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SSC CHSL Pre

Solution

SHP-9III54237-E



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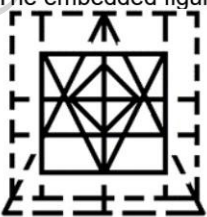


General Intelligence and Reasoning

1. Solution: B
The logic followed here is:
The letters of the word are written in reverse order and then the opposite letter is written for each letter as per the English alphabetical series.
For 'FORMAL':
F O R M A L
L A M R O F
O Z N I L U
So, 'FORMAL' is written as 'OZNILU'.
For 'TRAVEL':
T R A V E L
L E V A R T
O V E Z I G
So, 'TRAVEL' is written as 'OVEZIG'.
Similarly, for 'DOCTOR',
D O C T O R
R O T C O D
I L G X L W
So, 'DOCTOR' is written as 'ILGXLW'.
Hence, option b.
2. Solution: C
Rupee is a Currency and India is a country, so there is no relation between India and Currency and India and Rupee.
So, from the given Venn diagrams, the Venn diagram that represents the correct relationship among Currency, India, Rupee is:
3. Solution: D
All, except 'Kyoto', are currency of a country. Kyoto is a city in Japan.
Hence, option d.
4. Solution: B
Given series:
7 8 _ 1 _ _ 3 2 _ 8 3 _ _ 5 3 _ 7 _ 3 1 9 _ _ 2
The logic followed here is:
'7 8 3 1 9 5 3 2' is repeated three times in the series.
The complete series will be:
7 8 3 1 9 5 3 2 / 7 8 3 1 9 5 3 2 / 7 8 3 1 9 5 3 2
So, '3, 9, 5, 7, 1, 9, 2, 8, 5, 3' will complete the series.
Hence, option b.
5. Solution: D
The logic followed here is:
The second number is the cube of the sum of the digits of the 1st number.
AB - CD
CD = (A + B) ^ 3
In option 'A': '43 - 343',
First number = 43
Second number = 343

Second number = (4 + 3) ^ 3
= 7^3
= 343
343 = 343
In option 'B': '33 - 216',
First number = 33
Second number = 216
Second number = (3 + 3) ^ 3
= 6^3
= 216
216 = 216
In option 'C': '78 - 3375',
First number = 78
Second number = 3375
Second number = (7 + 8) ^ 3
= 15^3
= 3375
3375 = 3375
In option 'D': '98 - 4943',
First number = 98
Second number = 4943
Second = (9 + 8) ^ 3
= 17^3
= 4913
4913 != 4943
Hence, option d.

6. Solution: A
'Adventurous' is the synonym of 'Bold'. Similarly, 'Dull' is the synonym of 'Blunt'.
Hence, option a.
7. Solution: B
The embedded figure is shown below:



- Hence, option b.
8. Solution: C
The pattern followed here is as follows:
First all the letters of the word are changed to their place value as per the English alphabetical series and then, they are written in reverse order as show below.
In 'NOBLES',
- | | | | | | |
|----|----|----|----|----|----|
| N | O | B | L | E | S |
| 14 | 15 | 2 | 12 | 5 | 19 |
| 19 | 5 | 12 | 2 | 15 | 14 |
- So, 'NOBLES' is coded as '1951221514'.
In 'TRAILS',
- | | | | | | |
|----|----|---|---|----|----|
| T | R | A | I | L | S |
| 20 | 18 | 1 | 9 | 12 | 19 |
| 19 | 12 | 9 | 1 | 18 | 20 |
- So, 'TRAILS' is coded as '1912911820'.
Similarly, in 'POSTER',
- | | | | | | |
|----|----|----|----|----|----|
| P | O | S | T | E | R |
| 16 | 15 | 19 | 20 | 5 | 18 |
| 18 | 5 | 20 | 19 | 15 | 16 |

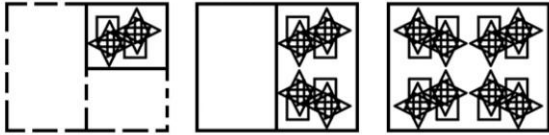
So, 'POSTER' is coded as '18520191516'.
Hence, option c.

9. **Solution: D**
Given: m _ _ q r _ _ n o _ _ p _ n o q r _
The series is:

m n o q r p / m n o q r p / m n o q r p
'n, o, p, m, q, r, m, p' will complete the given series.
The complete series is as follows:
m n o q r p m n o q r p m n o q r p

Hence, option d.

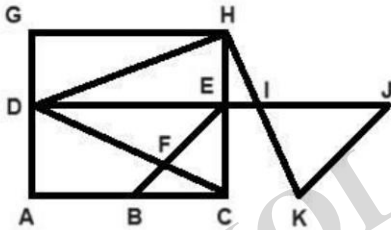
10. **Solution: D**
The unfolding of the paper is as follows:



Hence, option d.

11. **Solution: B**
The logic followed here is:
The 2nd number is sum of the square of the 1st digit
and the 2nd digit of the 1st number.
i.e., if AB:CD, then $CD = A^2 + B^2$
In '54: 41',
1st number = 54, 2nd number = $5^2 + 4^2 = 41$
In '38: 73',
1st number = 38, 2nd number = $3^2 + 8^2 = 73$
In '67: ?',
1st number = 67, 2nd number = $6^2 + 7^2 = 85$
So, '85' will come in place of question mark.
Hence, option b.

12. **Solution: A**



Triangle: EFC, BFC, CBE, DFE, DCE, DAC, DEH,
DHC, GDH, HEI, IKJ and DHI.
So, there are 12 triangles in the given figure.
Hence, option a.

13. **Solution: C**
The logic followed here is as follows:
The middle number = (Product of two numbers given
in the horizontal rectangle) - (Sum of the two numbers
given in the vertical rectangle).
In figure A:
Middle number = 127
Numbers in vertical rectangles = 11 and 9
Numbers in horizontal rectangles = 21 and 7
= $(21 \times 7) - [(11 + 9)]$
= $147 - 20$
= 127
In figure B:
Middle number = 313
Numbers in vertical rectangle = 19 and 12
Numbers in horizontal rectangle = 43 and 8
= $(43 \times 8) - [(19 + 12)]$
= $344 - 31$
= 313
Similarly, in figure C:
Middle number = ?
Numbers in vertical rectangle = 45 and 7

Numbers in horizontal rectangle = 17 and 18
= $(17 \times 18) - [(45 + 7)]$
= $306 - 52$
= 254
So, '254' will come in place of the question mark.
Hence, option c.

14. **Solution: B**
The correct dictionary order of the words is:
4- Tractors, 1- Tragic, 2- Trailer, 5- Transit, 3- Travel
'4, 1, 2, 5, 3' is the correct dictionary order of the
following words.
Hence, option b.

15. **Solution: B**
The water image of the given figure is:
L 8 R @ d v % G F p

Hence, option b.
Solution: A
The logic followed here is shown below:

C	M	U
-3	-4	+5
Z	I	Z
-3	-4	+5
W	E	E
-3	-4	+5
T	A	J
-3	-4	+5
Q	W	O

'WEE' and 'QWO' will complete the given series.
The complete series is:
CMU, ZIZ, WEE, TAJ, QWO.
Hence, option a.

17. **Solution: A**
The logic followed here is:



Figure II is the mirror image of figure I, similarly, figure
IV will be the mirror image of figure III.

So, the figure that will come in place of '?' is:



The complete figure is:



Hence, option a.

Solution: D

The pattern followed here is:

$$11 + 7 = 18$$

$$18 + (7 + 2) = 18 + 9 = 27$$

$$27 + (9 + 4) = 27 + 13 = 40$$

$$40 + (13 + 6) = 40 + 19 = 59 \neq 55$$

$$59 + (19 + 8) = 59 + 27 = 86$$

$$86 + (27 + 10) = 86 + 37 = 123$$

'55' is the wrong term in the given series.

The complete series is:

11, 18, 27, 40, **59**, 86, 123

Hence, option d.

Solution: D

The logic followed here is as follows:

1) If the time is between 1 and 11, then to find the actual time, the given time is subtracted by 11:60.

2) If the time is between 11 and 1, then to find the actual time, the given time is subtracted by 23:60.

As, the time is between 11 and 1, so, the given time is subtracted by 23:60

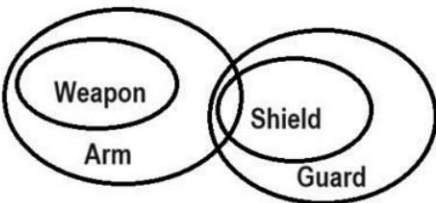
$$23:60 - 14:56 = 9:04\text{hrs.}$$

So, the correct time is 9:04hrs.

Hence, option d.

Solution: B

Following figures can be formed:



Conclusions:

I. Some Arm are Guard. Follow. (As, some Arm are Shield and all Shield are Guard, so, some Arm, which are Shield are also Guard.)

II. Some Guard are Shield. Follow. (As, all Shield are Guard, so, some Guard are definitely Shield.)

III. Some Weapon are Shield. Doesn't follow. (As, there is no direct relation between Weapon and Shield, so, no definite conclusions follow.)

Therefore, only conclusions I and II follow.

Hence, option b.

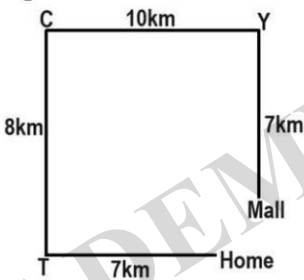
Solution: D

In all of the above options, country's name and country's official language is given except in option 'D'.

Hence, option d.

Solution: D

From the above information, we make the following diagram:



So, his Home is in the southwest direction with respect to the Mall.

Hence, option d.

Solution: D

Given equation:

$$120 + 6 - 1550 \times 5 \div 32 + 6 = ?$$

Equation after changing the signs,

$$120 \times 6 + 1550 \div 5 - 32 \times 6 = ?$$

LHS

$$= 120 \times 6 + 1550 \div 5 - 32 \times 6$$

On applying BODMAS rule, we get,

$$= 720 + 310 - 192$$

$$= 1030 - 192$$

$$= 838$$

$$? = 838$$

Hence, option d.

Solution: C

After decoding the code, we get:

R & M means R is the son of M

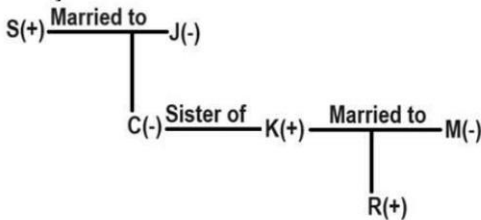
J % M means J is the mother-in-law of M

S # C means S is the father of C

C @ K means C is the sister of K

K # R means K is the father of R

From the above information, we make the following family tree:



Therefore, C is the sister-in-law of M.

So, only option 'C' is true.

Hence, option c.

Solution: C

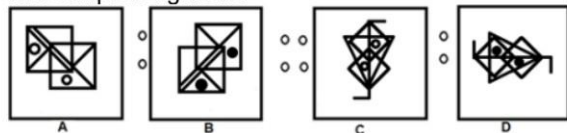
The logic followed here is:

Figure A is rotated 90° towards anticlockwise direction to get figure B. The circle inside figure B is shaded. Similarly, Figure C must be rotated 90° towards anticlockwise direction to get figure D. The circle inside figure D must be shaded.

So, the figure that will come in place of 'D' is:



The complete figure is:



Hence, option c.

Quantitative Aptitude

26. **Solution: C**

Amount paid by Sanju = $40,000 \times \left(\frac{100+18}{100}\right) \times \left(\frac{100+22}{100}\right) \times \left(\frac{100-50}{100}\right) \times$
 $= 40,000 \times 1.18 \times 1.22 \times 0.5 = \text{Rs. } 28792$
 Hence, option c.

27. **Solution: B**

In a 150 metres race between 'A' and 'B', 'A' beats 'B' by 6 metres. Which means the time is constant.
 Distance travelled by 'A' = 150 metres
 Distance travelled by 'B' = $150 - 6 = 144$ metres
 So, the ratio of the distance travelled by 'A' to that of 'B' = $150:144 = 25:24$

Since, time is constant therefore, ratio of speed of 'A' to that of 'B' will be same as the ratio of the distances covered by them.

So, the ratio of speed of 'A' to that of 'B' = $25:24$

In 240 metres race,

Speed of 'A' to that of 'B' = $25:24$

When one of them finishes the race, the other one will be behind the finish line.

When time is constant,

Speed Distance

So, the ratio of the distance covered by 'A' to that of 'B' = $25:24$

If the distance covered by 'A' is 240 metres.

So, the distance covered by 'B' = $(24/25) \times 240 = 230.4$ metres

Since 'B' gets a head start of 10 metres.

So, the distance at which 'B' reaches when 'A' finishes the race = $230.4 + 10 = 240.4$ metres

So, when 'B' covers a distance of 230 metres, it will finish the race.

Distance covered by 'A' when 'B' finishes the race

= $(25/24) \times 230 = 239.58$ metres

So, the distance by which 'B' beats 'A' = $240 - 239.58 = 0.42$ metres

Hence, option b.

28. **Solution: C**

$15a^2 + 1 = 20a$

Divide both sides by $5a$,

So, $(15a^2/5a) + (1/5a) = (20a/5a)$

Or, $3a + (1/5a) = 4$

Or, $\{3a + (1/5a)\}^2 = 4^2$

Or, $9a^2 + (1/25a^2) + 2 \times (3a) \times (1/5a) = 16$

Or, $9a^2 + (1/25a^2) + (6/5) = 16$

Or, $9a^2 + (1/25a^2) = 16 - (6/5)$

Or, $9a^2 + (1/25a^2) = (74/5)$

Hence, option c.

29. **Solution: C**

Simple interest = principal $\times$ rate $\times$ time $\div$ 100

ATQ;

$(2,400 \times 0.20 + 0.15 \times x) \times 6 = 3,060$

Or, $480 + 0.15x = 510$

Or, $0.15x = 30$

So, 'x' = 200

Hence, option c.

30. **Solution: A**

Let investments made by 'M' and 'N' be ₹'6x' and ₹'5x', respectively.

Let the time period for which 'N' invested the money be 'y' months.

So, $(6x \times 14) : (5x \times y) = (7/10)$

Or, $(84/5y) = (7/10)$

So, 'y' = 24

Hence, option a.

31. **Solution: C**

Let the income of Sumit be ₹'100y'

Savings of Sumit = $0.2 \times 100y = ₹'20y'$

Income of Mohit = $1.2 \times 100y = ₹'120y'$

Savings of Mohit = $0.25 \times 120y = ₹'30y'$

Expenditure of Mohit = $120y - 30y = ₹'90y'$

So, $90y = 36,000$

Or, 'y' = 400

Therefore, savings of Sumit = $20 \times 400 = ₹8,000$

Hence, option c.

32. **Solution: A**

Angle made by diameter on circumference of the circle is 90° .

So, $\angle PAQ = 90^\circ$

Sum of each angle of a triangle is 180° .

So, $\angle PAQ + \angle PQA + \angle APQ = 180^\circ$

Or, $90^\circ + \angle PQA + 50^\circ = 180^\circ$

Or, $\angle PQA = 180^\circ - 140^\circ = 40^\circ$

Now, $\angle OAQ = 40^\circ$ {angles opposite to equal sides (OA and OQ are radii) of a triangle are equal}

We know that the line joining the tangent of a circle to centre is perpendicular to tangent.

So, $\angle OAC = 90^\circ$

Therefore, $\angle QAC = \angle OAC - \angle OAQ = 90^\circ - 40^\circ = 50^\circ$

33. **Solution: D**

We know that $\sin 0^\circ = 0$

So, $\sin 80^\circ \sin 70^\circ \sin 60^\circ \dots \times 0 = 0$

Hence, option d.

34. **Solution: A**

Initial quantity of milk in the mixture = 0.90×320

= 288 litres

So, the initial quantity of water in the mixture = $320 - 288 = 32$ litres

Final quantity of water in the final mixture = $(3/4) \times (3/4) \times 32 = 13.5$ litres

So, the quantity of milk in the final mixture = $320 - 13.5 = 306.5$ litres

Hence, option a.

35. **Solution: D**

Number of matches won by Pakistan = 60% of 75

= $(0.6) \times 75 = 45$

Number of matches lost by England = $(100 - 75) \%$ of 84 = $(0.25) \times 84 = 21$

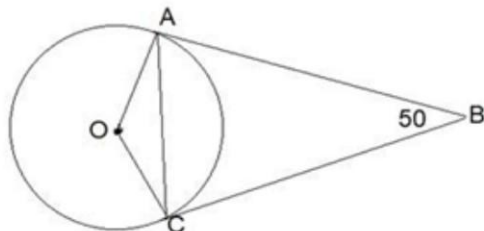
So, required ratio = $(45:21) = 15:7$

Hence, option d.

36. **Solution: D**

Amount received from scheme 'A' = $2880 + 2880 \times (1/6) \times (5/2) = 2880 + 1200 = ₹4,080$ [because, $16\frac{2}{3}\% = \frac{1}{6}$]
Interest received from scheme 'B' = $4080 \times (1/8) \times 4 = ₹2,040$ [because, $12.5\% = (1/8)$]
Hence, option d.

37. **Solution: B**



We know that the line joining the centre of the circle is perpendicular to the tangent drawn at the point of contact.

So, $\angle OAB = 90^\circ$ and $\angle OCB = 90^\circ$

We know that sum of all angles of a quadrilateral is 360° .

So, $\angle AOC = 360^\circ - (90^\circ + 90^\circ + 50^\circ) = 130^\circ$

Hence, option b.

38. **Solution: D**

Given, time = 2 hour = 120 minutes.

In normal speed he takes 120 minutes.

Now, speed is 1.5 times of his normal speed,

So, time taken to watch the same video = $(120/1.5) = 80$ minutes

Therefore, required percentage = $[(120 - 80) / 120] \times 100 = (100/3)\%$

Hence, option d.

39. **Solution: D**

On buying two shirts, customer gets one shirt free.

So, cost price of 3 shirts (2 + 1 free) = $3 \times 1,600 = ₹4,800$

Selling price of 2 shirts (shopkeeper gets price of 2 shirts) = $2 \times 2,700 = ₹5,400$

Profit earned = $5,400 - 4,800 = ₹600$

Required percentage profit = $(600/4,800) \times 100 = (1/8) \times 100 = 12.5\%$

Hence, option d.

40. **Solution: B**

'n' = 8, which is even

So, Median = $(1/2) \times [\text{sum of } (n/2)^{\text{th}} \text{ term and } \{(n/2) + 1\}^{\text{th}} \text{ term}]$

Or, $24.5 = (1/2) \times (2x + 2x + 1)$

Or, $49 = 4x + 1$

Or, $4x = 48$

So, 'x' = 12

Required value = $3 \times 12 = 36$

Hence, option b.

41. **Solution: C**

Let, the total work be LCM [12, 60] = 60 units

So, the efficiency of 'A' = $(60/12) = 5$ units/day

Sum of efficiency of 'A' and 'B' = $[60 \div (60/13)] = 13$ units/day

So, the efficiency of 'B' = $13 - 5 = 8$ units/day

So, the time taken by 'B' alone to finish the work = $(60/8) = 7.5$ days

Hence, option c.

42. **Solution: B**

Required ratio = $(180 + 160) : (360 + 200 + 250) = 340:810 = 34:81$

Hence, option b.

43. **Solution: C**

$$(\sin A + \cos A)^2 = \frac{5}{3}$$

$$\text{Or, } \sin^2 A + \cos^2 A + 2 \sin A \cos A = \frac{5}{3}$$

$$\text{Or, } 2 \sin A \cos A = \frac{5}{3} - 1$$

$$\text{Or, } 2 \sin A \cos A = \frac{2}{3}$$

$$\text{Required value} = 3 \times (2/3) = 2$$

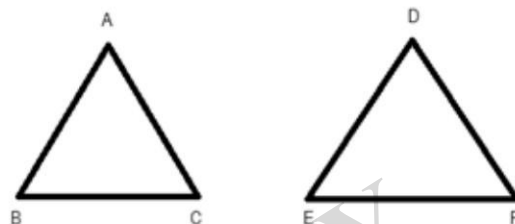
Hence, option c.

44. **Solution: C**

Number of apple mobile phones sold by company 'E' = $[7/(9 + 7)] \times 3200 = (7/16) \times 3200 = 1,400$

Hence, option c.

45. **Solution: D**



In $\triangle DEF$,

Let, $\angle DEF = \angle DFE = x^\circ$ (Given)

By angle sum property of triangle

$$\angle EDF + \angle DEF + \angle DFE = 180^\circ$$

$$70^\circ + x^\circ + x^\circ = 180^\circ$$

$$\text{Or, } 2 \times x^\circ = 110^\circ$$

$$\text{Or, } x^\circ = 55^\circ$$

$$\text{So, } \angle DEF = \angle DFE = x^\circ = 55^\circ$$

$\triangle ABC \sim \triangle DEF$, therefore, their corresponding angles will be equal.

$$\text{So, } \angle ACB = \angle DFE = x^\circ = 55^\circ$$

Hence, option d.

46. **Solution: D**

Area of rectangle = length $\times$ breadth

$$\text{So, length of rectangle} = (1,125/25) = 45 \text{ cm}$$

$$\text{Side of square} = 0.6 \times 45 = 27 \text{ cm}$$

$$\text{Diagonal of square} = (\text{side of square}) \times \sqrt{2} = 27\sqrt{2} \text{ cm}$$

Hence, option d.

47. **Solution: B**

$$\text{We have, } (k + 1) \cos 60^\circ - \sin 60^\circ \tan 60^\circ = k(\tan^2 45^\circ) + \csc 60^\circ - \sec 30^\circ$$

$$\text{Or, } (k + 1) \times (1/2) - (\sqrt{3}/2) \times (\sqrt{3}) = k \times (1) + (2/\sqrt{3}) - (2/\sqrt{3})$$

$$\text{Or, } \{(k + 1)/2\} - (3/2) = k$$

$$\text{Or, } k + 1 - 3 = 2k$$

$$\text{Or, 'k' = -2}$$

$$\text{Required value} = 2 \times (-2) = -4$$

Hence, option b.

48. **Solution: B**

$$x^2 + y^2 + 2 \times \left\{ \frac{x^2 + y^2 + z^2 + 2xy + 2yz + 2zx}{(x+y+z)^2} \right\} \times xy$$

$$\text{We know that } (x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$$

$$= x^2 + y^2 + 2 \times \left\{ \frac{(x+y+z)^2}{(x+y+z)^2} \right\} \times xy$$

$$= x^2 + y^2 + 2xy$$

$$\text{We know that } x^2 + y^2 + 2xy = (x + y)^2$$

$$\text{So, simplified expression is } (x + y)^2$$

Hence, option b.

49. **Solution: B**

A number is divisible by 11 if the difference between sum of digits at even position and sum of digits at odd position is either 0 or divisible by 11.

23542: $(2 + 5 + 2) - (3 + 4) = 2$ which is neither 0 nor divisible by 11. So, 23542 is not divisible by 11

48235: $(4 + 2 + 5) - (8 + 3) = 0$ which is equal to 0.
So, 48235 is divisible by 11.

72992: $(7 + 9 + 2) - (2 + 9) = 7$ which is neither 0 nor divisible by 11. So, 72992 is not divisible by 11

35421: $(3 + 4 + 1) - (5 + 2) = 1$ which is neither 0 nor divisible by 11. So, 35421 is not divisible by 11

Hence, option b.

50. **Solution: C**

Area of triangle = $(1/2) \times \text{base} \times (\text{corresponding altitude})$

So, $(1/2) \times AB \times EC = (1/2) \times BC \times AD$

Or, $18 \times EC = 24 \times 12$

Or, $EC = (288/18)$

Or, $EC = 16$ cm

Hence, option c.

General Awareness

51. **Solution: B**

Ganesh Vasudev Mavalankar, popularly known as Dadasaheb, was born in November 1888 in Baroda (now Vadodara).

Key points:

- Mavalankar became the Speaker of the Provisional Parliament (1951) until the first general elections (1952). He was then chosen as the **Speaker for the First Lok Sabha in independent India on 15 May 1952**.

- As Speaker, he set up various committees like the Rules Committee, the Committee of Privileges, the Business Advisory Committee, the Committee on Private Members Bills and Resolutions, and the Committee on Salaries and Allowances.

- He resigned from the Speaker role in January 1956.

- Jawaharlal Nehru referred to him as the 'Father of the Lok Sabha'.

52. **Solution: C**

Article 310 in Constitution of India deals with the Tenure of office of persons serving the Union or a State.

- Except as expressly provided by this Constitution, every person who is a member of a defence service or of a civil service of the Union or of an all-India service or holds any post connected with defence or any civil post under the Union, holds office during the pleasure of the President, and every person who is a member of a civil service of a State or holds any civil post under a State holds office during the pleasure of the Governor of the State.

- Notwithstanding that a person holding a civil post under the Union or a State holds office during the pleasure of the President or, as the case may be, of the Governor of the State, any contract under which a person, not being a member of a defence service or of an all-India service or of a civil service of the Union or a State, is appointed under this Constitution to hold such a post may, if the President or the Governor as the case may be, deems it necessary in order to secure the services of a person having special qualifications, provide for the payment to him of compensation, if before the expiration of an agreed period, that post is abolished or he is, for reasons not connected with any misconduct on his part, required to vacate that post.

53. **Solution: B**

Gobind Sagar Lake is a reservoir situated in Una and Bilaspur districts of **Himachal Pradesh**, India.

It is formed by the Bhakra Dam.

The reservoir is on the river Sutlej and is named in honour of Guru Gobind Singh, the tenth Sikh guru.

54. **Solution: D**

World Consumer Rights Day is observed annually on **15th March** to safeguard consumer rights and to ensure that customers are not subjected to market exploitation or social injustice that may jeopardize their rights.

Theme 2024: "Fair and responsible AI for consumers" In 1983, the first World Consumer Rights Day was celebrated.

Note: National Consumers Rights Day is observed annually across India on 24th December.

55. **Solution: B**

"Adhai Din Ka Jhonpra" is a historical mosque in the city of Ajmer in **Rajasthan**, India.

It is one of the oldest mosques in India, and the oldest surviving monument in Ajmer.

It was commissioned by Qutb-ud-Din-Aibak.

56. **Solution: C**

Kuno National Park is a national park and Wildlife Sanctuary in **Madhya Pradesh**, India. It derives its name from Kuno River. It was established in 1981 as a wildlife sanctuary. In 2018, it was given the status of a national park.

It is part of the Khatiar-Gir dry deciduous forests ecoregion.

Cheetah 'Gimini' has recently given birth to five cubs in Kuno National Park in Madhya Pradesh.

57. **Solution: C**

Eden Gardens is an international cricket stadium in **Kolkata**, India. It was established in **1864**, it is the oldest and second-largest cricket stadium in India and third largest in the world.

The stadium currently has a capacity of 68,000.

It is owned and operated by **Cricket Association of Bengal (CAB)** and is the home ground of the Kolkata Knight Riders.

58. **Solution: A**

Malta officially the Republic of Malta is an island country in **southern Europe**.

Malta has become the 119th country to join the International Solar Alliance (ISA). The ISA is an alliance of more than 120 signatory countries that aims to reduce the dependence on non-renewable sources of energy like fossil fuels.

International Solar Alliance (ISA) :

ISA was conceptualized on the sidelines of the 21st Conference of Parties (COP21) to the United Nations Framework Convention on Climate Change (UNFCCC) held in Paris in 2015. It is a joint effort by India and France. The ISA was recognized as a multilateral treaty by the UN, which came into force on December 6, 2020.

The ISA aims to deploy 1000 GW of solar capacity by 2030.

59. **Solution: D**

Buying and selling of goods is termed trade. But there are a lot of activities involved between this buying and selling, which are known as **auxiliaries to trade or aids to trade**.

These include transport, banking, warehousing, insurance, advertising, salesmanship, mercantile agents, etc. Thus, commerce includes both trade and auxiliaries to trade.

60. **Solution: C**

A **tendon** is a fibrous connective tissue that attaches muscle to bone.
· Tendons may also attach muscles to structures such as the eyeball.
· A tendon serves to move the bone or structure.

61. **Solution: B**
Brahmo Samaj was founded by **Raja Rammohan Roy** in 1828 at Calcutta.

Brahmo Samaj is the societal component of Brahmoism, which began as a monotheistic reformist movement that appeared during the Bengal Renaissance.

62. **Solution: B**
Klinefelter syndrome: A genetic condition in which a male is born with an extra copy of the **X chromosome**.

- Klinefelter's syndrome isn't inherited, but rather occurs only as a result of a random genetic error after conception.
- It occurs due to meiotic nondisjunction of chromosome.
- Males born with Klinefelter's syndrome may have low testosterone and reduced muscle mass, facial hair and body hair.
- Most males with this condition produce little or no sperm.
- Treatment may include testosterone replacement and fertility treatment.

63. **Solution: B**
Lok Adalat is a statutory organization under the Legal Services Authorities Act, 1987, and was created as an alternative dispute resolution mechanism used in India to resolve disputes/grievances outside courts.

- It is a forum where cases pending on panchayat, or at a pre-litigation stage in a court of law, are settled.
- Under this Act, the award (decision) made by the Lok Adalats is deemed to be a civil court case and is final and binding on all parties.

Note: The first Lok Adalat was held in Gujarat in 1982.

64. **Solution: B**
The **National Institute of Hydrology** is a premier research organization working in the area of Hydrology and water resources in India. The institute was founded on 16th December 1978 as an autonomous body registered under the Registration of Societies Act of 1860 under the Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation), Govt. of India at **Roorkee**.

65. **Solution: C**
Example of constitutional bodies:
· Finance Commission
· Attorney General of India
· Union Public Service Commission (UPSC) and State Public Service Commission
· Comptroller and Auditor General of India

66. **Solution: C**
The Jamat Khana Masjid or Khilji Mosque is the earliest mosque in Delhi that continues to be used for worship.
It was built by **Khizr Khan**, son of Sultan Alauddin Khilji (Khilji Dynasty) in 1315-1325 AD.
The mosque is the largest structure in the Nizamuddin Basti Dargah enclosure (Nizam-ud-Din Auliya Shrine Complex).

67. **Solution: D**

The International Day for Monuments and Sites (ICOMOS), also known as World Heritage Day, is an international observance held on **18th April** each year around the world with different types of activities, including visits to monuments and heritage sites, conferences, round tables, and newspaper articles.
Theme: "Disasters & Conflicts Through the Lens of the Venice Charter".

68. **Solution: B**
Dadabhai Naoroji also known as the "Grand Old Man of India" and "Unofficial Ambassador of India", was an Indian political leader, merchant, scholar, and writer who served as 2nd, 9th, and 22nd President of the Indian National Congress from 1886 to 1887, 1893 to 1894 and 1906 to 1907. Dadabhai Naoroji was born in Navsari into a Gujarati-speaking Parsi Zoroastrian family.

Works:
· Started the Rast Goftar Anglo-Gujarati Newspaper in 1854.
· Poverty And Un-British Rule in India is a monumental work by the Dadabhai Naoroji.

69. **Solution: C**
United Nations Environmental Programme (UNEP):
The United Nations Environment Programme (UNEP) is responsible for coordinating responses to environmental issues within the United Nations system. It was established by Maurice Strong, its first director, after the United Nations Conference on the Human Environment in Stockholm in **June 1972**.

Headquarters: Nairobi, Kenya

70. **Solution: C**
The **Treaty of Paris** was signed on September 3, 1783, between the American colonies and Great Britain, ended the American Revolution and formally recognized the United States as an independent nation.

71. **Solution: C**
Adventure sports or extreme sports are activities undertaken through the medium of Land, Water and Air and perceived as involving a high degree of risk. These activities often involve speed, height, a high level of physical exertion and highly specialized gear.
· Land Based: Mountaineering, Trekking, Rock Climbing, Sport Climbing, Camping, Snow Skiing, Mountain Biking and **Zipline**.
· Air Based: Paragliding, Powered Hang gliding, Parasailing, Sky Diving/Parachuting and Hot Air Ballooning.
· Water Based: White Water: Rafting, Kayaking and Canoeing. Still water (Pond/Lakes) : Canoeing, Water/Jet Skiing, Kayaking, Sailing and Rowing.

72. **Solution: B**
Former President of **Sri Lanka**, Gotabaya Rajapaksa, has authored a book titled **'The Conspiracy to Oust Me from the Presidency'** which speaks about his political downfall to a "conspiracy" involving foreign and local parties.

73. **Solution: C**

Name	Formula
Cane sugar	C ₁₂ H ₂₂ O ₁₁
Glucose	C ₆ H ₁₂ O ₆
Ethylene	C ₂ H ₄
Alcohol	C ₂ H ₅ (OH)

74. **Solution: B**

Sunil Bharti Mittal, Chairman and founder of Bharti Enterprises, has become the **first Indian citizen** to receive an **Honorary Knighthood** from **United Kingdom's King Charles III**.

The award grants him the title of Knight Commander of the Most Excellent Order of the British Empire, recognising his contributions to fostering stronger business ties between India and the UK.

An honorary Knighthood is one of the highest honours granted by the British Sovereign to civilians, conferred upon foreign nationals in recognition of their exceptional contributions.

75. **Solution: C**

Article 24 of the Indian Constitution pertains to the prohibition of child labor. It aims to protect the rights and welfare of children by prohibiting their employment in certain hazardous occupations or processes.

No child below the age of **fourteen years** shall be employed to work in any factory or mine or engaged in any other hazardous employment.

English Language

76. **Solution: D**

D is the grammatically correct sentence. Thus, D is the right answer.

A: The structure AS MUCH STIMULATION AS should be used instead of MUCH STIMULATION AS. We use 'as....as' to show the similarity of one thing to another.

B: Replace OPERATES with OPERATE as BRAINS is a plural noun and therefore should be followed by a plural verb.

C: Replace DOES NOT REQUIRES with DO NOT REQUIRE as use of plural verbs DO and REQUIRE should be done with a plural noun INTROVERTS.

77. **Solution: A**

We need a sentence that gives the meaning of seeing it from a lot of places in Nepal. The option in A can be the substitute of the given words. Thus, A is the right answer.

B is incorrect, as POSSIBLY SEEN shows uncertainty.

C is incorrect, as WITH EASE adds unnecessary detail and alters the meaning of the sentence.

D is incorrect, as the passive voice construction CAN + BE + VERB will take the past participle form verb SEEN.

78. **Solution: D**

The correctly spelled word is ASSESS (to evaluate or estimate). Thus, D is the right answer.

79. **Solution: A**

The phrase "from next month onwards" is the correct way to indicate the starting point of the implementation of the new policy. Thus, A is the right answer.

The prepositions ON and ONTO are incorrect, which rules out the highlighted phrase and D. C is incorrect as it does not lend meaning to the sentence.

80. **Solution: C**

The word INCANDESCENT means giving off or reflecting much light. LUMINOUS (giving off light) will be the synonym of the given word. Thus, C is the right answer.

The other words have different meanings:

Modest - showing a moderate or humble estimate of one's merits, importance, etc.

Trait - a particular characteristic, quality, or tendency that someone or something has.

Preserve - to maintain something in its original or existing state.

81. **Solution: A**

We need an adjective to modify the noun EFFORT. DILIGENT (hard-working and thorough) will fit here contextually as the sentence talks about how the teacher praised her for the hard-working effort she put into the project. Thus, A is the right answer.

Dormant - inactive; asleep. Devious - deceitful. Rigid - inflexible.

82. **Solution: C**

The error lies in the use of the preposition. We always use the preposition TO with the verb ADHERE. Thus, C is the right answer.

83. **Solution: A**

We need a past participle form of verb to fit in the perfect infinitive construction TO + HAVE + VERB. The sentence would then read, "The former Australian captain was one of the toughest men to have played the game". Thus, A is the right answer.

84. **Solution: B**

The idiom KEEP AN EYE ON means to watch or monitor closely. Thus, B is the right answer.

85. **Solution: C**

We need a base form verb to fit in the TO + VERB infinitive construction. Err (to make a mistake) will fit here as the sentence seeks to convey that individuals making mistakes under pressure is a common occurrence. Thus, C is the right answer.

Heir (noun) - a person who inherits property or a title from someone else. Ere (conjunction) - before in time.

Air (noun) - the mixture of gases that forms the earth's atmosphere.

86. **Solution: B**

UNPRECEDANTED is incorrectly spelled. The correct spelling of the word is UNPRECEDENTED (never done or known before). Thus, B is the right answer.

The other words are correctly spelled:

Envoy - a messenger or representative, especially one on a diplomatic mission.

Cordial - showing or marked by warm and often hearty friendliness, favour, or approval.

Consolation - the comfort received by a person after a loss or disappointment.

87. **Solution: A**

The word PLEASANT means enjoyable, attractive, friendly, or easy to like. CONGENIAL (friendly and pleasant) will be the synonym of the given word. Thus, A is the right answer.

The other options have different meanings:

Portend (verb) - to be a sign or warning that something is likely to happen.

Inflammatory - likely to excite strong feelings, esp. of anger.

Cryptic - mysterious and difficult to understand.

88. **Solution: A**

The sentence is in the indicative mood and active voice. Follow the rules below to convert a sentence in the indicative mood to passive voice:

I. The subject clause will become the object clause. Here, the subject pronoun THE CHEF will change to the object, and the object A SPECIAL DISH will change into the subject and begin the sentence.

- II. Replace MIGHT COOK with MIGHT BE COOKED.
The passive voice construction for simple future tense is MIGHT + BE + VERB.
III. Insert the conjunction BY before THE CHEF.
Option A is the right answer.
89. **Solution: C**
The word "persuasive" means having the ability to convince someone to do or believe something. In the context of the paragraph, it describes the effect of the politician's words. CONVINCING is its synonym.
Thus, C is the right answer.
Lasting - permanent; long-lived.
Intimidating - frightening; threatening.
Contemplative - thoughtful.
90. **Solution: B**
The idiom LEAVE NO STONE UNTURNED means to do everything you can to achieve a good result. Thus, B is the right answer.
None of the other options convey the meaning of the given idiom.
91. **Solution: B**
The word DISPUTABLE means not established as a fact, and so open to question or debate. IRREFRAGABLE (not able to be refuted or disproved; indisputable) will be the antonym of the given word.
Thus, B is the right answer.
The other options have different meanings:
Unrestrained - not limited or controlled.
Imprecise - not accurate or exact.
Veridical - showing what is true or real.
92. **Solution: D**
The correct order of the given parts of the sentence is BDEAC. BD is a mandatory pair. B begins the sentence by establishing the main idea - there is an increase in carbon emissions resulting from human activities (continued by D) . E follows D. It explains the consequences of carbon emission - it accelerates global warming. AC is another mandatory pair and follows E. A adds another aspect, there is also an increase in the series of environmental consequences (continued by C) . Thus, D is the right answer.
93. **Solution: C**
The given sentence is in the active voice.
Follow the rules below to change this sentence to the passive voice:
I. HIM, which refers to SANJAY, will become the subject of the sentence.
II. The present continuous tense construction IS SCOLDING will change to IS BEING SCOLDED.
III. The preposition BY will be added, and HIS MOM will become its object.
Thus, C is the right answer.
94. **Solution: C**
In C, replace the verb COMPLIES with COMPLY as the "organization's policies" is a plural subject, and the verb should agree with it. Thus, C is the right answer.

95. **Solution: A**
A person who is skilled in making or repairing locks is known as a LOCKSMITH. Thus, A is the right answer.
Blacksmith - a person who works with iron and steel.
Silversmith - a person who makes articles of silver.
Wordsmith - a person who creates and uses words skillfully.
96. **Solution: C**
We need a preposition to connect the noun phrase 'a Saturday night' with the rest of the sentence before the blank. ON (used for indicating time during which an event takes place) will fit here, as the phrase 'a Saturday night' is a time reference and has been used in the sentence to convey the time when Richard M. Fierro was at a table in the nightclub with his family.
Thus, C is the right answer.
Both IN and AT are also used for indicating time but with the name of week days, use of preposition ON is done. By: Indicates the means or method used to accomplish something.
97. **Solution: C**
We need a NOUN to be modified by the adjective SUDDEN . FLASH (burst of bright light) will fit here, as the sentence here tells us about the sudden sight of bright light that accompanied the gunfire in the nightclub. Thus, C is the right answer.
Lightning- the flashing of light produced by a discharge of atmospheric electricity. Gist- the main part of something. Dash- a quick movement.
98. **Solution: A**
We need an adverb to modify the phrasal verb KICK IN. INSTANTLY (quickly) will fit here. Thus, A is the right answer.
Loudly- with a high volume. Carefully- with attention to detail. Accurately- with precision.
99. **Solution: D**
We need a NOUN to be modified by the definite article THE. The sentence seeks to convey that Richard M. Fierro rushed forward in the direction of the gunman through the confused and disordered crowd of people in the nightclub. CHAOS (a situation of complete disorder and confusion) will fit in here.
Thus, D is the right answer.
Accident- an unfortunate event that happens unexpectedly and unintentionally. Visit- a short stay.
Event- something that happens.
100. **Solution: B**
We need a verb that is identical in form to the other verb CHARGED in the sentence, as verbs joined with AND are identical in form. The sentence talks about the action Fierro took against the gunman. TACKLED (attacked or dealt with something) will fit here to convey that Fierro attacked and made the gunman fall to the ground. Thus, B is the right answer.
Tapped (past tense of tap) - to strike lightly.
Succeeded (past tense of succeed) - to achieve the desired result. Sublet (verb) : to lease or rent (a property) to someone else.