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Rajnish Bhatnagar

SSC CGL Pre

Solution

SCP-9I2994609-E



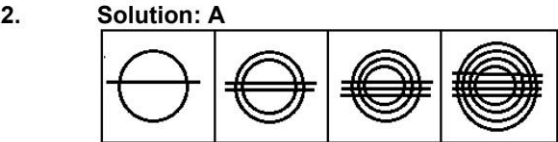
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General Intelligence and Reasoning

1. **Solution: B**
Here, the pattern is:
 $16 + 4$ (i.e., 2^2) = 20
 $20 + 2 = 22$
 $22 + 9$ (i.e., 3^2) = 31
 $31 + 3 = 34$
 $34 + 16$ (i.e., 4^2) = 50
So, $50 + 4 = 54$



So, option figure (II) is the correct answer.

3. **Solution: D**
Here, we see that CLOCK is related to NFROF in the way same as others. Hence, 'd' is the correct option.

The letters are reversed and each letter is replaced by the 3rd letter following (T + 3 = W)
TABLE = ELBAT = = HOEDW & GLASS = SSALG = = VVDOJ

Similarly, CLOCK = KCOLC = = NFROF.

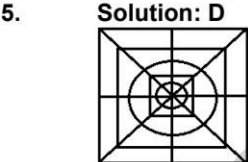
4. **Solution: D**
Here, the pattern is:
(13, 31, 49): $13 + 18 = 31$; $31 + 18 = 49$.
(75, 93, 111): $75 + 18 = 93$; $93 + 18 = 111$.

Option (a) (12, 26, 39): $12 + 14 = 26$; $26 + 13 = 39$.
So, option (a) is incorrect.

Option (b) (18, 36, 57): $18 + 18 = 36$; $36 + 21 = 57$.
So, option (b) is incorrect.

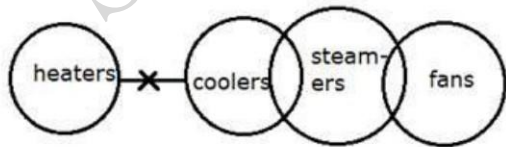
Option (c) (40, 58, 64): $40 + 18 = 58$; $58 + 6 = 64$.
So, option (c) is incorrect.

Option (d) (56, 74, 92): $56 + 18 = 74$; $74 + 18 = 92$.
So, option (d) is correct.



So, option figure (IV) is the correct answer.

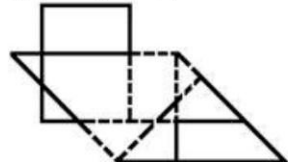
6. **Solution: D**
From the given statements, the Venn diagram is:



I. Some steamers are heaters: Here, some steamers which are coolers are not heaters. Thus, the steamers which are not coolers can be heaters. So, conclusion I is false.

II. All fans can be heaters: Here, there is a possibility that some/all fans are heaters. So, conclusion II is true.

7. **Solution: C**
Option figure (I) is embedded in the given figure.



8. **Solution: C**
Here, in figures I, II and IV, the intersection region of all three polygons is darkened.

In figure III, arrow is inscribed in the circle and the intersection region of arrow, circle and triangle is not darkened.

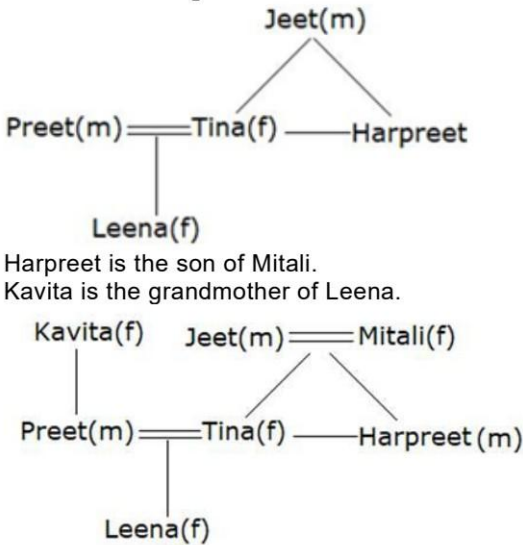
9. **Solution: B**
When the figure (III) is rotated 90° in anticlockwise direction and then rotated 315° in clockwise direction, the figure will be:



10. **Solution: D**
 $112 \times 4 = 448$; $448 + 4 = 452$
 $97 \times 4 = 388$; $388 + 4 = 392$
 $171 \times 4 = 684$; $684 + 4 = 688$
 $88 \times 4 = 352$; $352 + 4 = 356$

11. **Solution: B**
 $7 - - - 7 + 1 = 8$; $8^3 = 512$; $512 + 7 = 519$
 $9 - - - 9 + 1 = 10$; $10^3 = 1000$; $1000 + 9 = 1009$
 $6 - - - 6 + 1 = 7$; $7^3 = 343$; $343 + 6 = 349$
 $8 - - - 8 + 1 = 9$; $9^3 = 729$; $729 + 8 = 737$
Hence option (b) is odd from the rest.

12. **Solution: B**
Jeet is the father Harpreet.
Tina is the mother of Leena and daughter of Jeet.
Leena is the daughter of Preet.



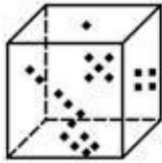
Harpreet is the son of Mitali.
Kavita is the grandmother of Leena.

13. **Solution: B**
Option (a) DGETFUUTPSAEJQFYLB
Here, the definite pattern cannot be established. So, option (a) is incorrect.
Option (b) DWEVFUGTHSIRJQKPLO
Here, the pattern is 'DW', 'EV', 'FU', 'GT', 'HS', 'IR', 'JQ', 'KP', 'LO'.
The alternate alphabets are in consecutive order.
Option (c) DEEGFUTTISRJSJCXLZ
Here, the definite pattern cannot be established. So, option (c) is incorrect.
Option (d) DZEMFUNTOSLIJQUTLY

Here, the definite pattern cannot be established.
So, option (d) is incorrect.

14. **Solution: B**

When we combine the dice we will get as follows.



Hence 4 will be opposite to 2

15. **Solution: C**

115 P 23 A 87 K ($\sqrt{64}$ D 9)

'A' denotes '+'

'D' denotes 'x'

'K' denotes '-'

'P' denotes '÷'

$115 \div 23 + 87 - (\sqrt{64} \times 9)$

$= 115 \div 23 + 87 - (8 \times 9)$

$= 5 + 87 - 72$

$= 92 - 72$

$= 20$

Thus, option (c) is the answer.

16. **Solution: A**

Option (a) -

$35 \times 5 \div 7 - 2 + 19 = 42$

$25 - 2 + 19 = 42$

$25 + 17 = 42$

42 = 42

Option (b) -

$35 \div 5 \times 7 + 2 + 19 = 42$

$7 \times 7 + 2 + 19 = 42$

$49 + 2 + 19 = 42$

$70 \neq 42$

Option (c) -

$35 + 5 - 7 + 2 - 19 = 42$

$40 - 5 - 19 = 42$

$16 \neq 42$

Option (d) -

$35 \div 5 \times 7 - 2 - 19 = 42$

$7 \times 7 - 2 - 19 = 42$

$49 - 2 - 19 = 42$

$28 \neq 42$

17. **Solution: A**

The order of layers of atmosphere from the earth crust is Troposphere, Stratosphere, Mesosphere, Thermosphere, Exosphere.

18. **Solution: C**

0402060205 means 'Ajit is father of Varun' and 0502110206 means 'Geeta is grandmother of Karuna'

Thus, the pattern is:

The words are replaced by the total number of letters present in it.

If the letters present in the word is a single digit number, then 0 is written before it and if the letters present in the word is a double digit number, then it is written as it is.

Example: Ajit = 04 and grandmother = 11

So, Girish is cousin of Pournima = 0602060208

19. **Solution: C**

'CARBONIZE' is written as 'DCUCQQJBH'.

Here, the pattern is:

$C + 1 = D$; $A + 2 = C$; $R + 3 = U$; $B + 1 = C$; $O + 2 = Q$; $N + 3 = Q$; $I + 1 = J$; $Z + 2 = B$; $E + 3 = H$.

Similarly,

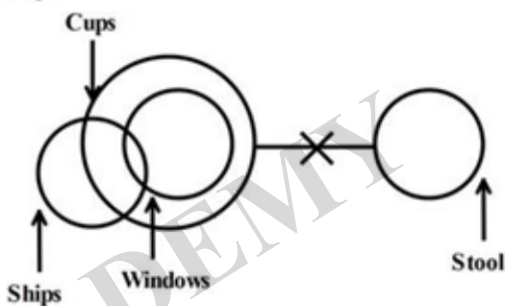
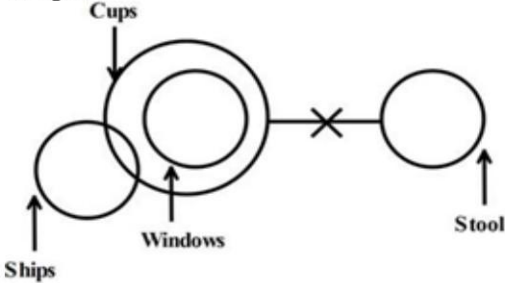
$F + 1 = G$; $R + 2 = T$; $E + 3 = H$; $Q + 1 = R$; $U + 2 = W$; $E + 3 = H$; $N + 1 = O$; $C + 2 = E$; $Y + 3 = B$.

20. **Solution: C**

It is given that,

Some ships are cups. No cup is a stool. All windows are cups.

We get,



Here, some ships being window is a possibility, no windows are stools, all cups are not windows, and there is no direct relationship between ships and stools.

Hence, conclusions I and II follow.

21. **Solution: A**

In all options except option (a), following logic is followed:

$H - 4 = D - 1 = C$

$W - 4 = S - 1 = R$

$T - 4 = P - 1 = O$

22. **Solution: B**

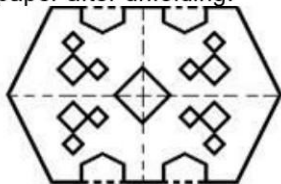
Here, $5^3 - 5^2 = 125 - 25 = 100$

$6^3 - 6^2 = 216 - 36 = 180$

Similarly, $8^3 - 8^2 = 512 - 64 = 448$

23. **Solution: A**

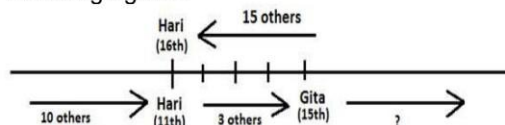
Option figure (IV) appears as the correct form of paper after unfolding.



24. **Solution: A**

Persons sitting to the right of Gita are 11. Hence, 'a' is the correct option.

Using the given information we can create the following figure -



Here, we see that number of persons sitting to the right of Gita are = $15 - 4 = 11$.

25. **Solution: C**

$(82, 41, 123) = 82$, $82 \div 2 = 41$, $82 + 41 = 123$

$$(74, 37, 111) = 74, 74 \div 2 = 37, 74 + 37 = 111$$

Option (a):

$$(54, 27, 84) = 54, 54 \div 2 = 27, 54 + 27 = 81 \text{ which is not equal to } 84$$

Option (b):

$$(46, 22, 84) = 46, 46 \div 2 = 23 \text{ which is not equal to } 22$$

Option (c):

$$(56, 28, 84) = 56, 56 \div 2 = 28, 56 + 28 = 84$$

Option (d):

$$(22, 12, 84) = 22, 22 \div 2 = 11 \text{ which is not equal to } 12$$

So, Option (c) is the correct option that is related in the same way as are the numbers of the following sets.

Quantitative Aptitude

26. **Solution: C**

$$\text{Maximum marks of the examination} = 5 \times 105 = 525$$

$$\text{Pratibha's score} = 525 \times 80/100 = 420$$

$$\text{Pratibha's score in science} = 420 - (81 + 98 + 92 + 89)$$

$$= 420 - 360$$

$$= 60$$

27. **Solution: D**

$$((6x) - (1/6x)) = 1$$

$$36x^2 - 1 = 6x$$

addition of $24x$ on both side,

$$36x^2 - 1 + 24x = 30x$$

so,

$$(36x^2 - 1 + 24x)/(3x) = 30x/3x = 10$$

28. **Solution: C**

When there is no discount, marked price = Selling price

In this case, if there is no discount, she would have to pay ₹667 more.

That means 29% discount = ₹667

$$1\% = ₹23$$

$$71\% = 23 \times 71 = ₹1633$$

So, she paid ₹1633 for the purse.

29. **Solution: C**

$$\frac{2-5a}{9a} + \frac{2-5b}{9b} + \frac{2-5c}{9c} = 0$$

$$\Rightarrow \frac{2}{9a} - \frac{5}{9} + \frac{2}{9b} - \frac{5}{9} + \frac{2}{9c} - \frac{5}{9} = 0$$

$$\Rightarrow \frac{2}{9} \left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c} \right) - \frac{15}{9} = 0$$

$$\Rightarrow \frac{2}{9} \left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c} \right) = \frac{15}{9}$$

$$\Rightarrow \left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c} \right) = \frac{15}{9} \times \frac{9}{2}$$

$$\Rightarrow \left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c} \right) = \frac{15}{2}$$

30. **Solution: C**

We know, exterior angle in triangle is equal to the sum of two interior opposite angles. Then,

$$\angle DOC = \angle OBC + \angle BCO$$

$$113^\circ = 39^\circ + \angle BCO$$

$$\angle BCO = 74^\circ$$

And, $\angle ADO = \angle BCO = 74^\circ$ (angles in same segment)

31. **Solution: C**

$$20\% \text{ of } A = 70\% \text{ of } (B/3)$$

$$A/5 = (7/10) \text{ of } (B/3)$$

$$A/5 = 7B/30$$

$$A = 7B/6$$

$$6A = 7B$$

Now,

$$50\% \text{ of } A = A/2 = 7B/12$$

$$\text{Required percentage} = (7B/12) \times 100/B = 700/12 = 175/3 = 58(1/3)\%$$

32.

Solution: C

$$\sqrt{7y} + \frac{1}{\sqrt{7y}} = 4$$

$$\left(\sqrt{7y} + \frac{1}{\sqrt{7y}} \right)^2 = 16$$

$$7y + \frac{1}{7y} + 2 = 16$$

$$7y + \frac{1}{7y} = 14$$

$$y + \frac{1}{49y} = 2$$

33.

Solution: B

$$\text{Number of orders cancelled on Mon} = 450 - 360 = 90$$

$$\text{Number of orders cancelled on Wed} = 320 - 280 = 40$$

$$\text{Number of orders cancelled on Fri} = 480 - 360 = 120$$

$$\text{Number of orders cancelled on Sun} = 360 - 300 = 60$$

Hence, number of orders cancelled on Wed is minimum.

34.

Solution: D

$$6: 10 = 6/10 = 0.6$$

$$2: 3 = 2/3 = 0.66$$

$$4: 7 = 4/7 = 0.57$$

$$6: 12 = 6/12 = 0.5$$

Hence, 6: 12 is the lowest ratio.

35.

Solution: A

$$\left(\frac{5}{\sqrt{12}-\sqrt{17}} + \frac{4}{\sqrt{11}+\sqrt{7}} \right)^2$$

$$= \left(\frac{5}{\sqrt{12}-\sqrt{17}} \times \frac{\sqrt{12}+\sqrt{7}}{\sqrt{12}+\sqrt{7}} + \frac{4}{\sqrt{11}+\sqrt{7}} \times \frac{\sqrt{11}-\sqrt{7}}{\sqrt{11}-\sqrt{7}} \right)^2$$

$$= \left(\frac{5 \times \sqrt{12} + \sqrt{17}}{12-17} + \frac{4 \times \sqrt{11} - \sqrt{7}}{11-7} \right)^2$$

$$= (\sqrt{12} + \sqrt{7} + \sqrt{11} - \sqrt{7})^2$$

$$= (\sqrt{12} + \sqrt{11})^2$$

$$= 12 + 11 + 2\sqrt{3} \times \sqrt{11}$$

$$= 23 + 4\sqrt{33}$$

36.

Solution: B

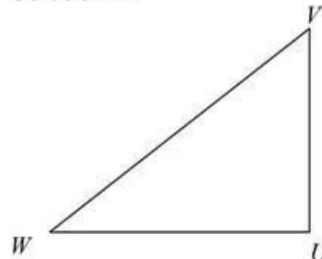
For divisibility by 3 - sum of the numbers will be divisible by 3.

$$8 + 3 + 8 + 4 + B + 8 + 4 = 35 + B$$

The possible value of B = 1, 4, 7

37.

Solution: B



According to the question, In $\triangle UVW$, $UV = 20$ cm, $UW = 21$ cm, and $VW = 29$ cm

By Pythagoras theorem,

$$VW^2 = UV^2 + UW^2$$

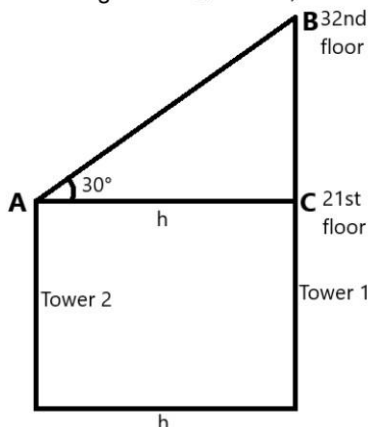
$$\Rightarrow VW^2 = 20^2 + 21^2 = 400 + 441 = 841$$

$$\Rightarrow VW = 29 \text{ cm}$$

Hence, $\triangle UVW$ is right angle triangle.

In right angle triangle, median divides the hypotenuse VW in two equal parts.

38. Thus, median = $VW/2 = 29/2 = 14.5$ cm
Solution: B
 According to the Question,



Total number of floors in Tower 1 = 32
 Total number of floors in Tower 2 = 21
 Number of floors more in Tower 1 = $32 - 21 = 11$ floors
 Height of each floor in both the towers = 3m
 Height of 11 floors = $11 \times 3 = 33$ m
 Angle of elevation = $\angle BAC = 30^\circ$
 Let separation of the two towers = $AC = h$ m
 In $\triangle ABC$,
 $\tan 30^\circ = BC/AC$
 $1/\sqrt{3} = 33/h$
 $h = 33\sqrt{3}$ m [given: $\sqrt{3} = 1.7$]
 $h = 56.10$ m

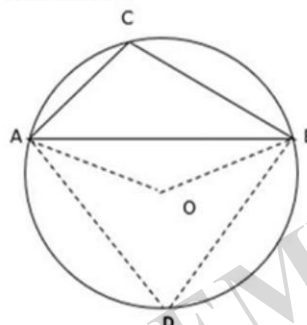
39. **Solution: D**
 8% profit = $108/100 = SP/CP$
 Given, 108 units = ₹35748
 1 unit = ₹331
 100 units = ₹33100
 Profit when he sells to person B = $35748 - 33100 = ₹2648$
 $13\% = 113/100 = SP/CP$
 Given, 113 units = ₹12995
 1 unit = ₹115
 100 units = ₹11500
 Profit when he sells to person C one article = $12995 - 11500 = ₹1495$
 Profit when he sells to person two articles = $2 \times 1495 = ₹2990$
 Total profit = $2648 + 2990 = ₹5638$

40. **Solution: C**
 Let efficiency of one man is 'm' units per day and that of one woman is 'w' units per day.
 $(18m + 20w) \times 7.5 = 30w \times 10$
 $135m + 150w = 300w$
 $135m = 150w$
 $9m = 10w$
 $9 \times (16/9) m = 10 \times (16/9) w$
 $16m = (160/9) w$
 Now, let 16 m can complete the same work in y days.
 By MDH formula,
 $30w \times 10 = y \times (160/9) w$
 $y = 135/8 = 16.875 = 17$ days
41. **Solution: B**
 First 5 prime numbers = 2, 3, 5, 7 and 11
 Sum of first 5 prime numbers = $2 + 3 + 5 + 7 + 11 = 28$

First 4 natural numbers divisible by 3 = 3, 6, 9 and 12
 Sum of first 4 natural numbers divisible by 3 = $3 + 6 + 9 + 12 = 30$
 Required ratio = 28: 30 = 14: 15

42. **Solution: A**
 Distance covered by the train leaving from X in 2 hr = $60 \times 2 = 120$ km
 Remaining distance = $280 - 120 = 160$ km
 Now, relative speed = $60 + 20 = 80$ km/hr
 Time in which both trains meet after the train leaving from Y started = $160/80 = 2$ hr
 Required time = $2 + 2 = 4$ hr

43. **Solution: D**



$\angle ACB = 108^\circ$
 $\angle ADB = 180^\circ - 108^\circ = 72^\circ$ (sum of opposite angle in a quadrilateral is 180°)
 $\angle AOB = \angle ADB \times 2 = 72^\circ \times 2 = 144^\circ$
 $\angle OAB = (180^\circ - 144^\circ)/2 = 18^\circ$

44. **Solution: D**
 Number of students who got marks less than 60 = $8 + 14 + 28 + 30 = 80$
 Total students = 128
 Required percent = $(80/128) \times 100 = 62.5\%$
45. **Solution: A**
 This question can be done by using options. Given that A is twice efficient as B and so B will take twice number of days than A.
 Now from the given options, only option (a) and (b) satisfies the condition. Since time taken by both together is 40 days, no one can alone do the work in 40 days.
 So, option (b) is also ruled out.

46. **Solution: B**
 $3x + 2y - (y - 3x) + (x + y) - (2x - y) + (2x + y)$
 $= 3x + 2y - y + 3x + x + y - 2x + y + 2x + y$
 $= 7x + 4y$

47. **Solution: D**

$$\frac{1}{\csc x - \sin x} - \tan x \sec x$$

$$= \frac{\csc x - \sin x}{\csc x - \sin x} - \tan x \sec x$$

$$= \frac{\csc x^2 x - 1}{\csc x} - \tan x \sec x$$

$$= \frac{\cot^2 x - 1}{\sin x} - \tan x \sec x$$

$$= \frac{1}{\sin x} \frac{\sin^2 x}{\cos^2 x} - \tan x \sec x$$

$$= \tan x \sec x - \tan x \sec x$$

$$= 0$$

48. **Solution: A**
 Product of numbers = LCM $\times$ HCF = $21 \times 3 = 63$
 Mean proportional = $\sqrt{\text{product of numbers}} = \sqrt{63}$

49. **Solution: A**
 Diagonal of cube = Side of cube $\times \sqrt{3}$
 $9\sqrt{6} = \text{Side of cube} \times \sqrt{3}$
 Side of cube = $9\sqrt{2}$ cm
 Volume of the cube = Side³
 $= (9\sqrt{2})^3$

$= 729 \times 2 \times \sqrt{2}$
 $= 1458\sqrt{2}$ cubic cm.

50. **Solution: A**
Let the sum = ₹P
Time = 3 years
Now 5% more interest rate leads to ₹420 more simple interest.
Therefore,
 $5\% \times 3$ of P = ₹420
 100% of P = $420 \times 100/15$ = ₹2800
Now,
 $SI = 2800 \times 12 \times (14/3) \times (1/100)$
 $SI = 28 \times 56$
 $SI = ₹1568$

General Awareness

51. **Solution: (A)**
Veteran Indian cricketer Ravichandran Ashwin has announced his retirement from international cricket. Ashwin played 106 Tests and took 537 wickets, making him India's second-highest wicket-taker in Test history after Anil Kumble. Ravichandran has also played 116 ODIs and 65 T20Is.
52. **Solution: (B)**
Preeti Lobana has recently been appointed as the Country Manager and Vice President of Google India. Lobana has over 30 years of leadership experience in both technology and financial sectors. This important appointment establishes her as a key leader in one of Google's most important markets.
53. **Solution: (D)**
The Indian women's handball team achieved a significant milestone by finishing sixth in the Asian Women's Handball Championship 2024, their best ever performance in the history of the tournament. The team faced a tough challenge against China in the 5th/6th place playoff, which China won.
54. **Solution: (C)**
Mikheil Kavelashvili has been elected the new President of Georgia. He was elected unopposed to the Parliament through direct voting by the 300-member electoral college, in which 224 out of 225 members voted for him. Former footballer Mikheil Kavelashvili is a member of Parliament from the ruling Georgian Dream party.
55. **Solution: D**
Lala Lajpat Rai was popularly known as Punjab Kesari (the Lion of Punjab) and named as an institution by Mahatma Gandhiji. When he came to know of the imposition by the colonial regime, he immediately returned to Lahore and led the procession against the Simon Commission. He was made the target of a brutal lathi - charge by the police; even then he maintained his presence of mind and requested the people to remain calm and peaceful.
56. **Solution: A**
Meenakshi Singh of Haryana has bagged two gold medals in cycling at the National Games in Goa. She won medals in the 10km Scratch race and 3km individual pursuit (women) categories. Karnataka swimmer Nina Venkatesh won the women's 50m butterfly event for her fourth gold medal while Virdhawal Khade did the double, adding the men's 50m butterfly yellow metal to his kitty.
57. **Solution: A**

Animals who derive nutrition from the host body are called Parasitic Nutrition. Example: Mosquitoes, lice, and tapeworm.

The mode of nutrition in which an organism obtains nutrients from dead and decaying organic matter is called saprophytic nutrition. Example - Rhizopus (bread mould), Mucor (pin mould), Yeast, Agaricus (mushroom), Bacteria and fungus.

58. **Solution: B**
· In 1757, **Robert Clive** led the British East India Company's army against Sirajuddaulah at Plassey.
· One of the main reasons for the defeat of the Nawab was that the forces led by Mir Jafar, one of Sirajuddaulah's commanders, never fought the battle.
· Clive had managed to secure his support by promising to make him nawab after crushing Sirajuddaulah.
· The Battle of Plassey became famous because it was the first major victory the Company won in India.
· After the defeat at Plassey, Sirajuddaulah was assassinated and Mir Jafar made the nawab.

59. **Solution: B**

Musician	Instrument
Ustad Ajmad Ali Khan	Sarod
Ustad Bismillah Khan	Shehnai
Ustad Zakir Hussain	Tabla
Ustad Vilayat Khan	Sitar

60. **Solution: C**
Ganga, rising in the northernmost part of Uttarakhand (Gomukh), flows through Uttar Pradesh, Bihar and West Bengal and finally falls into the Bay of Bengal (Sagardweep).
The Ganga basin covers nearly one - fourth (26.3 per cent) of the country's total geographical area, and is the largest river basin with a catchment area of 760,407 km². In India, the basin covers the whole of Uttarakhand, Uttar Pradesh, Bihar and the Union Territory of Delhi and parts of Punjab, Haryana, Himachal Pradesh, Rajasthan, Madhya Pradesh and West Bengal.
61. **Solution: C**
After the failure of the Cabinet Mission, the Muslim League decided on mass agitation for winning its Pakistan demand. It announced **16th August 1946** as "Direct Action Day". On this day riots broke out in Calcutta, lasting several days and resulting in the death of thousands of people. By March 1947 violence spread to different parts of northern India.
62. **Solution: C**
Recently, the Vidhi Centre for Legal Policy (Delhi based independent think - tank) in its book "From Rule by law to the Rule of Law" suggested reforms regarding the role of the District Collector/ District Magistrate (DC/DM).
Article 50 of the Constitution states that "The State shall take steps to separate the judiciary from the executive in the public services of the State."
63. **Solution: D**
• Montreux Record is a register of wetland sites which are wetlands of international importance. It is maintained under the Ramsar Convention.
• Loktak lak of Manipur and Keoladeo National Park of Rajasthan are the two Montreux Record

sites in India. Chilka Lake was also added in the list but it has been removed from the list in 2002.

64. **Solution: C**

The term 'Counter Hit' is associated with Table Tennis, it is an attacking stroke used against a topspin, drive or loop shot.

Game/Sport	Terms
Volleyball	Libero, Blocking, Dribble
Badminton	Drop, Love
Golf	Stymie, Put Hole

65. **Solution: C**

The Ganga River system is the largest in India having a number of perennial and non - perennial rivers originating in the Himalayas in the north and the Peninsula in the south, respectively. The river has a length of 2,525 km. It is shared by Uttarakhand, Uttar Pradesh, Bihar, and West Bengal.

The Son is its major right bank tributary. The important left bank tributaries are the Ramganga, the Gomati, the Ghaghara, the Gandak, the Kosi and the Mahananda.

66. **Solution: C**

Khudiram Bose, along with Prafulla Chaki, attempted to assassinate a British judge, Magistrate Douglas Kingsford, by throwing bombs on the carriage they suspected the man was in. Magistrate Kingsford, however, was seated in a different carriage, and the throwing of bombs resulted in the deaths of two British women. Prafulla fatally shot himself before the arrest. Khudiram was arrested and tried for the murder of the two women, ultimately being sentenced to death. He was one of the first Indian revolutionaries in Bengal to be executed by the British.

67. **Solution: B**

Bhutan is a landlocked South Asian country, which is situated in the Eastern Himalayas, between **China in the north and India in the south. Nepal and Bangladesh are located near Bhutan but do not share a border with it.**

Bhutan and China held their 25th round of boundary talks, that have been held since the last round in 2016, even as Bhutan's Foreign Minister met with Chinese Foreign Minister in Beijing, with both sides saying they want a deal on demarcating the boundaries "soon".

68. **Solution: A**

Assets are those resources of a bank which helps to generate revenue for the bank. Here, loans and advances are the assets for a bank because a significant portion of banks revenue comes from loans or lending activities.

On the other hand, liabilities of a bank signifies all types of payables. Here, demand deposits are the bank's liability as the bank has to pay back their money to customers on demand. Cash reserve ratio as

well as written - off loans are also the liabilities because they do not generate any revenue for the bank.

69. **Solution: A**

The Chhau dance of Eastern India - - Orissa, Jharkhand, and West Bengal - is a blend of martial traditions, temple rituals, and folk and popular performance of this region. episodes from the epics

Mahabharata, Ramayana, Puranas, traditional folklore, local legends and abstract themes through the medium of dance and a music ensemble that consists primarily of indigenous drums. In its traditional context, the dance is intimately connected with the festivals and rituals of this region.

70. **Solution: B**

The Treaty of Bassein was a significant agreement between the British East India Company and the Maratha Confederacy. The Marathas were a powerful Hindu empire that controlled a large part of India in the 18th century. The treaty was a result of the Second Anglo - Maratha War (1803 - 1805), which followed conflicts and tensions between the British and the Marathas.

71. **Solution: C**

Kathak is originated from **Uttar Pradesh**. This one is derived from the word katha meaning story, and during the whole dance, the dancers narrate stories through their eyes and expressions. As per the literary records at Kameshwar library at Mithila, Kathak had its origin in the 3rd or 4th century BC.

72. **Solution: C**

Ethane (C₂H₆) is an example of a saturated hydrocarbon. A saturated hydrocarbon consists of carbon (C) and hydrogen (H) atoms bonded together by single covalent bonds, meaning they have the maximum number of hydrogen atoms possible for the given number of carbon atoms. Ethane has two carbon atoms bonded together by a single bond and is saturated with hydrogen atoms, with each carbon atom bonded to three hydrogen atoms.

73. **Solution: D**

Cotton grows best in hot, dry climates with well - drained soil. It requires plenty of sunshine and can tolerate low rainfall. In contrast, tea, coffee, and sugarcane generally need more moisture and are typically grown in regions with higher rainfall.

Water Requirements:

Tea plants thrive in regions with high rainfall, typically between 1,200 mm to 2,500 mm annually. They require consistent moisture and a humid environment to grow well. Tea is commonly grown in tropical and subtropical regions with regular and adequate rainfall.

Coffee plants also prefer areas with substantial rainfall, usually between 1,200 mm to 2,500 mm annually. They require a well - distributed rainfall throughout the year and can tolerate some dry periods but prefer a humid and consistent climate.

Cotton is adapted to dry and hot climates. It requires less rainfall compared to tea and coffee, generally around 500 mm to 800 mm annually. Cotton can grow in areas with low to moderate rainfall and is often irrigated in regions where natural precipitation is insufficient.

Sugarcane needs a lot of water and is typically grown in regions with high rainfall, usually between 1,200 mm to 2,500 mm annually. It requires a humid environment with consistent water supply throughout its growing period, as it is highly water - intensive.

In summary, cotton is the crop that is most adapted to dry and hot climates with relatively low rainfall,

whereas tea, coffee, and sugarcane require higher amounts of water.

74. **Solution: A**

Depending on the number of atoms present, a molecule is called monoatomic, diatomic and polyatomic molecule. Eg.

Monoatomic molecule - He, Ne, Ar, Kr, Xe and Rn.

Diatomic molecule - H₂, NaCl, O₂, HCl, etc.

Polyatomic molecule - P₄, NH₃, H₂SO₄, etc.

75. **Solution: A**

· **Article 123:** Power of President to promulgate Ordinances during recess of Parliament.

· President is given powers to promulgate Ordinances when both the Houses or either of the Houses are not in session.

· The Parliament has to approve the ordinance within six weeks from its reassembly else it lapses.

· The acts done and completed under the ordinance before it lapses, remains fully active.

· Article 213: deals with ordinance making power of Governor of a state.

English Language

76. **Solution: C**

The subject of the given sentence is 'meetings' which is plural in nature. So, the helping verb associated with it should be plural. The singular verb 'was' is used with singular subjects. So, it should be replaced with the corresponding plural verb 'were' to rectify the given sentence. Hence, option (c) is the correct answer.

The correct sentence is: It's an obligation that the meetings of the Senate were held daily with closed doors.

77. **Solution: C**

The correct idiom with its meaning is given below.

Bite off more than you can chew: To take on a task that is way too big or beyond one's capability.

Among the given choices, option (c) can substitute the underlined segment given in the sentence.

Hence, option (c) is the correct answer.

78. **Solution: B**

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

The usage of a "to be" form of verb is necessary while changing the voice of the sentence from Active to Passive.

In Passive Voice, the preposition "by" is used before the object. However, it is optional in some cases.

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

The format of Active voice is: Subject + am/is/are + V1 + ing + Object.

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

For example:

Arnab is typing a document. (Active Voice)

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

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

Therefore, the correct answer is: A beautiful picture is being painted by her.

Hence, option (b) is the correct answer.

79. **Solution: B**

'Vigilant' means 'Keeping careful watch for possible danger or difficulties.'. Options a) and c) can be rejected as they are unrelated to the word.

'Heedless' means 'Showing a reckless lack of care or attention.'. Hence, option d) can also be rejected as it is the exact opposite.

'Heretic' means 'A person believing in or practising religious heresy.'. 'Affiance' means 'Be engaged to marry.'. Hence,

option b) is the correct answer.

80. **Solution: A**

The option that expresses the given sentence in the future tense form is (a) (There will be several new initiatives launched for environmental conservation). This option represents the future tense, indicating that there are plans to launch several new initiatives for environmental conservation in the future. Option (b) is in the past perfect tense, suggesting that the initiatives were launched before a specific time in past. Option (c) is in the present perfect tense, suggesting that the initiatives have been launched up to the present time. Option (d) is in the past tense, indicating that the initiatives were launched in the past. Hence, (a) is the correct answer.

81. **Solution: B**

Sentence B is grammatically correct. The phrase 'one of' is always followed by a plural noun. The word "athlete" is a countable noun, so it has the plural form 'athletes'. Also, 'he' is singular, so the plural verb 'are' cannot be used with it. 'Is' is singular. Therefore, the correct sentence is "He is one of the best athletes in the world."

Hence, option (b) is the correct answer.

Note:

Countable and uncountable nouns: 1.

Countable nouns are the class of nouns that can be counted, for example, 'table' - one table, two tables, three tables, etc. **2. Uncountable**

nouns are the nouns that cannot be counted or usually are not counted, for example, light, water, milk, information, furniture, etc. They do not

generally have a plural form and can't be preceded by 'a' or 'an'. Many abstract nouns are typically uncountable. Some uncountable nouns can be

used in the plural as well, depending on the meaning or context of the word.

82. **Solution: C**

'Rumour' means a statement or claim of questionable accuracy. 'Hearsay' means

information that was heard by one person about another that cannot be adequately substantiated.

So, 'hearsay' is the denotation of the given highlighted word. Hence, (c) is the correct answer.

'Fact' means something actual as opposed to invented.

'News' means information about current events disseminated via media.

'Announcement' means an act of giving notice.

83. **Solution: B**

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

the Passive Voice is changed into the subject of the Active Voice.

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

The Passive voice in this question is in **Future Indefinite**. Thus, the Active voice will also be in Future Indefinite.

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

Thus, the format of Active voice is: Subject + shall/will + V1 + Object.

For example:

The assignment will be completed by him. (Passive Voice)

He will complete the assignment. (Active Voice)

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

Hence, the correct answer is option (b).

Note:

V1 - > Base form/simple form of verb, **V2** - > Past form of verb (- ed form or irregular verb), **V3** - > Past participle form of verb (- ed, - d, - t, - en, or - n), **V4** - > Continuous form of verb / Present participle form of verb (- ing form), **V5** - > Third person singular (V1 + - es or - s).

84. **Solution: C**

Certain adjectives (like poor, needy, aged, rich, dead etc.), when preceded by 'the' become nouns in plural and require a plural verb if they are used as subjects. 'Handicapped' is one such word, so 'demonstrates' (singular verb) will be replaced by 'demonstrate' (plural verb) to rectify the error in the sentence.

Hence, (c) is the correct answer.

The final correct sentence would be: The handicapped, despite facing physical challenges, often demonstrate remarkable resilience and determination. Their unique abilities and perspectives contribute to a more inclusive and diverse society.

85. **Solution: C**

One who is unable to pay his debts = Insolvent. One who is filled with excessive enthusiasm in religious matters = Fanatic. A person who primarily concerned with making money at the expense of ethics = Mercenary. Option C will be the correct answer.

86. **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.

87. **Solution: D**

Root and branch - used to express the thorough or radical nature of a process or operation

The three R's - reading, writing, and arithmetic, regarded as the fundamentals of learning

In ups and downs - a succession of both good and bad experiences

By fits and starts - to do it intermittently or sporadically

Among the given phrases, the phrase that matches the context of the sentence which talks about the way in which a person must study to achieve success is option (d) 'by fits and starts' alone.

The complete sentence is: One has to be persistent in studies if he/she wants to get his/her dream job. Success will remain unattainable if one studies by fits and starts.

Hence, the correct answer is option (d).

88. **Solution: A**

'Orthoepist' means a person who studies the pronunciation of words. Hence, (a) is the correct answer.

'Linguist' means one versed in many languages.

'Pedant' means one who makes a display of his learning.

'Raconteur' means an expert at story - telling.

89. **Solution: D**

'Protean' means 'Tending or able to change frequently or easily'. Options b) and c) can be rejected as they are unrelated to the word.

'Variable' means 'Not consistent or having a fixed pattern; liable to change'. Hence, option a) can also be rejected as it has the same meaning as the word. 'Traduce' means 'Speak badly of or tell lies about (someone) so as to damage their reputation'. 'Earnest' means 'Resulting from or showing sincere and intense conviction'. Hence, option d) is the correct answer.

90. **Solution: C**

The correct spelling is "variance" which means "the fact or quality of being different, divergent, or inconsistent." Option C is the correct answer.

91. **Solution: B**

'Brewery' means a place where beer is made. Hence, (b) is the correct answer.

'College' means an academic institution for higher studies.

'Barricade' means a barrier constructed across a road.

'Bakery' means a shop in which bread is baked.

92. **Solution: A**

To be a peach: This idiom is used to describe someone or something that is outstanding, excellent, or exceptionally good. In the context of the sentence, if we replace "exceptionally good" with "To be a peach," the sentence would read, "The performance of the lead actor in the play turned out to be a peach." This implies that the lead actor's performance was outstanding. Hence, (a) is the correct answer.

To be all ears: This idiom means to be eager and ready to listen.

To be on cloud nine: This idiom is used to express extreme happiness or joy.

To be in hot water: This idiom means to be in trouble or facing difficulties.

93. **Solution: B**

'Inevitable' means impossible to avoid or prevent.
'Preventable' means capable of being prevented or surpassed. So, the two words can be used as antonyms of each other. Hence, (b) is the correct answer.

'Unescapable' means impossible to avoid or escape.

'Necessary' means required or essential.

'Destined' means confined to a predetermined fate or destiny.

94. **Solution: B**

Sentence A cannot be the starting sentence. The pair BA is a coherent pair as sentence B talks about the goal of the author's life. Sentence C cannot be the starting sentence. 'So' can be used to introduce clauses of result or decision. Sentence C can follow A or D. Since there is no option that contains the pair AC, we can use the pair DC. Therefore, DCBA becomes the correct order among the given options.

Hence, option (b) is the correct answer.

95. **Solution: A**

The correctly spelt word to fill in the blank is "bureaucracy." The word refers to the complex and hierarchical system of government agencies, often characterized by a lot of rules, procedures, and red tape. Hence, (a) is the correct answer.

96. **Solution: A**

The blank requires a verb in the past tense (V2) to denote the work done by Sir Elton John. 'Produce' is in the base form (V1) and thus it is negated. The sentence talks about a record which can neither be 'manufactured' nor 'quoted' and thus they are also negated. 'Set' (establish (a record)) is the correct word that matches the context of the sentence and denotes what Sir Elton John did.

Manufactured -

Quoted -

Hence, the correct answer is option (a).

97. **Solution: C**

'Tuning' (adjust (a receiver circuit such as a radio or television) to the frequency of the required signal) is the most appropriate word that fits the blank because it is the only word with which how people listened to the musician's show is described. The remaining words do not make the sentence meaningful and are thus negated.

Forming - bringing together parts or combining to create (something).

Guiding - show or indicate the way to (someone).

Becoming - grow to be; develop into.

Hence, the correct answer is option (c).

98. **Solution: A**

'Music' is the most appropriate word to fill in the given blank because the sentence talks about one quality of the musician which is related to his voice. Though 'lyrics' is a close option, it has no direct relationship with the musician's voice and thus it is negated. The remaining options are contextually irrelevant and are thus negated.

Ethics - moral principles that govern a person's behaviour or the conducting of an activity.

Dance - a series of steps and movements that match the speed and rhythm of a piece of music.

Hence, the correct answer is option (a).

99. **Solution: C**

The blank requires a verb in the past tense (V2) to denote the surgery that was done to the musician in the past. Among the options, 'had' is the only verb in the past tense form and none of the remaining options is in the past tense thus they are negated.

Has - Present perfect tense.

Have - Base form (V1).

Will have - future tense.

Hence, the correct answer is option (c).

100. **Solution: D**

'Through' is the appropriate word that can fill in the blank because the sentence talks about air which starts passing from the lungs and it has to go via a path, which can be described by the preposition 'through' (moving in one side and out of the other side of (an opening, channel, or location)) alone. None of the remaining options conveys this required meaning and all are thus negated.

In - expressing the situation of something that is or appears to be enclosed or surrounded by something else.

At - expressing location or arrival in a particular place or position.

Of - expressing the relationship between a part and a whole.

Hence, the correct answer is option (d).