two words can be used as antonyms of each other. Hence, (b) is the correct answer.

Apathetic: having or showing little or no emotion.

93. **Solution: B**

The idiom TAKE THE BULL BY THE HORNS means to deal with a difficult situation directly and confidently.

Thus, B is the right answer.

The remaining options do not convey the correct meaning of the given idiom.

94. **Solution: D**

The word FLIMSY means not strong. STURDY (strong and healthy) is its antonym. Thus, D is the right answer.

Casual - relaxed and not worried. Practical - fitting the needs of a particular situation in a helpful way. Legit - allowed by law or done according to the rules of an organisation or activity.

95. **Solution: C**

Replace INFORMATIONS with INFORMATION as it is a singular uncountable noun and cannot be pluralised by adding 's' at the end. Thus, C is the right answer.

96. **Solution: A**

"Fell to his death" is the correct idiom and fits the narrative of an accidental fatal fall.

"Jumped" implies intent, which isn't the case.

"Rolled" is physically inaccurate.

"Collapsed" implies fainting or sudden internal failure.

97. **Solution: D**

"On the ground" is correct as the fire started before takeoff.

"In the air" would mean after takeoff, which contradicts the text.

"Basket" is part of the balloon but doesn't fit grammatically.

"Sky" is illogical in this context.

98. **Solution: B**

"Escape the burning basket" perfectly describes saving someone from danger.

"Enter" is opposite of what's needed.

"View" is unrelated.

"Remove" would require an object (e.g., remove the passengers), and is awkward here.

99. **Solution: B**

"Lifted off" is the correct aviation term meaning to rise into the air.

"Floated" suggests gentle movement but doesn't emphasize takeoff.

"Took" is vague without an object.

"Blew" implies wind-driven movement, not active ascent.

100. **Solution: D**

"Hero" is the most appropriate word to honor someone's selfless act of bravery.

"Leader" doesn't reflect the action.

"Rescuer" is technically correct but lacks the emotional weight of "hero."

"Warrior" implies combat, not rescue.