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Rajnish Bhatnagar

SSC CHSL Pre

Solution

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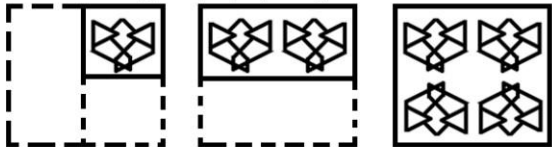


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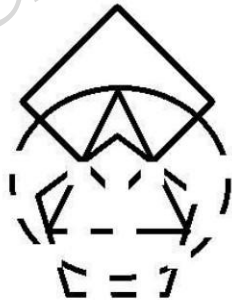
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General Intelligence and Reasoning

1. **Solution: D**
Given series:
G _ C _ E _ G H _ C _ E G _ _ C E _ _ H C _ E E
The letter sequence is as follows:
G H C C E E / G H C C E E / G H C C E E / G H C C E E
'H, C, E, C, E, H, C, E, G, C' when placed sequentially in the blanks of the given series will complete the series.
2. **Solution: A**
The pattern followed here is:
In each row,
2nd letter = The 5th succeeding letter of the 1st letter as per the English Alphabetical series.
3rd letter = The 3rd preceding letter of the 2nd letter as per the English Alphabetical series.
For Row 1:
1st letter = W, 2nd letter = W + 5 = B, 3rd letter = B - 3 = Y
For Row 2:
1st letter = J, 2nd letter = J + 5 = O, 3rd letter = O - 3 = L
Similarly, for Row 3:
1st letter = V, 2nd letter = V + 5 = A, 3rd letter = A - 3 = X
So, 'X' will come in place of question mark.
3. **Solution: C**
UNEMOTIONAL
'EI', 'IN', 'NO', 'LO' and 'LN' are five such pairs which have as many letters between them as in English alphabetical series.
4. **Solution: D**
All are synonyms of word 'Reserved' except word 'Energetic'.
5. **Solution: C**
Here, the pattern is:
 $20 : 289 = (20 - 3)^2 = 17^2 = 289$
 $11 : 64 = (11 - 3)^2 = 8^2 = 64$
Similarly,
Option (a) $23 : 361 = (23 - 3)^2 = 20^2 = 400$. So, option (a) is incorrect.
Option (b) $7 : 25 = (7 - 3)^2 = 4^2 = 16$. So, option (b) is incorrect.
Option (c) $9 : 36 = (9 - 3)^2 = 6^2 = 36$. So, option (c) is correct.
Option (d) $15 : 169 = (15 - 3)^2 = 12^2 = 144$. So, option (d) is incorrect.
6. **Solution: B**
After unfolding the paper, we get:

7. **Solution: A**
There are 2 odd days in a leap year and 1 odd day in non leap year.
There are 2 leap years (2008 and 2012) between 2005 and 2012
The remaining 5 years are non leap years.
Thus total odd days = $2 \times 2 + 5 \times 1 = 4 + 5 = 9$
So, there are 2 odd days.
As, we are counting in backward so, the days would have to be taken in backwards from Saturday.

8. **Solution: C**
 $(E + W) - (B + R) = 8$
 $(L + F) - (C + A) = 14$
So, $DA - WN = ?$
 $(W + N) - (D + A) = 32$
9. **Solution: C**
A thermometer measures temperature, while a seismograph measures earthquake intensity.
So, the correct answer is Earthquake.
10. **Solution: A**
$$\begin{array}{c} -H = +J - L^+ \\ | \\ P - N^- \end{array}$$

H is father's Brother's wife of N.
11. **Solution: C**
 $A - 4 = W, W - 4 = S, S - 4 = O, O - 4 = K$
 $B + 6 = H, H + 6 = N, N + 6 = T, T + 6 = Z$
 $C + 13 = P, P + 13 = C, C + 13 = P, P + 13 = C$
So, ? = KZC
12. **Solution: C**
Pattern is:
 $68 + 14 = 82$
 $82 + 28 = 110$
 $110 + 14 = 124$
 $124 + 28 = 152$
 $152 + 14 = 166$
 $166 + 28 = 194$
13. **Solution: C**
The embedded figure is as follows:

14. **Solution: C**
Given word:
On rearranging the letters, we get, twelve letters word 'HOUSEWARMING', so

H	O	U	S	E	W	A	R	M	I	N	G
7	4	8	11	2	12	1	5	10	6	3	9

'7, 4, 8, 11, 2, 12, 1, 5, 10, 6, 3, 9' is a combination of a meaningful English word.
15. **Solution: B**
The logic followed here is:
In 'AB:CD':
 $CD = \{AB \times (A \times B)\}$
In '34: 408':
1st number = 34, 2nd number = $\{34 \times (3 \times 4)\} = \{34 \times 12\} = 408$
In '29: 522':
5th number = 29, 6th number = $\{29 \times (2 \times 9)\} = \{29 \times 18\} = 522$
Similarly, in '45: ?':
3rd number = 45, 4th number = $\{45 \times (4 \times 5)\} = \{45 \times 20\} = 900$
Therefore, '900' will come in place of question mark.
16. **Solution: C**
Given: 84 # 12 # 6 # 21 # 18 # 45

On replacing # with the mathematical operators:

In option 'A', $84 \div 12 \times 6 \div 21 - 18 = 45$

LHS:

$$= 84 \div 12 \times 6 \div 21 - 18$$

As, ' 12×6 ' is not completely divisible by '21', so, LHS can never be equal to RHS.

In option 'B', $84 \times 12 \div 6 - 21 \div 18 = 45$

LHS:

$$= 84 \times 12 \div 6 - 21 \div 18$$

As, 21 is not completely divisible by 18, so, LHS can never be equal to RHS.

In option 'C', $84 \div 12 \times 6 + 21 - 18 = 45$

LHS:

$$= 84 \div 12 \times 6 + 21 - 18$$

$$= 7 \times 6 + 21 - 18$$

$$= 42 + 21 - 18$$

$$= 63 - 18$$

$$= 45$$

In option 'D', $84 + 12 \div 6 - 21 \times 18 = 45$

LHS: $84 + 12 \div 6 - 21 \times 18$

$$= 84 + 2 - 378$$

$$= 86 - 378$$

$$= -292$$

LHS $\neq$ RHS

17.

Solution: B

The mirror image is -



X ————— Y



Thus, the answer is option (b).

Option (I) is not the answer because the mirror image of the Heart image is not drawn.

Option (III) is not the answer because mirror image of Smiley image is not drawn.

Option (IV) is not the answer because the arrow image is darkened.

18.

Solution: C

Based on the statements, we can infer that since each correct is wrong and no wrong is right, no correct can be right. Therefore, conclusion I follows.

And, since each correct is wrong, it contradicts the idea that some wrongs are correct. Thus, conclusion II follow.

So, Both conclusion I and II follow.

19.

Solution: B

By Interchanging 8 and 7:

$$\text{I. } 7 + 8 \times 9 \div 3 - 6 = 7 + 8 \times 3 - 6 = 7 + 24 - 6 = 25$$

$$\text{II. } 8 \times 5 - 7 + 6 \div 2 = 40 - 7 + 3 = 36 \neq 38$$

20.

Solution: D

'567' $\Rightarrow$ 'high and low' --- (1)

'629' $\Rightarrow$ 'Building are high' -- (2)

'531' $\Rightarrow$ 'hot and sour' --- (3)

From (1) and (2),

6 $\Rightarrow$ high

From (1) and (3),

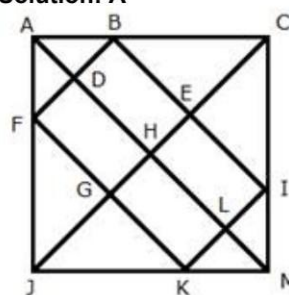
5 $\Rightarrow$ and

Now from (1),

low $\Rightarrow$ 7

21.

Solution: A

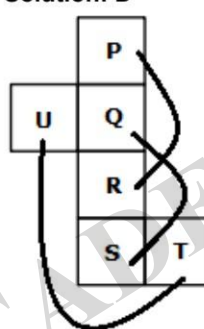


The triangles are FAD, BAD, FAB, JAH, HAC, JAC, FGJ, JGK, JFK, JHM, AJM, KLM, MLI, KMI, CHM, JMC, BEC, CEI, BCI, ACM.

So, there are 20 triangles.

22.

Solution: D



The given lines show the opposite faces when folded into a cube

23.

Solution: C

All are sets of vowels except option C.

24.

Solution: C

By interchanging the + and - signs:

$$\text{I. } 18 \div 3 - 8 \times 5 + 4 = 6 - 40 + 4 = -30 \neq 20$$

$$\text{II. } 6 - 8 \times 9 \div 3 + 4 = 6 - 24 + 4 = -14 \neq 14$$

Both equations are incorrect after interchanging the signs.

25.

Solution: C

Symbol/Text in each part are rotating anticlockwise except above part. Symbol/Text in above part is changing.



Quantitative Aptitude

26.

Solution: B

$$(\sin\theta + \operatorname{cosec}\theta)^2 + (\cos\theta + \sec\theta)^2$$

$$= \sin^2\theta + \operatorname{cosec}^2\theta + 2\sin\theta\operatorname{cosec}\theta + \cos^2\theta + \sec^2\theta + 2\cos\theta\sec\theta$$

$$\text{Using, } \operatorname{cosec}\theta = (1/\sin\theta) \text{ and } \sec\theta = (1/\cos\theta)]$$

$$= \sin^2\theta + \operatorname{cosec}^2\theta + 2\sin\theta \times (1/\sin\theta) + \cos^2\theta + \sec^2\theta + 2\cos\theta \times (1/\cos\theta)$$

$$= \sin^2\theta + \operatorname{cosec}^2\theta + 2 + \cos^2\theta + \sec^2\theta + 2$$

$$= 2 + 2 + \sin^2\theta + \operatorname{cosec}^2\theta + \cos^2\theta + \sec^2\theta$$

$$= 2 + 2 + 1 + \operatorname{cosec}^2\theta + \sec^2\theta \text{ [Since we know, } \sin^2\theta + \cos^2\theta = 1]$$

$$= 5 + \operatorname{cosec}^2\theta + \sec^2\theta$$

27.

Solution: A

Distance between place 'x' and place 'Y' = 80×4

$$= 320 \text{ km}$$

Distance between place 'Y' and place 'Z' = $80 \times 1.5 \times 1 = 120$ km

So, total distance travelled by Rishi = $320 + 120 = 440$ km

Total time taken by Rishi = $4 + 1 = 5$ hours

Average speed of Rishi = $(440/5) = 88$ km/h

28. **Solution: C**

Let the initial quantity of milk and water be '3y' and '7y' litres respectively.

So, $(3y + 9) : (7y + 29) = 2:5$

Or, $5 \times (3y + 9) = 2 \times (7y + 29)$

Or, $15y + 45 = 14y + 58$

Or, 'y' = 13

Therefore, required quantity = $3y + 7y = 10y$

= $10 \times 13 = 130$ litres

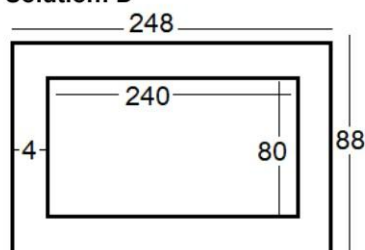
29. **Solution: B**

Difference between the percentage corresponding to number of trees in 'A' and 'C':

= $24 - 22 = 2\%$

So, required angle = $(2/100) \times 360 = 7.2^\circ$

30. **Solution: D**



Area of the path = Area of big rectangle - area of small rectangle

= $(248 \times 88) - (240 \times 80) = 21824 - 19200$

= 2624 meter²

31. **Solution: C**

$(a + b + 2c)(a^2 + b^2 + 4c^2 - ab - 2bc - 2ca)$

= $a^3 + b^3 + 8c^3 - 6abc$

As we know,

$x^3 + y^3 + z^3 - 3xyz$

= $(x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$

32. **Solution: A**

If two triangles are similar, then corresponding angles are equal.

So, $\angle C = \angle X$, $\angle D = \angle Y$ and $\angle E = \angle Z$

In triangle CDE,

$\angle C + \angle D + \angle E = 180$

$\angle C = 180 - 30 - 40$

$\angle C = 110^\circ$

So, $\angle X = \angle C = 110^\circ$

33. **Solution: (A)**

Average = 30

$(32 + 34 + 38 + 21 + 26 + x)/6 = 30$

$151 + x = 180$

So, $x = 180 - 151 = 29$

34. **Solution: C**

So, required selling price = $2400 \times 0.8 \times 0.75 = ₹1440$

35. **Solution: A**

Let the total work be 210 units. {LCM (30 and 42) }

So, efficiency of 'A' = $(210/30) = 7$ units/day

And, efficiency of 'B' = $(210/42) = 5$ units/day

So, work done in 2 days = $7 + 5 = 12$ days

So, work done in 34 days = $12 \times (34/2) = 204$ units

Remaining work = $210 - 204 = 6$ units

Time taken by 'A' to do the remaining work

= $(6/7)$ days

Total time taken = $34 + (6/7) = 34\frac{6}{7}$ days

36. **Solution: C**

$(7x + 5y)^2 - (7x - 5y)^2$

Using $a^2 - b^2 = (a + b)(a - b)$

= $(7x + 5y + 7x - 5y)(7x + 5y - 7x + 5y)$

= $(14x)(10y) = 140xy$

37. **Solution: B**

total marks scored by all four students in Hindi

= $(48 + 60 + 56 + 64) = 228$

total marks scored by all four students in Maths

= $(54 + 62 + 80 + 72) = 268$

so, required ratio = $(228:268) = (57:67)$

38. **Solution: A**

'p' = $(5/2)^{0.6} \times (2/5)^{-1.4} \div (5/2)^{-1}$

Or, 'p' = $(5/2)^{0.6} \times (5/2)^{1.4} \div (5/2)^{-1}$

Or, 'p' = $(5/2)^{0.6 + 1.4 - (-1)}$

Or, 'p' = $(5/2)^3 = (125/8)$

Therefore, required value = $20 \times (125/8)^{1/3}$

= $20 \times (5/2) = 50$

39. **Solution: B**

Sum of the digits of the number 86759836

= $8 + 6 + 7 + 5 + 9 + 8 + 3 + 6$

= 52

Now from 52 if we subtract 1, we get 51 which is divisible by 3 but not by 9.

40. **Solution: (A)**

Given that

$0.2P + 0.4Q = 0.8Q$,

Or, $0.2P = 0.4Q$.

Or, $P = 2Q$,

Which means P is 200% of Q.

41. **Solution: C**

Statement I:

Two angles are called supplementary if sum of both the angles is 180° .

Statement II:

Let the measure of each equal angle in the isosceles triangle be 'y'.

So, $y + y + 90 = 180$

Or, $2y = 90$

Or, 'y' = 45°

Therefore, both statements I and II are true.

42. **Solution: A**

$CI = P \left[\left(1 + \frac{r}{100} \right)^n - 1 \right]$

$4180 = P \left[\left(1 + \frac{20}{100} \right)^2 - 1 \right]$

$4180 = P \left[\left(1 + \frac{1}{5} \right)^2 - 1 \right]$

$4180 = P \left[\left(\frac{6}{5} \right)^2 - 1 \right]$

$4180 = P (36/25 - 1)$

$4180 = P (11/25)$

$P = 4180 \times 25/11 = ₹9500$

43. **Solution: A**

$J1 = 55 + 50 + 80 + 45 + 30 = 260$

$J2 = (50 + 40 + 20 + 15 + 5) - (5 + 10 + 60 + 30 + 25)$

= $130 - 130 = 0$

So, $J1 + J2 = 260 + 0 = 260$

44. **Solution: A**

Volume of hemisphere of radius 12 cm

= $(2/3)\pi(12^3) \text{ cm}^3 = 1152\pi \text{ cm}^3$

Volume of sphere of radius 6 cm

= $(4/3)\pi(6^3) \text{ cm}^3 = 288\pi \text{ cm}^3$

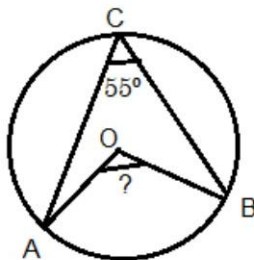
Required number of balls = $\frac{1152\pi \text{ cm}^3}{288\pi \text{ cm}^3} = 4$

45. **Solution: C**

The prime numbers between 20 and 50 are 23, 29, 31, 37, 41, 43 and 47

Hence, there are 7 prime numbers between 20 and 50.

46. Solution: D



Angle AOB = $2 \times 55 = 110$ degree

47. Solution: C

Let the usual speed of the car = x km/h
The car left 60 minutes early, so it had 1 extra hour to cover the distance. The speed of the car was reduced by 14 km/h

So, new speed = $x - 14$ km/h.

According to question,

$$\text{So, } \frac{280}{x-14} = \frac{280}{x} - 1.$$

$$\text{Or, } \frac{x-14}{280} = \frac{x}{280} - \frac{1}{x}$$

$$\text{Or, } \frac{x-14}{x} = \frac{x}{280} - \frac{1}{x}$$

$$\text{Or, } 280x = 280(x-14) - x(x-14)$$

$$\text{Or, } 280x = 280x - 3920 - x^2 + 14x$$

$$\text{Or, } x^2 - 14x - 3920 = 0$$

$$\text{Or, } x^2 - 70x + 56x - 3920 = 0$$

$$\text{Or, } x(x-70) + 56(x-70) = 0$$

$$\text{Or, } (x-70)(x+56) = 0$$

$$\text{So, } x = 70 \text{ km/h}$$

48. Solution: D

The total age of the 6 girls = $6x$ years.

The total age after the four new girls joined

$$= 6x + (x-2) + (x+4) + (x+8) + (x+10)$$

$$= 10x + 20$$

$$\text{The new average} = (10x + 20)/10$$

$$= x + 2$$

49. Solution: B

We need to find the sum of the first 200 terms of the given series:

$$1 + 5 + 6 + 10 + 11 + 15 + 16 + 20 + \dots$$

Notice that the series can be divided into two separate arithmetic sequences:

Sequence A: 1, 6, 11, 16, ...

Sequence B: 5, 10, 15, 20, ...

Sum of the first 100 terms of Sequence A:

$$n = 100, a_1 = 1, d = 5$$

$$S_A = (n/2) \times (2 \times a_1 + (n-1) \times d)$$

$$= (100/2) \times (2 \times 1 + (100-1) \times 5)$$

$$= 50 \times (2 + 495) = 50 \times 497 = 24850$$

Now, let's find the sum of the first 100 terms of Sequence B:

$$n = 100, a_1 = 5, d = 5$$

Using the same formula:

$$S_B = (100/2) \times (2 \times 5 + (100-1) \times 5)$$

$$= 50 \times (10 + 495)$$

$$= 50 \times 505$$

$$= 25250$$

Now, we can find the sum of the first 200 terms of the original series:

$$S_{200} = S_A + S_B = 24850 + 25250 = 50100$$

50. Solution: C

$$\sin x + \sin Y = 2 \sin [(x+Y)/2] \cos [(x-Y)/2]$$

$$\text{So, } \sin 2A + \sin 2B = 2 \sin (A+B) \cos (A-B)$$

General Awareness

51. Solution: D

The book "**A Suitable Boy**" was authored by **Vikram Seth** in 1993. It is one of the longest English novels ever published in a single volume, spanning 1,349 pages. The novel is set in post-independence India and follows the lives of four families.

Other Books by Vikram Seth:

· The Golden Gate (1986) - A novel in verse.

· An Equal Music (1999) - A story of love and music.

· Two Lives (2005) - A memoir.

Hence, option D is the correct answer.

52. Solution: D

The **Ken** is an interstate river between Uttar Pradesh and Madhya Pradesh. It has its origin from the Ahirgawan village on the north-west slopes of the Kaimur hills in the Jabalpur district of Madhya Pradesh.

The total length of the river from its origin to the confluence with the river Yamuna is 427 km.

The river is the last tributary of the Yamuna before the Yamuna joins the Ganga.

The important tributaries of Ken are **Alona, Bearma, Sonar, Mirhasan, Shyamari, Banne, Kutri, Urmil, Kail and Chandrawal.**

Hence, Option D is the correct answer.

53. Solution: B

The 12th century witnessed the emergence of a new movement in Karnataka, led by a Brahmana named Basavanna (1106-68) who was initially a Jaina and a minister in the court of a Chalukya king. His followers were known as **Virashaivas (heroes of Shiva)** or **Lingayats (wearers of the linga)**.

Lingayats worship Shiva in his manifestation as a linga, and men usually wear a small linga in a silver case on a loop strung over the left shoulder. Those who are revered include the jangama or wandering monks.

Lingayats believe that on death the devotee will be united with Shiva and will not return to this world. Therefore, they do not practice funerary rites such as cremation, prescribed in the Dharmashastras. Instead, they ceremonially bury their dead.

Hence, Option B is the correct answer.

54. Solution: B

In the **Subhash Chandra Agarwal vs. Dept. of Personnel case, 2010**, the Constitution Bench of the Supreme Court of India (SC) ruled that the office of the Chief Justice of India (CJI) would come under the ambit of the Right to Information Act, 2005 (RTI Act), as CJI is a public authority under the RTI Act. The declaration of assets by ministers and legislators provides the citizenry with more relevant information about their representatives.

Hence, Option B is the correct answer.

55. Solution: B

Napalm is an organic compound that thickens gasoline for firebombs. **The mixture burns slowly and sticks to surfaces like the human body, continuing to burn upon contact.** It was developed in the USA and used in the Second World War.

Hence, Option B is the correct answer.

56. Solution: B

The **Walker Cup** is a **golf** trophy contested in odd-numbered years by leading male amateur golfers in two teams: United States, and Great Britain and

Ireland featuring players from the United Kingdom and Ireland.

- It is organised by The R&A and the United States Golf Association (USGA).

- The cup is named after George Herbert Walker who was president of the USGA in 1920 when the match was initiated.

Hence, Option B is the correct answer.

57. **Solution: B**

Rolling Plan (1979-80) :

- Rolling plan (Gunnar Myrdal) was brought out by Janata Party Government under **Morarji Desai** in 1978.

- The focus of the plan was enlargement of the employment potential in agriculture and allied activities to raise the income of the lowest income classes.

Hence, Option B is the correct answer.

58. **Solution: C**

- Article 268 in Constitution of India:** Duties levied by the Union but collected and appropriated by the States.

- Article 74 in Constitution of India:** Council of Ministers to aid and advise President.

- Article 263 in Constitution of India:** Provisions with respect to an inter-State Council.

Hence, Option C is the correct answer.

59. **Solution: C**

A **proton** is a positively charged sub-atomic particle. It was first discovered by Goldstein as anode rays in 1886 and finally identified and **named by Rutherford in 1919**. Its symbol is p or p⁺. The charge on a proton is (+) 1.6022 X 10⁻¹⁹ coulomb. Its weight is 1.6726 X 10⁻²⁷ kg. Its atomic mass unit is 1.00727.

Hence, option C is the correct answer.

60. **Solution: B**

The term Blue Line is associated with Ice Hockey.

In ice hockey, the Blue Line refers to the two blue lines that run parallel to each other across the ice rink, dividing the rink into three zones: the defensive zone, the neutral zone, and the attacking zone.

Other terms used in Ice Hockey are:

Puck - The rubber disk used in the game.

Faceoff - The method of starting or resuming play.

Power Play - A situation where a team has more players due to a penalty.

Penalty Box - The area where players serve time for penalties.

Offside - When a player enters the attacking zone before the puck.

Icing - A violation where the puck is shot past the opponent's goal line without being touched.

Hat Trick - Scoring three goals in a single game.

Slap Shot - A powerful shot made by swinging the stick.

Assist - A pass leading directly to a goal.

Checking - Using the body or stick to disrupt an opponent's play.

Goalie/Goaltender - The player who defends the goal.

Zamboni - The machine used to resurface the ice.

Breakaway - A situation where a player has a clear path to the goal.

Blue Line - Divides the ice into three zones.

Sin Bin - Informal term for the penalty box.

61. **Solution: B**

Sales tax: This tax is considered regressive. It imposes the same tax rate on all individuals regardless of their income level. As a result, lower-income individuals end up paying a higher proportion of their income in sales tax compared to higher-income earners. Since everyone pays the same percentage on goods and services, it affects lower-income households more significantly.

62. **Solution: C**

Traditionally celebrated in late February or early March in the Gregorian calendar, Holi marks the arrival of spring and the end of winter, coinciding with the full moon or Purnima on the evening of the Hindu month of **Phalgun**.

Holi is one of the most popular Hindu festivals celebrated with much enthusiasm and fanfare across the country. Also known as Festival of colours, in West Bengal, Assam and Tripura, it is also known as the 'Dol jatra' or 'Basanta Utsav'.

63. **Solution: C**

A total of 117 Indian athletes made up the contingent that went on the hunt for medals and sporting immortality at the Paris 2024 Olympics, which ran from July 26 to August 11.

In all, India won six medals - a silver and five bronze - at the Paris 2024 Olympics.

64. **Solution: C**

Important leaders of 1857 revolt	Places
Tatya Tope	Kanpur
Azimullah	Kanpur
Maharaj Kunwar Singh	Arrah (Bihar)
Khan Bahadur Khan	Bareilly
Begum Hazrat Mahal	Lucknow
Maulvi Ahmadullah	Faizabad

65. **Solution: B**

Europe is one of the world's largest peninsulas and the only one with a continental status. It is the world's 5th largest continent by area, covering approximately 9.9 million km².

The four largest peninsulas in Europe are Italian, Balkan, Iberian, and Scandinavian Peninsulas. The **Iberian Peninsula** is the continent's second-largest peninsula after the Scandinavian Peninsula.

66. **Solution: B**

The Ministry of Rural Development (MoRD) announced the Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY) Antyodaya Diwas, on 25th September 2014. DDU-GKY is a part of the National Rural Livelihood Mission (NRLM), tasked with the dual objectives of adding diversity to the incomes of rural poor families and cater to the career aspirations of rural youth.

- DDU-GKY is uniquely focused on rural youth between the ages of 15 and 35 years from poor families.

- As a part of the Skill India campaign, it plays an instrumental role in supporting the social and economic programs of the government like the Make in India, Digital India, Smart Cities and Start-Up India, Stand-Up India campaigns.

67. **Solution: D**

The Competition Commission of India (CCI) is the chief national competition regulator in India. It is a

statutory body within the Ministry of Corporate Affairs.

CCI consists of a Chairperson and 6 Members appointed by the Central Government.

It is the duty of the Commission to eliminate practices having adverse effect on competition, promote and sustain competition, protect the interests of consumers and ensure freedom of trade in the markets of India. It was established in 2003 under Competition Act, 2002.

68. **Solution: C**

Vasco da Gama led by a Gujarati guide named **Ahmad ibn Majid** arrived at Calicut, a port situated on the Indian Western Coast, on 20 May 1498. He had successfully discovered a new and alternative sea route to India from Europe. Zamorin the then ruler of Calicut, welcomed Vasco da Gama. The arrival of Vasco da Gama in India started a new era of trade between the Portuguese and India. Vasco da Gama made 60 times more profit in the business of Black Pepper which was enough to lure other merchants to India.

Hence, option C is the correct answer.

69. **Solution: B**

Indira Gandhi Centre for Atomic Research (IGCAR) is one of India's premier nuclear research centers.

- It is located at Kalpakkam, Chennai, Tamil Nadu.

- It was established in 1971.

- Originally, it was called Reactor Research Centre (RRC).

- It was renamed to Indira Gandhi Centre for Atomic Research (IGCAR) by the then Prime Minister of India Rajiv Gandhi in December 1985.

Hence, Option B is the correct answer.

70. **Solution: A**

Based on the 2011 Census data, the **sex ratio in Puducherry was 1037**. It was the highest sex ratio among the Union Territories of India and the second-highest sex ratio in India.

Lakshadweep (946) had the second-highest sex ratio among the Union Territories of India. It was followed by Andaman and Nicobar Islands (876), Delhi (868), Chandigarh (818), Dadra and Nagar Haveli (774), and Daman and Diu (618).

Hence, Option A is the correct answer.

71. **Solution: C**

The **Communist Party of India (CPI)** is a communist party in India. It was formed on **26 December 1925** at the first Party Conference in Kanpur. The CPI's primary objectives were grounded in Marxist-Leninist principles, aiming for a democratic revolution as a pathway to socialism.

Notable leaders of the CPI include M.N. Roy, Evelyn Trent-Roy, Abani Mukherji, Rosa Fitingov, Mohd. Ali, Mohamad Shafiq, and M.P.T. Acharya, as well as S.A. Dange, Muzaffar Ahmed, Shaukat Usmani, Nalini Gupta, and others.

Hence, Option C is the correct answer.

72. **Solution: A**

A diamond battery uses the radioactive decay of **carbon-14** (half-life of 5,700 years), an isotope used in radiocarbon dating, to generate electricity. Like a solar panel, a battery converts energy, but instead of light, it uses fast-moving electrons from radioactive decay. It safely absorbs short-range

radiation and generates low levels of electricity without leakage.

Hence, Option A is the correct answer.

73. **Solution: C**

Prime Minister Narendra Modi emphasized the potential of India's cultural and creative economy in his keynote address at the WAVES 2025 conference held in Mumbai on 1 May 2025. He described India as a "global storytelling powerhouse" and referred to the "Orange Economy" and said that content, creativity and culture can become the new basis of India's economic growth.

74. **Solution: C**

The United States has approved a potential foreign military sale worth \$131 million to India, aimed at strengthening maritime security in the Indo-Pacific region. Under this agreement, India will get advanced SeaVision software, training and other support services. This software will enhance India's Maritime Domain Awareness (MDA) capabilities.

75. **Solution: B**

Recently the Department for Promotion of Industry and Internal Trade (DPIIT) and Hafele India Private Limited signed a Memorandum of Understanding (MoU) in New Delhi. The partnership aims to strengthen the manufacturing and innovation ecosystem in India. Under this, emphasis has been laid on empowering startups, MSMEs and entrepreneurs.

English Language

76. **Solution: B**

The error is in part B of the sentence. In B, replace the adverb NATURALLY with the adjective NATURAL to modify the noun SLEEP PATTERNS. Thus, B is the right answer.

77. **Solution: A**

The important meeting: This phrase introduces the subject of the sentence, indicating that there is a significant meeting to be held.

E. to discuss the progress: Following the introduction of the meeting, the purpose of the meeting is explained. It is convened to discuss progress on a particular matter.

C. and future plans will: This part connects the discussion of progress with the broader context of future plans. It indicates that the meeting is not only about the current status but also about planning for the future.

B. take place tomorrow: The sentence then provides the temporal information, specifying when the important meeting will occur, which is tomorrow.

D. afternoon at 3:00: Finally, the sentence concludes by specifying the exact time of the meeting, which is in the afternoon at 3:00.

So, the sentence starts with the subject of the meeting, moves on to its purpose and the broader context, provides the timing information, and concludes with the specific time of the meeting. Hence, (a) is the correct answer.

The final sentence: The important meeting to discuss the progress and future plans will take place tomorrow afternoon at 3:00.

78. **Solution: D**

COMPLEMENTED (added to something in a way that improved it) will fit here, as the sentence seeks to convey that the person's shirt added to and improved his overall appearance by matching perfectly with his trousers. COMPLEMENT is incorrect because it is a base form verb and will not agree with the singular subject SHIRT.

Thus, D is the right answer.

COMPETED: took part in a competition or game.

COMMENTED: expressed an opinion about something.

79. **Solution: B**

ENDURING means lasting for a long time. LASTING (continuing to exist for a long time) is the most appropriate synonym for the word.

Thus, B is the right answer.

FLEETING: lasting for a very short time.

COMPASSIONATE: feeling or showing sympathy.

RESENTFUL: feeling angry because of unfair treatment.

80. **Solution: B**

The given sentence is in active voice. Follow the rules below to change this sentence to the passive voice:

I. The object MY APPLICATION will become the subject and begin the sentence.

II. The simple past tense construction DID NOT EVEN LOOK will change to WAS NOT EVEN LOOKED in the passive voice, to fit in the passive voice structure WAS/WERE + VERB 3.

III. The preposition BY will be added and THE INVIGILATING OFFICER will become its object.

Thus, B is the right answer.

81. **Solution: B**

The error is in B. Replace the past tense verb DISAPPEARED with the base form verb DISAPPEAR to follow the modal verb COULD. Thus, B is the right answer.

82. **Solution: D**

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

I. Remove the comma and inverted commas.

II. SAID TO will be replaced by TOLD. Add THAT after the reporting speech clause, "SHE TOLD MEETA."

III. The present perfect tense HAVE PAINTED needs to be replaced by the past perfect tense HAD PAINTED.

IV. The first person pronoun I will change into the singular third person pronoun SHE.

Thus, D is the right answer.

83. **Solution: D**

BLASPHEMY refers to irreverent (showing a lack of respect) behaviour toward anything that is considered sacred or concerning God.

Thus, D is the right answer.

AGNOSTICISM: the belief that it is impossible to know if God exists.

PANTHEISM: belief in many or all gods.

THEISM: belief in the existence of God.

84. **Solution: C**

CABD is the correct order of the sentences in the paragraph. C begins the paragraph by telling us how our understanding of relationships changes as we progress from childhood to adulthood. A follows C by telling us about the nature of friendships in our childhood. B follows A by stating how childhood

friendships lack the depth that comes with maturity and self-awareness. Finally, D follows B and tells us how, as we enter adolescence, our perspective of friendships changes. Thus, C is the right answer.

85. **Solution: D**

The word CONTEND means to compete against somebody to win or gain something. The sentence seeks to convey that the speaker is stressed realising that he has to compete with others to get the position. COMPETE (to try to get or win something that someone else is also trying to win) is its synonym. Thus, D is the right answer.

Bear - to be able to accept and deal with something unpleasant. Agree - to have the same opinion about something. Yield - to produce or provide crops, profits or results.

86. **Solution: C**

Any female animal that feeds its young ones on milk from her own body is termed a MAMMAL. Thus, C is the right answer.

VERTEBRATE: an animal that has a spine (backbone).

PARASITE: an animal that lives on or inside another animal or plant and gets its food from it.

FAUNA: all the animals living in an area.

87. **Solution: D**

The sentence is in the active voice. Follow the rules below to convert a sentence given in present continuous tense in the active voice to the passive voice:

I. The object clause will become the subject clause. Here, the object of the verb, COLOURS, will change into the subject and begin the sentence.

II. Replace IS FILLING with ARE BEING FILLED, as the passive voice construction for present continuous tense is IS/AM/ARE + BEING + VERB 3. The plural verb ARE is suitable to agree with the new plural subject COLOURS.

III. The subjective pronoun SHE will change into the objective pronoun HER and become the object of the preposition BY.

Thus, D is the right answer.

88. **Solution: C**

SIMPLE means easily understood or done. COMPLICATED (difficult to understand) is its antonym. Thus, C is the right answer.

SCEPTIC: doubtful.

STRAIGHTFORWARD: easy or simple to understand. COURTEOUS: polite.

89. **Solution: A**

In the given sentence the preposition 'than' is used to compare the previous and the present situations. So, the positive degree adjective 'fast' should be replaced with the comparative degree adjective 'faster' to rectify the given sentence. Therefore, the error is in the part in option (a).

The correct sentence is: Global warming is accelerating the loss of Himalayan glaciers much faster than scientists previously thought.

Hence, option (a) is the correct answer.

90. **Solution: C**

BADC is the correct sequence of the given jumbles. B begins the paragraph by telling us that the sun is a violent place. A provides a reason for the same: millions of volcanic eruptions take place on the surface of the sun because of radiation. D follows A to indicate that explosions bigger than this have been

- seen on stars other than the sun. C concludes by telling us that such big explosions have not yet occurred on the sun. Thus, C is the right answer.
91. **Solution: D**
A BONFIRE is a huge outdoor fire, used as part of celebrations.
Thus, D is the right answer.
FIREPOWER: the number and size of guns available.
FESTIVITY: the celebration of something happily and joyfully.
FIREFIGHT: a battle using guns.
92. **Solution: C**
A ANALOGY is incorrectly spelled. The correct spelling of the word is ANALOGY (a comparison between similar things).
Thus, C is the right answer.
The remaining words are correctly spelled.
NOCTURNAL: active or happening at night.
MANIFESTO: a written statement in which people explain their beliefs and aims.
FLEXIBLE: able to change or adapt.
93. **Solution: A**
SIGHT refers to something that one sees; a view. It will fit here, as the sentence talks about the view of the sunset over the ocean.
Thus, A is the right answer.
SITE: a place where something is located or is being constructed.
CITE: to mention something.
SEAT: a thing made for sitting on.
94. **Solution: B**
The idiom TO PULL TO PIECES means to criticise someone or something severely. Thus, B is the right answer.
None of the other options convey the meaning of the given idiom.
95. **Solution: B**
The word SPECTACULAR means very impressive to see. The word UNIMPRESSIVE (not attracting or deserving particular attention) is its antonym. Thus, B is the right answer.
Dishonest - unworthy of trust or belief. Antique - very old and therefore unusual and valuable. Unattended - not watched or looked after.
96. **Solution: B**
"Casting off" is the correct idiom here, meaning to get rid of or abandon something (in this case, a reputation).
"Throwing off" is possible but less idiomatic in this context.
"Blowing off" is informal and means ignoring, not appropriate here.
"Sliding off" makes no contextual sense.
97. **Solution: B**
"Scope" refers to the extent or range of the plan, which is appropriate in the context of assessing a large-scale investment.
"Direction" refers to aim or course, which is more abstract and not specific.
"Cause" and "benefit" do not reflect the full magnitude or extent being discussed.
98. **Solution: C**
"Struck a confident tone" is a well-known collocation in English, meaning to adopt or express a particular mood or tone.
"Took a tone" is grammatically awkward.
"Gave a tone" is not idiomatic.
"Made a tone" is incorrect.
99. **Solution: C**
"Pivot" means a fundamental change in strategy or direction, which fits the context of Germany shifting its fiscal policy.
"Transition" and "change" are broader and less precise.
"Move" is vague.
100. **Solution: C**
"Approving plans" is a standard expression when referring to formal governmental acceptance or authorization.
"Endorsing" suggests support but lacks the official connotation of legislative approval.
"Passing plans" is awkward—laws or bills are passed, not plans.
"Accepting" is too general and doesn't convey formal approval.