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SSC CHSL Pre

Solution

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General Intelligence and Reasoning

1. **Solution: C**
The logic followed here is as follow:
K a S d r / K a S d r / K a S d r
So, 'a, S, K, d, a, r' will complete the series.
So, the complete series is:
K a S d r K a S d r K a S d r
2. **Solution: D**
After replacing the numbers given in option 'A' with the letters given in the table, we get:

2	1	4	5	3	6
L	A	C	H	N	U

'LACHNU' is not a meaningful word.
After replacing the numbers given in option 'B' with the letters given in the table, we get:

3	4	2	1	6	5
N	C	L	A	U	H

'NCLAUH' is not a meaningful word.
After replacing the numbers given in option 'C' with the letters given in the table, we get:

3	1	2	4	5	6
N	A	L	C	H	U

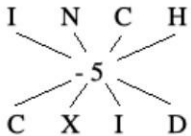
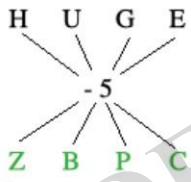
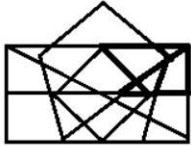
'NALCHU' is not a meaningful word.
After replacing the numbers given in option 'D' with the letters given in the table, we get:

2	1	6	3	4	5
L	A	U	N	C	H

'LAUNCH' is a meaningful word.
3. **Solution: C**
All numbers are composite numbers except for '313', which is a prime number.
4. **Solution: C**
All are cities of different states except for Kohima, which is a capital city of one of the states of India.
5. **Solution: B**
Here, the pattern is:
Option (a) 6 : 96 : 24
 $6 \times 4 = 24$; $24 \times 4 = 96$.
Option (b) 2 : 40 : 8
 $2 \times 4 = 8$; $8 \times 4 = 32$. So, option (b) is odd from the rest.
Option (c) 11 : 176 : 44
 $11 \times 4 = 44$; $44 \times 4 = 176$.
Option (d) 15 : 240 : 60
 $15 \times 4 = 60$; $60 \times 4 = 240$.
6. **Solution: A**
The paper when unfolded will look as follows:

7. **Solution: C**
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 1 and 11, so, the given time is subtracted by 11:60.
 $11:60 - 9:25 = 2:35$
So, the time shown in the clock is 2:35hrs.
For angle between hour hand and minute hand at 2:35hrs,
The logic followed here is as follows,

Hour hand makes an angle of 30° in one hour and an angle of 0.5° in one minute.
Similarly, minute hand makes an angle of 6° in one minute.
So, angle made by hour hand at 2:35hrs
 $= (2 \times 30 + 0.5 \times 35) = 60 + 17.5 = 77.5^\circ$
Similarly, the angle made by minute hand at 2:35hrs
 $= 35 \times 6 = 210^\circ$
So, the angle between the hour and minute hand at 2:35hrs
 $= 210^\circ - 77.5^\circ = 132.5^\circ$
Thus the time shown in the clock is 2:35hrs and the angle between the minute and the hour hand is 132.5° .

8. **Solution: A**

Similarly,

9. **Solution: D**
Tokyo is the capital city of Japan, and Paris is the capital city of France.
10. **Solution: A**
Family tree:
 $+L \quad -P$
 $| \quad |$
 $+M \quad -N \quad -O$
So, P is mother of N.
11. **Solution: D**
 $N + 6 = T$, $T + 6 = Z$, $Z + 6 = F$, $F + 6 = L$
 $T + 2 = V$, $V + 2 = X$, $X + 2 = Z$, $Z + 2 = B$
 $R + 8 = Z$, $Z + 8 = H$, $H + 8 = P$, $P + 8 = X$
So, next term is LBX.
12. **Solution: C**
The pattern in the series is multiplying the previous number by 2, 3, 2, and 3, respectively.
 $59 \times 2 = 118$
 $118 \times 3 = 354$
 $354 \times 2 = 708$
 $708 \times 3 = 2124$
Continuing the pattern:
 $2124 \times 2 = 4248$
13. **Solution: C**
The embedded pattern is:

14. **Solution: D**
Given:

1	2	3	4	5	6	7	8	9	10
U	N	D	E	R	S	T	A	N	D

From option [a], we get,

REDUNDANT is a meaningful word.

From option [b], we get,

DAUNTED is a meaningful word.

From option [c], we get,

DUSTED is a meaningful word.

From option [d], we get,

UNDEDA is not a meaningful word.

'1 2 10 4 3 8' is the combination of the numbers for the word which is not meaningful word.

15. **Solution: A**

The logic followed here is:

The second number is 7 more than the $(1/7)$ time of the first number.

In '119: 24':

$$= (119 \div 7) + 7$$

$$= 17 + 7$$

$$= 24$$

So, '119' is related to '24'.

In '154: 29':

$$= (154 \div 7) + 7$$

$$= 22 + 7$$

$$= 29$$

So, '154' is related to '29'.

In '231: ?':

$$= (231 \div 7) + 7$$

$$= 33 + 7$$

$$= 40$$

So, '231' is related to '40'.

16. **Solution: D**

Given equation:

$$[(1000 \times 580 \times 29 \times 480) \div 12] = 45$$

Substituting the symbols given in option 'A'

$$[(1000 + 580 \times 29 \div 480) - 12] = 45$$

Applying BODMAS rule, we get:

LHS:

$$= [(1000 + 580 \times 29 \div 480) - 12]$$

Cannot be determined as (580×29) is not completely divisible by 480.

So, LHS $\neq$ RHS

Substituting the symbols given in option 'B'

$$[(1000 \div 580 + 29 \times 480) - 12] = 45$$

Applying BODMAS rule, we get:

LHS:

$$= [(1000 \div 580 + 29 \times 480) - 12]$$

Cannot be determined as 1000 is not completely divisible by 580.

LHS $\neq$ RHS

Substituting the symbols given in option 'C',

$$[(1000 + 580 - 29 \div 480) + 12] = 45$$

Applying BODMAS rule, we get:

LHS:

$$= [(1000 + 580 - 29 \div 480) + 12]$$

As, 29 is not completely divisible by 480.

So, LHS $\neq$ RHS

Substituting the symbols given in option 'D'

$$[(1000 + 580 \div 29 - 480) \div 12] = 45$$

Applying BODMAS rule, we get:

LHS:

$$= [(1000 + 580 \div 29 - 480) \div 12]$$

$$= [(1000 + 20 - 480) \div 12]$$

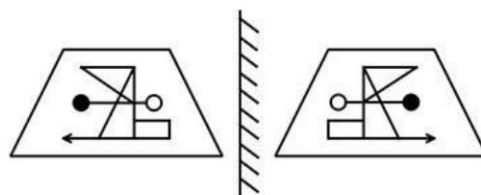
$$= [(1020 - 480) \div 12]$$

$$= 540 \div 12 = 45$$

LHS = RHS

17. **Solution: D**

Figure (IV) would resemble a mirror image of the given figure.



18. **Solution: C**

I. All C are E. (Not necessarily true, since only some C are D, and all D are E)

II. All D are C. (Not true, since only some C are D)

III. All E are D. (Not true, since only all D are E)

None of the conclusions logically follows the given statements.

19. **Solution: C**

By Interchanging signs:

$$72 + 19 \times 13 - 16 \div ? \times 15 + 7 = 266$$

$$\text{Or, } 72 + 247 - (16 \times 15) / ? + 7 = 266$$

$$\text{Or, } 326 - (16 \times 15) / ? = 266$$

$$\text{Or, } 326 - 266 = (16 \times 15) / ?$$

$$\text{Or, } 60 \times ? = (16 \times 15)$$

$$\text{Or, } ? = (16 \times 15) / 60$$

$$\text{So, } ? = 4$$

20. **Solution: B**

STADIUM

X | | | | X

TSADIMU

Similarly;

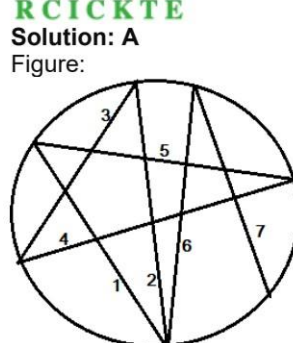
CRICKET

X | | | | X

RCICKTE

21. **Solution: A**

Figure:



So, minimum 7 lines are required to form the figure.

22. **Solution: B**

In figure 'a' and figure 'b', the common number is '12'.

In clockwise direction, the sequence will be (12, 14, 13) in figure 'a'.

In clockwise direction, the sequence will be (12, 16, 17) in figure 'b'.

So, we get, '14' is opposite to '16', '13' is opposite to '17'.

Thus, clearly, '12' is opposite to '15'.

23. **Solution: D**

$$BDF \Rightarrow B + 2 = D, D + 2 = F$$

$$IKM \Rightarrow I + 2 = K, K + 2 = M$$

$$UWY \Rightarrow U + 2 = W, W + 2 = Y$$

$$PRS \Rightarrow P + 2 = R, R + 2 = T \neq S$$

24. **Solution: C**

By interchanging 3 and 8:

$$\text{I. } 6 \div 2 \times 3 + 8 - 1$$

$$= 3 \times 3 + 7 = 16 \neq 17$$

$$\text{II. } 9 + 8 - 6 \div 2 \times 3$$

$$= 9 + 8 - 3 \times 3$$

$$= 9 + 8 - 8 = 9 \neq 6$$

Both equation I and II is not correct after the interchange.

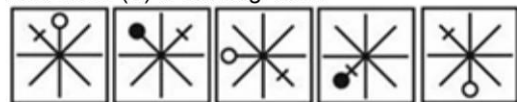
25. **Solution: C**

1st to 3rd image: White dot (o) is rotating 90° anticlock.

And cross (+) is rotating 180°.

3rd to 5th image: White dot (o) is rotating 90° anticlock.

And cross (+) is rotating 180°.



Quantitative Aptitude

26. **Solution: A**

$$9\sec^2 A - 5\tan^2 A = 21$$

$$\text{Or, } (9/\cos^2 A) - (5\sin^2 A/\cos^2 A) = 21$$

$$\text{Or, } 9 - 5\sin^2 A = 21\cos^2 A$$

$$\text{Using } \sin^2 x + \cos^2 x = 1$$

$$\text{Or, } 9 - 5\sin^2 A = 21(1 - \sin^2 A)$$

$$\text{Or, } 9 - 5\sin^2 A = 21 - 21\sin^2 A$$

$$\text{Or, } 16\sin^2 A = 12$$

$$\text{Or, } \sin^2 A = (12/16)$$

$$\text{So, } \sin^2 A = (3/4)$$

27. **Solution: C**

$$\text{Circumference of circle} = 2 \times \pi \times \text{radius}$$

$$\text{Area of circle} = \pi \times \text{radius}^2$$

Let the radius of circle be 'R' units.

$$\text{So, } \pi \times R^2 = 8 \times 2 \times \pi \times R$$

$$\text{Or, 'R' = 16}$$

$$\text{Therefore, diameter of circle} = 2 \times 16 = 32 \text{ units}$$

28. **Solution: D**

On taking 'x' = 2;

$$\text{Remainder} = 2^5 - 5 \times 2^4 + 3 \times 2^3 + 2 \times 2^2 + 9$$

$$= 32 - 5 \times 16 + 3 \times 8 + 2 \times 4 + 9$$

$$= 32 - 80 + 24 + 8 + 9 = -7$$

29. **Solution: D**

Total chocolate cakes sold on Mon and Tue together = 12% of 150 = 18

Total Vanilla cakes sold on Mon and Tue together = 20% of 150 = 30

Total Red velvet cakes sold on Mon and Tue together = 16% of 150 = 24

Total Black forest cakes sold on Mon and Tue together = 24% of 150 = 36

Total Strawberry cakes sold on Mon and Tue together = 28% of 150 = 42

$$\text{Total chocolate cakes sold on Mon} = 18 - 10 = 8$$

$$\text{Total Vanilla cakes sold on Mon} = 30 - 12 = 18$$

$$\text{Total Red velvet cakes sold on Mon} = 24 - 10 = 14$$

$$\text{Total Chocolate, Vanilla and Red velvet cakes together sold on Mon} = 8 + 18 + 14 = 40$$

$$\text{Total Red velvet, Black forest and Strawberry cakes together sold on Tue} = 10 + 20 + 18 = 48$$

$$\text{Required ratio} = 40 : 48$$

$$= 5 : 6$$

30. **Solution: C**

Let the breadth of the rectangle be 'x'.

Therefore, the length of the rectangle = (x+6).

$$\text{The perimeter of the rectangle} = 2(x+6+x)$$

$$= 4x + 12.$$

Half the perimeter is 30 cm.

$$\text{So, } 4x + 12 = 60.$$

Solving the equation, we get x = 12.

Therefore, length of the rectangle = (12+6)

$$= 18 \text{ cm}$$

$$\text{And its area} = (12 \times 18) = 216 \text{ cm}^2$$

31. **Solution: D**

$$x - y = 3$$

Squaring both side,

$$(x - y)^2 = 3^2$$

$$x^2 + y^2 - 2xy = 9$$

$$29 - 2xy = 9$$

$$2xy = 20$$

$$\text{Or, } 4xy = 40$$

32. **Solution: C**

Since hypotenuse is the largest among all three sides.

By applying Pythagoras theorem;

$$(x + 4)^2 = x^2 + (x - 4)^2$$

$$\text{Or, } x^2 + 16 + 8x = x^2 + x^2 + 16 - 8x$$

$$\text{Or, } 16x = x^2$$

$$\text{So, 'x' = 16}$$

33. **Solution: C**

Total weight = Average weight × Number of persons

$$\text{Total weight} = 60 \text{ kg} \times 20 = 1200 \text{ kg}$$

When a new person joins the group, the average weight becomes 59 kg for 21 persons.

$$\text{New total weight} = 59 \text{ kg} \times 21 = 1239 \text{ kg}$$

$$\text{Weight of new person} = \text{New total weight} - \text{Total weight}$$

$$= 1239 \text{ kg} - 1200 \text{ kg} = 39 \text{ kg}$$

34. **Solution: A**

$$\text{First discount} = 2400 \times 20/100 = ₹480$$

$$\text{Total discount} = 2400 - 1680 = ₹720$$

Second discount should be of ₹240.

$$\text{Required percentage} = 240 \times 100/(2400 - 480)$$

$$= 24000/1920$$

$$= 12.50\%$$

35. **Solution: D**

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

$$\text{So, } 24 \times 10 \times 16 \times M = 18 \times 7.5 \times 40 \times W$$

$$\text{Or, } 3,840 \times M = 5,400 \times W$$

$$\text{Or, } W:M = 384:540 = 32:45$$

36. **Solution: A**

$$3m + 7n = 7m - 3n$$

$$\text{Or, } 4m = 10n$$

$$\text{Or, } m:n = 10:4 = 5:2$$

$$\text{Let 'm' = '5k' and 'n' = '2k'}$$

$$\text{Required ratio} = (8 \times 5k - 5 \times 2k) : (2 \times 5k + 3 \times 2k)$$

$$= (40k - 10k) : (10k + 6k)$$

$$= 30:16 = 15:8$$

37. **Solution: B**

$$\text{Total quantity bought by 'A' and 'E' = 300 + 525}$$

$$= 825 \text{ kg}$$

$$\text{So, required percentage} = \{(825 - 600)/600\} \times 100$$

$$= 37.5\% \text{ more}$$

38. **Solution: D**

$$720 \div 9 + 616 \div 11 - 30 \times \sqrt{16} + 244 \div 4 \times 72 \div 36$$

$$= 80 + 56 - 120 + 61 \times 2$$

$$= 16 + 122$$

$$= 138$$

39. **Solution: B**

$$\text{LCM of 15 and 18} = 90$$

$$2139 = 23 \times 90 + 69$$

$$\text{Required number} = 90 - 69 = 21$$

40. **Solution: B**

Let the original number be N.

If the number is increased successively by 20% and 30%, the new value
 $= N \times 1.2 \times 1.3 = 1.56N$
 However, the number is decreased by 22%, So, the resultant value = 0.78N
 Required percentage = $(0.78N / 1.56N) \times 100 = 50\%$

41.

Solution: C

Median of equilateral $\Delta = (\sqrt{3} \times \text{side})/2$

$15\sqrt{3} = (\sqrt{3} \times \text{side})/2$

$30\sqrt{3} = (\sqrt{3} \times \text{side})$

So, Side = 30 cm

42.

Solution: A

$SI = (P \times R \times T) / 100$

$1600 = (P \times R \times 2) / 100$

$PR = 80000$ ----- (1)

Now, $CI = P[(1 + R/100)^2 - 1]$

$1760 = P(1 + R^2/10000 + 2R/100 - 1)$

$1760 = P(R^2/10000 + 2R/100)$

$1760 = PR(R/10000 + 1/50)$ --- (2)

Dividing equation 2 by equation 1,

$176/8000 = R/10000 + 1/50$

$\frac{R}{10000} = \frac{176}{8000} - \frac{1}{50}$

$\frac{R}{10000} = \frac{176-160}{8000}$

$\frac{R}{10000} = \frac{16}{8000}$

$\frac{R}{10} = \frac{16}{8}$

$R = 20\%$

But, $PR = 80000$

So, $P = 80000/20 = 4000$

43.

Solution: C

Ratio of the total sales of branch A for the year 2018

to the total sales of branch C for the year 2020 = 14 :

70 = 1: 5

44.

Solution: C

The tank is the shape of a cuboid

We know that volume of a cuboidal tank = Length $\times$

Breadth $\times$ Depth

Let the depth of the water in the tank be 'h' metres

ATQ:

$28800 = 720 \times h$

Or, $h = (28800/720) = 40$

Required depth = 40 metres

45.

Solution: B

$1200 \div 15 \times [45 \div (17 - 2)]$ of 2 + $[-2(1 + 2)]$

$= 1200 \div 15 \times [45 \div 15] \times 2 + [-2(3)]$

$= 80 \times [3] \times 2 + [-6]$

$= 480 - 6 = 474$

46.

Solution: C

Since the angle subtended by chord CD on the center

of the circle is 180° , the chord must be a diameter of

the circle.

Therefore, the length of chord CD

$= 2 \times \text{radius} = 2 \times 14 \text{ cm} = 28 \text{ cm}$

47.

Solution: C

The car covers 40 km in 24 minutes,

So, Speed = Distance / Time Speed

$= \frac{40 \text{ km}}{\frac{24}{60} \text{ hr}} = 100 \text{ km/hour}$

Now, the speed is decreased by 40 km/hour resulting

in a new speed of 60 km/h.

Now, Time = Distance / Speed

Time = $40/60 = 2/3$ hour = 40 minutes

48.

Solution: B

Let the present ages of the father, mother and son be

8x, 5x and 2x respectively.

Given that the present age of the father is 48 years.

Therefore,

$8x = 48$

$x = 6$

Hence, the present ages of the father, mother and son are $8x = 48$ years, $5x = 30$ years and $2x = 12$ years, respectively.

The average age of the family after 3 years

$= (48 + 30 + 12 + 3 + 3 + 3)/3 = 33$ years.

49.

Solution: A

$A = \frac{36 \div 18 \times 5}{36 \div (3 \times 4)} = \frac{10}{3}$

$B = \frac{5 \div 15 \times 5 + 6 \times 2 - 5}{15 \div 5 \times 25 - 2 \times 3 + 6} = \frac{5/3 + 12 - 5}{75 - 6 + 6}$

$= \frac{5/3 + 7}{75 - 6 + 6} = \frac{5/3}{75} = \frac{26}{3 \times 75}$

$A + B = 10/3 + 26/225 = \frac{750 + 26}{225} = 776/225$

50.

Solution: B

$8\cos^2 A + 3\sin^2 A = 9$

Or, $5\cos^2 A + 3\cos^2 A + 3\sin^2 A = 9$

Or, $5\cos^2 A + 3 \times (\cos^2 A + \sin^2 A) = 9$

Or, $5\cos^2 A + 3 = 9$ (Using, $\cos^2 A + \sin^2 A = 1$)

Or, $5\cos^2 A = 6$

Or, $\cos^2 A = (6/5)$

So, $\sec^2 A = (5/6)$ ($\sec$ is reciprocal of $\cos$)

Required value = $(5/6) - 1 = (-1/6)$

General Awareness

51.

Solution: A

Corals are invertebrates from the class **Anthozoa**

and phylum **Cnidaria**. They form reefs through

colonies of polyps that secrete limestone skeletons

and rely on symbiotic algae (zooxanthellae) for

nutrition. They are mainly found in shallow, sunlit

waters between 30°N and 30°S latitude, with a

preferred temperature range of $16\text{--}32^\circ\text{C}$.

Hence, Option A is the correct answer.

52.

Solution: C

Wholesale Price Index (WPI) :

WPI is used as a deflator of various nominal

macroeconomic variables including Gross Domestic

Product (GDP). The WPI-based inflation estimates

also serve as an important determinant, in the

formulation of trade, fiscal, and other economic

policies by the Government.

It is an indicator of the average price movement over

time of a fixed basket of goods at a wholesale stage.

It includes multiple counting bias. It **does not include**

indirect taxes.

Hence, Option C is the correct answer.

53.

Solution: B

The joint sitting of the Parliament is called by the

President of India (**Article 108**) and is presided over

by the Speaker of the Lok Sabha or, in their absence,

by the Deputy Speaker of the Lok Sabha, or in their

absence, the Deputy Chairman of the Rajya Sabha.

The first joint sitting of Lok Sabha and Rajya Sabha

was held in 1961.

Hence, Option B is the correct answer.

54.

Solution: B

X-rays are a form of electromagnetic radiation.

X-rays were discovered on the **8th November,**

1895 by the German physicist **Wilhelm Conrad**

Roentgen.

Hence, Option B is the correct answer.

55.

Solution: D

The **Mamita dance** is performed by the **Kaloi**

community of Tripura. It is considered as a harvest

festival. The dance is usually performed by women in

groups. This lively dance celebrates the bountiful

harvest and the connection between humans, nature, and sustenance.

Hence, option D is the correct answer.

56. **Solution: A**

· Reaction: $\text{CH}_3\text{CH}_2\text{OH}_{(l)} + \text{O}_{2(g)} \rightarrow \text{CH}_3\text{COOH}_{(aq)} + \text{H}_2\text{O}_{(l)}$

· Ethyl alcohol and oxygen produce acetic acid and water.

· Significance: Wine becomes sour with age and exposure to the air. This is due to the conversion of alcohol to acetic acid (vinegar).

57. **Solution: C**

Ice hockey: National Hockey League hockey is typically played on a standard-size rink shaped like a round-cornered rectangle that is 200 feet (61 metres) long and 85 feet (26 metres) wide. International rinks are usually 184 - 200 feet by 85 - 98 feet, and U.S. college rinks are typically.

58. **Solution: D**

The types of vetoes are:

1) Absolute Veto The power of the President to withhold assent to the bill is termed as his absolute veto.

2) Suspensive Veto The power of the President to return the bill to the Parliament with or without consideration is called a suspensive veto.

3) Pocket Veto The power of the President to not act upon the bill is termed as a pocket veto.

4) Qualified Veto: This can be overridden by the legislature with a higher majority. This is not enjoyed by the President of India.

59. **Solution: A**

One of the most famous Fatorpa Zatras of Goa is celebrated at the temple of Shantadurga Kuncolienkarin at Fatorpa in Quepem taluka. 'Kuncolienkarin' means 'from Cuncolim'.

During the festival, people from all over Goa, belonging to different religions, communities and castes come to worship the deity. The zatra is held for five days during December or January, during paushya shuddha panchami upto dashmi of the Hindu calendar.

The temple at Fatorpa is built in honor of the deity Parvati, also known as Shantadurga.

60. **Solution: C**

Makar Sankranti is a Hindu festival celebrated as a harvest festival. It typically occurs on January 14th each year, signifying the sun's transition from the zodiac sign of Sagittarius to Capricorn.

This festival marks the end of winter and the beginning of longer days.

The different names for Makar Sankranti in various Indian states are:

· Lohri in Punjab
· Pongal in Tamil Nadu
· Uttarayan in Gujarat

· **Mahara Chaula in Odisha**

· Magh Bihu in Assam

· **Suggi Habba in Karnataka**

· Poush Sankranti in West Bengal

· Shishur Sankrant in Jammu & Kashmir

· Pedda Panduga in Andhra Pradesh

Hence, Option C is the correct answer.

61. **Solution: A**

The contributions of the Vedic Aryans to architectural history include the use of wood along with bricks and

stones for building their houses. They hardly knew the use of burnt bricks.

Art forms of the time includes:- Weaving, leatherwork, pottery, and carpentry.

· **Potters** were referred to as **Kulala**, and **wool** was referred to as **Urna sutra**.

· Painted Greyware was the prominent pottery during this time period.

· Black Slipped Ware, Plain Grey Ware, and Black-and Red Ware were some other associated potteries of this period.

Hence, option A is the correct answer.

62. **Solution: D**

The Atal Innovation Mission (AIM) is the Government of India's flagship initiative to promote a culture of innovation and entrepreneurship in the country. It was set up in 2016 under NITI Aayog.

The initiatives of the AIM are **Atal Tinkering Labs, Atal Incubation Centres, Mentor India, Aatmanirbhar Bharat ARISE, Vernacular Innovation Program, Atal New India Challenge, and Atal Community Innovation Centre**.

DigiLocker is a flagship initiative of the Ministry of Electronics & IT (MeitY) under the Digital India program. It aims at the 'Digital Empowerment' of citizens by providing access to authentic digital documents to citizen's digital document wallets. It is a secure cloud-based platform for the storage, sharing, and verification of documents & certificates.

Hence, Option D is the correct answer.

63. **Solution: B**

The **Fourth Schedule of the Constitution of India** deals with the allocation of states for the Council of States. The allocation is based on the population of each state.

Hence, option B is the correct answer.

64. **Solution: B**

The **Shri Mata Vaishno Devi Shrine** is located in the **Reasi district** of Jammu and Kashmir. The shrine is located in the Trikuta Hills, at the base of which is the town of Katra. It has been managed by the Shri Mata Vaishno Devi Shrine Board since 1986.

Hence, Option B is the correct answer.

65. **Solution: B**

The bird **Kiwi** is the national symbol and icon of New Zealand. The name of the bird - Kiwi comes from the language of Maori (indigenous New Zealand people). It means "hidden bird".

66. **Solution: C**

Sabari is a tributary of river Godavari.

The major tributaries of the given rivers are:

Narmada river :Banjar River, Barna River, Hiran River and Tawa River.

Ganga : The Yamuna, the Ramaganga, the Gomti, the Ghagra, the Son, the Gandak, the Burhi Gandak, the Kosi and the Mahananda.

Godavari : Pravara, Purna, Manjra, Penganga, Wardha, Wainganga, Pranhita, Indravati, Maner and the Sabari.

Kaveri : Harangi, Hemavati, Arkavathi, Lakshmana Tirtha, Kabini, Bhavani, Noyyal, Amaravati, and Moyar

67. **Solution: A**

Specific terms are applied to interspecific interactions depending upon whether the interaction is beneficial, harmful or neutral to individuals of the species.

In Commensalism one of the species benefits while the other is neither harmed nor benefited. Some species obtain the benefit of shelter or transport from another species. For example sucker fish, remora often attaches to a shark by means of its sucker which is present on the top of its head. This helps remora get protection, a free ride as well as a meal from the left over of the shark's meal. The shark does not however get any benefit nor is it adversely affected by this association.

Further insights:

Mutualism is a type of symbiotic relationship in which both organisms benefit from the interaction.

Neutralism refers to a situation where two species interact but neither benefits nor is harmed. Essentially, they coexist without having any significant impact on each other.

Parasitism is a relationship where one organism benefits at the expense of the other. The parasite derives nourishment or another benefit from the host, often harming it in the process.

68. **Solution: A**

Rickets is a disease that is caused by a deficiency of Vitamin D. Vitamin D is essential for the absorption of calcium and phosphorus, which are necessary for the development and strengthening of bones. Deficiency of Vitamin D can lead to weak and deformed bones, especially in children.

Scurvy: A severe vitamin C deficiency, leading to weakness, bleeding gums, and poor wound healing.

Pellagra: A deficiency of niacin (vitamin B3), causing skin rashes, dementia, and diarrhea.

Beriberi: A deficiency of thiamine (vitamin B1), resulting in muscle weakness, heart problems, and neurological issues.

69. **Solution: A**

The Eastern hills or Purvanchal are the Southward extension of the Himalayas (Arakan Yoma, Naga hills, Patkaibum) form the land boundary separating Myanmar from India by the Irrawaddy River and **Patli hills are not** considered as the extension of the Himalayas as they are not geographically connected to the main Himalayan mountain system and are typically classified as a separate hill range.

Hence, option A is the correct answer.

70. **Solution: D**

The bricks were of identical **1:2:4 ratio** in terms of thickness, width, and length across all Harappan structures. The houses had bathrooms paved with burnt bricks and proper drains. For construction, people used bricks and stones. The houses were built of mud bricks and drainages of burnt bricks.

Hence, option D is the correct answer.

71. **Solution: C**

Pedalfer is a sub-division of the zonal classification of soil with high aluminum and iron oxides. It occurs in humid regions of the earth's surface. Pedalfers are usually very fertile, dark brown or black soil. A pedalfer is the dark, fertile type of soil that will form in a forested region.

72. **Solution: B**

Firoz Shah Tughlaq introduced two new coins **Adha** (50%jital) and **Bikh** (25%jital).

Sultan Firuz Shah Tughlaq was a Muslim ruler from the Tughlaq dynasty, who reigned over the Sultanate of Delhi from 1351 to 1388.

Hence, Option B is the correct answer.

73. **Solution: B**

The Shillong-Silchar Greenfield Corridor Project is a key strategic infrastructure initiative of Northeast India, which will provide better connectivity between Meghalaya and Assam. This 166.80 km long, 4-lane access-controlled corridor passes through mostly hilly terrain. The project will boost logistics, tourism, employment opportunities in the region as well as inter-state economic integration.

74. **Solution: C**

Recently, Union Home Minister Amit Shah unveiled a 9-foot-high statue of famous Bodo leader and social activist Bodofa Upendra Nath Brahma in New Delhi on the occasion of his 35th death anniversary. On this occasion, a road in Kailash Colony, Delhi was renamed "Bodofa Upendra Nath Brahma Marg". Assam Chief Minister Dr. Himanta Biswa Sarma and Delhi Chief Minister Rekha Gupta were also present at the event.

75. **Solution: A**

Jishnu Dev Varma assumed charge as the governor of Telangana. Telangana High Court Chief Justice Alok Aradhe administered the oath of office to Varma in Raj Bhavan.

Born on August 15, 1957, Varma, a senior BJP leader from Tripura, scion of the erstwhile Tripura royal family. He joined BJP in 1990 and participated in the Rama Janmabhoomi movement. Governors of Indian States(as on 10th January, 2025):

Andhra Pradesh: Syed Abdul Nazeer

Arunachal Pradesh: Lt. General Kaiwalya Trivikram Parnaik

Assam: Shri Lakshman Prasad Acharya

Bihar: Shri Arif Mohammed Khan

Chhattisgarh: Shri Ramen Deka

Goa: Shri P.S. Sreedharan Pillai

Gujarat: Shri Acharya Dev Vrat

Haryana: Shri Bandaru Dattatraya

Himachal Pradesh: Shri Shiv Pratap Shukla

Jharkhand: Shri Santosh Kumar Gangwar

Karnataka: Shri Thaawarchand Gehlot

Kerala: Shri Rajendra Vishwanath Arlekar

Madhya Pradesh: Shri Mangubhai Chhaganbhai Patel

Maharashtra: Shri C.P. Radhakrishnan

Manipur: Shri Ajay Kumar Bhalla

Meghalaya: Shri C H Vijayashankar

Mizoram: General (Dr.) Vijay Kumar Singh, PVSM, AVSM, YSM (Retd.)

Nagaland: Shri La. Ganesan

Odisha: Dr. Hari Babu Kambhampati

Punjab: Shri Gulab Chand Kataria

Rajasthan: Shri Haribhau Kisanrao Bagde

Sikkim: Shri Om Prakash Mathur

Tamil Nadu: Shri R. N. Ravi

Tripura: Shri Indra Sena Reddy Nallu

Uttar Pradesh: Smt. Anandiben Patel

Uttarakhand: Lt. Gen. Gurmit Singh, PVSM, UYSM, AVSM, VSM (Retd.)

West Bengal: Dr. C.V. Ananda Bose

English Language

76. **Solution: B**
The past tense verb ATTRACTED should be replaced with the base form verb ATTRACT to fit in the infinitive construction TO + VERB 1.
Thus, B is the right answer.
77. **Solution: B**
The given sentence is in active voice. To change it to passive voice, follow the given steps:
I. The object THIS TOPIC will become the subject and begin the sentence.
II. The verb HAVE USED will change to HAS BEEN USED in the passive voice. HAVE is changed to HAS to agree with the new subject THIS TOPIC.
III. The preposition BY will be added after the verb and MANY STUDENTS will become its object.
Thus, B is the right answer.
78. **Solution: B**
CONSENT means to agree to something. ASSENT (to agree) is the most appropriate synonym of the given word. Thus, B is the right answer.
AVERT: to prevent something from happening.
DISTURB: to interfere or interrupt.
DISSENT: to disagree.
79. **Solution: C**
Sentence B begins by mentioning the planning of the expedition, setting the context for what comes next. The team has been preparing for the journey, "leaving no stone unturned."
Sentence A follows logically after B because it elaborates on the explorers' determination. After months of planning, the team is set to face challenges, highlighting their commitment.
Sentence C continues the story by describing how the explorers dealt with these challenges. "Despite harsh conditions, they pressed on," which implies that they faced difficulties and continued forward.
Sentence D concludes the passage by showing that their persistence was rewarded when they discovered the long-lost ruins.
Therefore, the correct order is **BACD**.
Hence, option (c) is correct.
80. **Solution: A**
In the given sentence, it is stated that the amount to be paid as dues was reduced in the 1950s. The cent/s denotes a monetary value. So, the appropriate homonym in the current context is 'cent' which means 'one-hundredth of the dollar or other basic monetary unit of various nations'.
Hence, (a) is the correct answer.
Sent: to cause, permit, or enable to go
Saint: a person of great holiness, virtue, or benevolence
Scent: a pleasant distinctive odour
81. **Solution: C**
The sentence is in direct speech and in interrogative mood. Follow the instructions to change the sentence to indirect speech:
I. Remove the comma, question mark and inverted commas.
II. SAID TO will be replaced by ASKED. Add WHETHER or IF after the reporting speech clause, THE TEACHER ASKED HIM. In the indirect speech of interrogative sentences both the conjunctions WHETHER and IF can be used.
- III. The present tense verb ARE will change to the past tense verb WAS to agree with the singular pronoun HE.
IV. The second person pronoun YOU will change to the third person pronoun HE. Also, the interrogative structure, HELPING VERB + SUBJECT (ARE YOU) will change into assertive sentence structure, SUBJECT + HELPING VERB (HE WAS).
Thus, C is the right answer.
82. **Solution: D**
CADEB is the correct order of the sentences in the paragraph. C starts the paragraph by telling us about the confirmation of the 19th case of highly pathogenic avian influenza at an egg farm in South Korea's central region of North Chungcheong Province. A follows C by giving a more specific location where this case was detected: at a layer hen farm in Eumseong county. D follows A by telling us that the owner of the farm first reported an increase in deaths among the livestock, after which the case was revealed. EB follows D as a mandatory pair. E tells us that the authorities have contained the area and decided to kill around 44,000 chickens raised at the farm and B follows by telling us about further actions to be taken by authorities regarding this incident.
Thus, D is the right answer.
83. **Solution: C**
The sentence in C is grammatically correct. Thus, C is the right answer.
The remaining sentences are incorrect.
In A, the relative pronoun WHICH should be replaced with WHO to refer back to the noun ONE, meaning one employee.
In B, the singular noun EMPLOYEE should be replaced with EMPLOYEES, as the structure ONE OF THE is followed by a plural noun.
In D, the base form verb HELP should be replaced with the past tense verb HELPED to fit in the past tense structure of the sentence.
84. **Solution: D**
APPOSITE and PERTINENT are synonyms. APPOSITE means suitable and right for the occasion. PERTINENT has the same meaning. Thus, D is the right answer.
Mandatory - compulsory. Complicated - involving a lot of different parts, in a way that is difficult to understand. Ferocious - very aggressive and violent.
85. **Solution: D**
Something that is certain to happen is called INEVITABLE.
Thus, D is the right answer.
JUSTIFIABLE: existing or done for a good reason.
INDISPENSABLE: necessary.
CONVERTIBLE: that can be changed.
86. **Solution: A**
Follow the rules below to change this sentence to the passive voice:
I. The object A DIFFERENT STRATEGY will become the subject and begin the sentence.
II. TO ADOPT will change into TO BE ADOPTED to fit in the passive voice structure.
III. The preposition BY will be added and THEY will change into THEM to become its object.
Thus, A is the right answer.
87. **Solution: A**
'Mobile' means 'able to move or be moved freely or easily'.

'Standing' means 'to be in a vertical state or to put into a vertical state, especially (of a person or animal) by making the legs straight'.
So, both are antonyms of each other.
Hence, option (a) is the answer.

88. **Solution: B**

The error is in part B. The base form verb HELP should be replaced with its third-person singular form HELPS so that is of the same form as the other verb REJUVENATES. Verbs joined with NOT ONLY.. BUT ALSO are identical in form.
Thus, B is the right answer.

89. **Solution: D**

QSPR is the correct sequence of the given jumbles. Q begins the paragraph by telling us that after five years of uncertainty and chaos, the condition of the U.S. economy is getting better. SP follows Q as a mandatory pair to describe how this is happening: with reduction in inflation, unemployment rate, interest rates cut by the Federal Reserve and no signs of the much anticipated recession. R concludes to describe how this stability is still questionable due to elections.
Thus, D is the right answer.

90. **Solution: A**

WHO ARE is the correct phrase, as WHO is a relative pronoun and the verb coming after it agrees with the noun the relative pronoun refers back to. In this case, WHO refers back to the plural noun GIRLS and therefore we will use the plural verb ARE.
Thus, A is the right answer.

B and D are incorrect because the sentence talks about an event that will happen in the future and the likelihood of its occurrence still exists in the present.

91. **Solution: A**

NEFEW is incorrectly spelled. The correct spelling of the word is NEPHEW (the son of your brother or sister, or the son of your husband's or wife's brother or sister).

Thus, A is the right answer.

92. **Solution: C**

The blank requires an adjective to describe the noun 'crackle' (a sound made up of a rapid succession of short sharp noises). The word refers to high pitch noises. Among the given options, only the adjective 'loud' (producing or capable of producing much noise) can be used to describe the word 'crackle'. Others don't provide a coherent sentence.

Hence, option (c) is the correct answer.

Gentle: having or showing a mild, kind, or tender temperament or character.

Low: below average in amount, extent, or intensity.

Soft: having a pleasing quality involving a subtle effect or contrast rather than sharp definition.

The correct sentence is: The crowing witch released loud crackle as she turned the boy into a beast.

93. **Solution: D**

BURY THE HATCHET means to end a quarrel or fight and become friends again.

Thus, D is the right answer.

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

94. **Solution: D**

The word DISPARITY refers to a difference, especially one that is caused by unfair treatment. The word SIMILARITY (the state of being like somebody or something) will be the antonym of the given word.
Thus, D is the right answer.

Ambiguity - the possibility of being understood in more than one way. Likeability - the quality of being easy to like. Capacity - the ability to understand or do something.

95. **Solution: D**

The error is in part D. The adjective SURE should be replaced with SURELY to modify the verb REPAY.

Thus, D is the right answer.

96. **Solution: C**

"Hassle of parking" is a common expression referring to inconvenience or annoyance.

"Headache" is metaphorical and possible but less formal than "hassle."

"Load" is inappropriate; it refers to weight or burden, not difficulty.

"Concern" is too mild and general.

97. **Solution: C**

"Combustion engine vehicles" is the correct technical term for vehicles powered by internal combustion engines.

"Exploding" and "erupting" are inappropriate and nonsensical in this context.

"Ignition" relates to starting the engine, not the engine type itself.

98. **Solution: B**

"Attracts more cars" fits logically — more roads draw in more vehicles.

"Invites" is similar but less precise in urban planning language.

"Provokes" is aggressive in tone and doesn't fit the context.

99. **Solution: B**

The correct phrase is "in a bid to" (meaning "in an attempt to").

"In a bid for" is sometimes used, but only when followed by a noun (e.g., "a bid for power").

"In a bid with" or "in a bid in" are incorrect.

100. **Solution: D**

"Varied" means showing variety, which fits the sentence comparing different approaches and outcomes.

"Various" is typically used before a noun (e.g., "various methods"), not after "as".

"Scattered" implies disorganization, not diversity.

"Wide" needs a following noun like "range" to be correct.