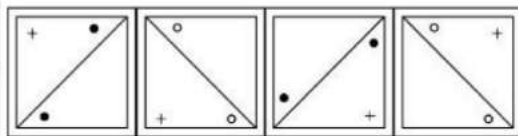


Previous Years Paper

6th October 2022 (Shift -1)

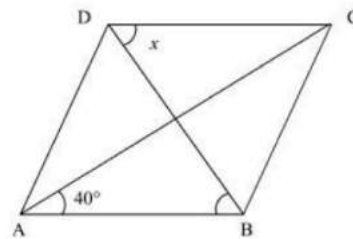
- Q1.** Actress and Model "Harnaaz Sandhu" was crowned as _____ in Dec 2021.
 (a) Miss World 2021
 (b) Miss India 2021
 (c) Miss Universe 2021
 (d) Miss Earth 2021
- Q2.** If each side of a cube is reduced by 50% the surface area will reduced by.
 (a) 75%
 (b) 50%
 (c) 25%
 (d) 100%
- Q3.** If * is an operation such that $a * b = 3a - 4b$, find the value of $3 * 4$
 (a) 0
 (b) -7
 (c) 7
 (d) -1
- Q4.** In a certain language TRIANGLE is written as VTKCPING. How RECTANGLE will be written in this language?
 (a) TGEUCPING
 (b) TGEVCPKNG
 (c) TGEVCPING
 (d) TGEVCPING



The next figure is

- (a)
- (b)
- (c)
- (d)

- Q6.** Two numbers are in ratio of 7: 10 and if the sum of the numbers is 119. Find the difference of the numbers.
 (a) 7
 (b) 21
 (c) 17
 (d) 12
- Q7.** Who is the first Chief of Defence Staff of the Indian Armed forces?
 (a) Field Marshal K. M. Cariappa
 (b) General Manoj Mukund Narayan
 (c) General Bipin Rawat
 (d) General Manoj Pande
- Q8.** In the given figure ABCD is a rhombus, the value of x is.



- (a) 40°
 (b) 50°
 (c) 90°
 (d) 60°
- Q9.** What is the next number
 2, 9, 28, 65, _____.
 (a) 130
 (b) 126
 (c) 139
 (d) 136
- Q10.** 'Neeraj Chopra' is associated with which sports event?
 (a) Wrestling
 (b) Boxing
 (c) Shooting
 (d) Javelin Throw
- Q11.** The missing term of the series is
 A2, C5, E8, G11, _____.
 (a) I 13
 (b) H 14
 (c) I 14
 (d) H 13
- Q12.** What is the full form of NABARD?
 (a) National Bank for Agriculture and Resource Development
 (b) National Bank for Agriculture and Rural Development
 (c) National Bank for Asian Research Development
 (d) National Bank for Agriculture Related Development

Q13. Match List I with List II

LIST I (Equations)		LIST II (Solutions)	
A.	$2x - 4 = 2 - x$	I.	$x = 3$
B.	$7 - 4x = 0$	II.	$x = 2$
C.	$\frac{x}{2} - 3 = 0$	III.	$x = \frac{7}{4}$
D.	$2x + 3 = x + 6$	IV.	$x = 6$

Choose the correct answer from the options given below:

- (a) A-II, B-IV, C-III, D-I
 (b) A-I, B-III, C-IV, D-II
 (c) A-II, B-III, C-IV, D-I
 (d) A-II, B-I, C-IV, D-III

Q14. Match List I with List II

LIST I (Crematoriums (samadhi sthal))		LIST II (Person)	
A.	Ekta Sthal	I.	Jawaharlal Nehru
B.	Vijay Ghat	II.	Rajiv Gandhi
C.	Veer Bhumi	III.	Lal Bahadur Shastri
D.	Shanti Van	IV.	Giani Zail Singh

Choose the correct answer from the option given below:

- (a) A-I, B-II, C-III, D-IV
 (b) A-II, B-IV, C-I, D-III
 (c) A-IV, B-III, C-II, D-I
 (d) A-III, B-I, C-IV, D-II

Direction for Qs (15 - 17): A, B, C, D and E are standing in row. 'A' is between 'B' and 'D'. E is not at the left end of row. 'C' is to the immediate right of D. Study above statement and answer the question

Q15. Who is at the middle of the row?

- (a) D
 (b) C
 (c) A
 (d) B

Q16. Who is at the left end of the row?

- (a) C
 (b) D
 (c) A
 (d) B

Q17. 'B' is standing in between

- (a) 'E' and 'D'
 (b) 'A' and 'E'
 (c) 'D' and 'C'
 (d) 'A' and 'C'

Q18.



The number of triangles in above figure is

- (a) 5
 (b) 10
 (c) 18
 (d) 6

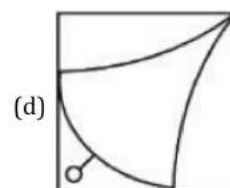
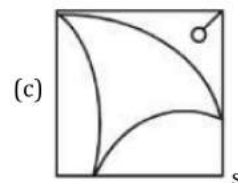
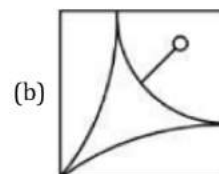
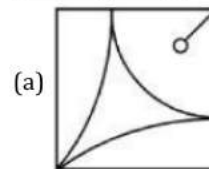
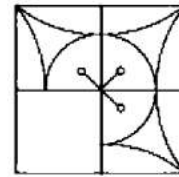
Q19. Which of the following standing committee of parliament has no member from Rajya Sabha?

- (a) Public Account committee
 (b) Estimates Committee
 (c) Committee on Public Undertaking
 (d) Committee on Government Assurance

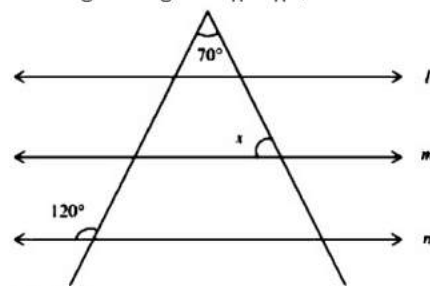
Q20. New Education Policy, 2020 has the goal to achieve 100% gross enrolment Ratio (GER) in school Education by the year ____.

- (a) 2025
 (b) 2030
 (c) 2035
 (d) 2040

Q21. Which of the following will complete the adjoining figure?



Q22. In the given figure $l \parallel m \parallel n$, the value of x is



- (a) 80°

- (b) 70°
(c) 60°
(d) 50°

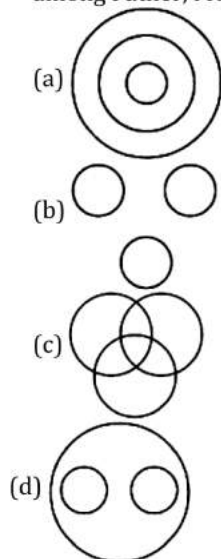
Q23. On which date World Environment Day is celebrated?

- (a) 21 June
(b) 5 June
(c) 21 July
(d) 22 March

Q24. If DOG = 26, FLY = 43
then what is the code for 'BIRD'?

- (a) 60
(b) 32
(c) 33
(d) 24

Q25. Which is the best diagram, showing the relation among Father, Mother and family.



Q26. Which of the following seas has highest salinity in the world?

- (a) Dead Sea
(b) Black Sea
(c) Red Sea
(d) Mediterranean Sea

Q27. If the sugar price is increased by 25% by how much percent consumption should be reduced that expense remains same.

- (a) 25%
(b) 20%
(c) 30%
(d) 35%

Q28. Mohan's Mother is three times as old as Mohan. After 6 years, his mother will be two times as old as he will be them, find the age of Mohan.

- (a) 18 years
(b) 6 years
(c) 3 years
(d) 16 years

Q29. Which organisation published the Human Development Index (HDI) Report?

- (a) UNDP
(b) UNESCO

- (c) IMF
(d) UNICEF

Q30. Penicillium is a ____.

- (a) Virus
(b) Algae
(c) Fungi
(d) Bacteria

Q31. In a row of 35 student, Ramesh is 24th from starting. Two students from last went away. What is the position of Ramesh from last row?

- (a) 12th
(b) 10th
(c) 14th
(d) 11th

Q32. Which one of the following is the correct sequence in the decreasing order of contribution of different sources to the gross domestic product (GDP) in India.

- (a) Service- Industry- Agriculture
(b) Service- Agriculture-Industry
(c) Industry-Service-Agriculture
(d) Agriculture-Industry-service

Q33. Match List I with List II.

LIST I (Country)		LIST II (Capital city)	
A.	Ukraine	I.	Kiev
B.	Sri Lanka	II.	Warsaw
C.	Turkey	III.	Colombo
D.	Poland	IV.	Ankara

Choose the correct answer from the options given below:

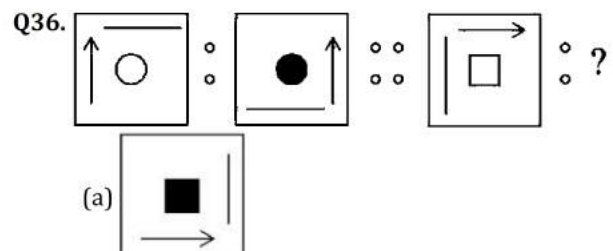
- (a) A-I, B-III, C-II, D-IV
(b) A-II, B-III, C-IV, D-I
(c) A-I, B-III, C-IV, D-II
(d) A-I, B-II, C-III, D-IV

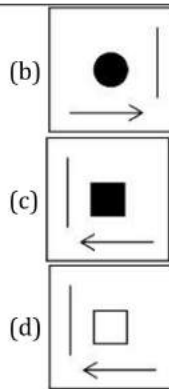
Q34. Which one of the following bills must be passed by each house of the India parliament separately by special majority?

- (a) Money Bill
(b) Finance Bill
(c) Ordinary Bill
(d) Constitutional Amendment Bill

Q35. The average of first 8 multiples of 8 is.

- (a) 41
(b) 45
(c) 36
(d) 31





Q37. At hill station, the boiling point of water will be _____.

- (a) Same as at sea level
- (b) More than that at sea level
- (c) Less than that at sea level
- (d) Equal to the melting point of Ice

Direction (Q38- Q40): A rectangular paper of width 8cm and length 22cm rolled along its width and a cylinder is formed.

On the above Information, Solve the question given below

Q38. The radius of the cylinder is–

- (a) $\frac{2}{7}$ cm
- (b) 7 cm
- (c) $\frac{7}{2}$ cm
- (d) 14 cm

Q39. If the outer surface area of cylinder is painted at the rate of ₹ 0.5/cm², then the total cost of painting is

- (a) ₹88
- (b) ₹176
- (c) ₹78
- (d) ₹186

Q40. The volume of cylinder is

- (a) 98cm³
- (b) 49πcm³
- (c) 49cm³
- (d) 98πcm³

Q41. Match List I with List II

LIST I (Movement/organization)		LIST II (Founder)	
A.	Brahmo Samaj	I.	Henry Vivian Derozio
B.	Satyashodhak Samaj	II.	Gopal Krishna Gokhale
C.	Young Bengal Movement	III.	Raja Ram Mohan Roy
D.	Servants of India society	IV.	Jyotiba Phule

Choose the correct answer from the options given below:

- (a) A-I, B-II, C-III, D-IV
- (b) A-II, B-IV, C-I, D-III
- (c) A-III, B-IV, C-II, D-I
- (d) A-III, B-IV, C-I, D-II

Q42. The headquarter of RBI is situated at–

- (a) Delhi
- (b) Kolkata
- (c) Chennai
- (d) Mumbai

Q43. Who is the chairperson of 15th Finance Commission?

- (a) Y. V. Reddy
- (b) N. K. Singh
- (c) Vijay Kelkar
- (d) C. Rangarajan

Q44. Headquarter of World Health Organization (WHO) is located at:

- (a) Paris
- (b) Geneva
- (c) New York
- (d) Washington D.C.

Q45. Samsung: Mobile :: Action:?

- (a) Cricket
- (b) Shoes
- (c) Fighter
- (d) Movie

Q46. The deepest oceanic trench 'Mariana' is located in -

- (a) Atlantic Ocean
- (b) Arctic Ocean
- (c) Pacific Ocean
- (d) Indian Ocean

Q47. Find the value of $(25)^3 + (-29)^3 + (4)^3$

- (a) -8700
- (b) 0
- (c) 8700
- (d) 2900

Q48. If the area and sum of parallel side of a trapezium are 48 cm² and 48cm respectively. Then the distance between the parallel sides is

- (a) $\frac{1}{2}$ cm
- (b) 1 cm
- (c) 2 cm
- (d) 3 cm

Q49. One TB (Tera Byte) approximately occupies or comprises which of the following data or space size

- (a) 1000 KB
- (b) 1000 GB
- (c) 1024 KB
- (d) 1024 GB

Q50. If 36 persons can finish 50% of work in 12 days. In how many days 72 person can finish the complete work?

- (a) 6
- (b) 3
- (c) 9
- (d) 12

Q51. Who is known as 'Nightingale of India'?

- (a) Vijaya Laxmi Pandit
- (b) Indira Gandhi
- (c) Sarojini Naidu
- (d) Lata Mangeskar

Q52. Which incident led Gandhi ji to with draw non-cooperation movement?
 (a) Kakori episode
 (b) Chauri-Chaura episode
 (c) Yang-bang episode
 (d) Jallianwala Bagh episode

Q53. A shopkeeper offers discount 50% + 50% on a shirt of M.R.P ₹800, find the selling price of the shirt.
 (a) ₹ 700
 (b) ₹ 0
 (c) ₹ 400
 (d) ₹ 200

Q54. Pointing a man in a photograph, Karina Said, 'His mother is the only daughter of my mother,' How is Karina related to the man of photograph.
 (a) Mother
 (b) Sister
 (c) Wife
 (d) Daughter

Q55. If 180 meter long train crosses a pole in 9 seconds, find the speed of train in kilo meter/hour.
 (a) 72 km/h
 (b) 36 km/h
 (c) 20 km/h
 (d) 90 km/h

Q56. Match List I with List II

LIST I (Mountain pass)		LIST II (State)	
A.	Mana	I.	Sikkim
B.	Nathu La	II.	Jammu & Kashmir
C.	Zoji La	III.	Himachal Pradesh
D.	Sipki La	IV.	Uttarakhand

Choose the correct answer from the options given below:

- (a) A-II, B-IV, C-I, D-III
 (b) A-III, B-II, C-IV, D-I
 (c) A-IV, B-I, C-II, D-III
 (d) A-IV, B-I, C-III, D-II

Q57. If the cost of 4 pens and 6 note books is 800, then find the cost of 6 pens and 9 note books.
 (a) ₹ 900
 (b) ₹ 1200
 (c) ₹ 1000
 (d) ₹ 1100

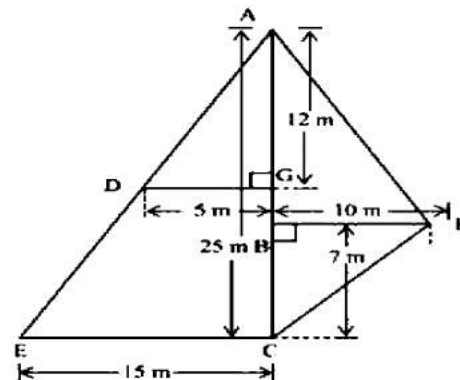
Q58. The value of $\frac{(2 \cdot 7)^3 - (2 \cdot 2)^3}{(2 \cdot 7)^2 + 2 \cdot 7 \times 2 \cdot 2 + (2 \cdot 2)^2}$ is
 (a) 4.9
 (b) 0.5
 (c) 0.05
 (d) 0.49

Q59. EVM Stands for _____.
 (a) Electric Vending Machine
 (b) Electronic Vending Machine
 (c) Electronic Voting Machine
 (d) Electric Voting Machine

Q60. If the volume of a cube is 27cm^3 , then the diagonal of cube is
 (a) 3 cm
 (b) $3\sqrt{3}$ cm
 (c) $\sqrt{3}$ cm
 (d) $\frac{1}{\sqrt{3}}$ cm

Q61. An Atoll is _____.
 (a) A lake in the Crates
 (b) A Lagoon along the shores
 (c) A lake in Glaciated mountains
 (d) A ring-shaped island with a lagoon at the Centre

Direction (Q62 – Q64): Study the adjoining picture and answer the following questions:



Q62. The area of ΔABF is.
 (a) 180 m^2
 (b) 90 m^2
 (c) 125 m^2
 (d) 60 m^2

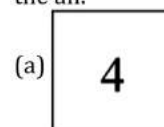
Q63. The area of Trapezium DGCE is.
 (a) 100 m^2
 (b) 260 m^2
 (c) 70 m^2
 (d) 130 m^2

Q64. Area of ΔAFC is.
 (a) 85 m^2
 (b) 75 m^2
 (c) 125 m^2
 (d) 250 m^2

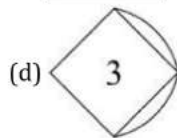
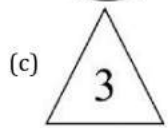
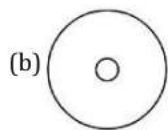
Q65. Which country will host the G-20 summit in 2023?
 (a) Italy
 (b) Germany
 (c) Japan
 (d) India

Q66. If 60% of $80 = x\%$ of 96 , then x is.
 (a) 50
 (b) 40
 (c) 55
 (d) 45

Q67. Which of the following figure is odd one among the all.



(a)



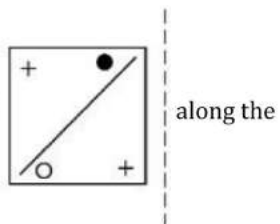
Q68. Sunit is going towards north, after going 8 km he turns left and goes 6 km. What is the distance of Sunit from initial point.

- (a) 14 km
- (b) 10 km
- (c) 8 km
- (d) 6 km

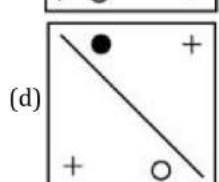
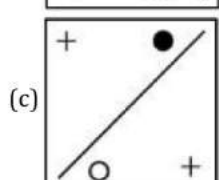
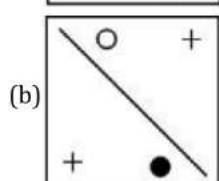
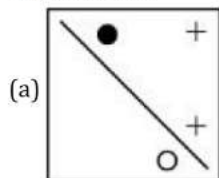
Q69. At which of the following place, weight of an object is maximum?

- (a) At equator
- (b) At poles
- (c) At tropic of Cancer
- (d) At tropic of Capricorn

Q70. The mirror image of



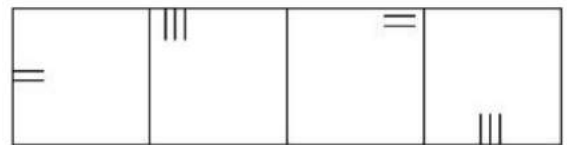
dotted line is



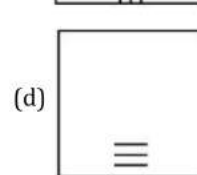
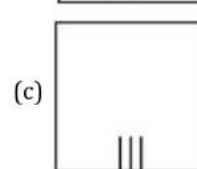
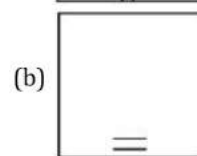
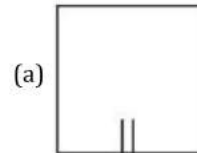
Q71. Indian National Congress was founded by _____.
(a) W.C Banerjee

- (b) A.O Hume
- (c) M.K Gandhi
- (d) J.L Nehru

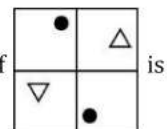
Q72.



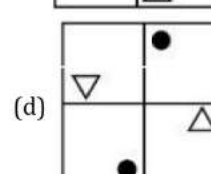
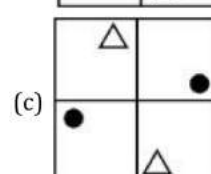
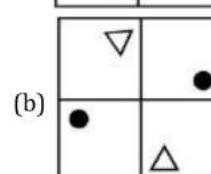
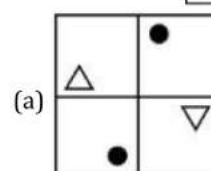
The next figure is



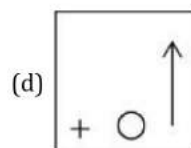
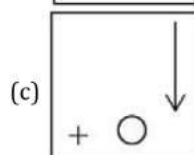
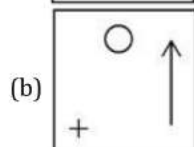
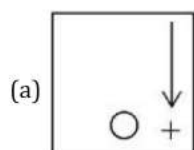
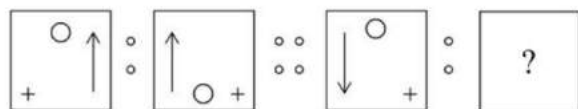
Q73. Water image of



is



Q74.



Q75. Match List I with List II

LIST I (Article)		LIST II (Provision)	
A.	Article 368	I.	Panchayati Raj
B.	Article 40	II.	Emergency Provision
C.	Article 61	III.	Constitution Amendment
D.	Article 352	IV.	Impeachment of President

Choose the correct answer from the option given below:

- (a) A-II, B-I, C-IV, D-III
 (b) A-III, B-I, C-IV, D-II
 (c) A-III, B-IV, C-I, D-II
 (d) A-II, B-IV, C-I, D-III

SOLUTIONS

S1. Ans. (c)

Sol. Actress and Model "Harnaaz Sandhu" was crowned as Miss Universe in Dec 2021.

S2. Ans. (c)

Sol. Let the side of the cube a .

Surface area of the cube $= 6a^2$

In second case, decrease in side $= 50\%$

$$\therefore \text{Side} = \frac{100-50}{100} \times a = \frac{a}{2}$$

$$\therefore \text{Total surface area} = 6 \left(\frac{a}{2} \right)^2 = \frac{6a^2}{4}$$

$$\therefore \text{Change of total surface area} = \frac{\frac{6a^2}{4}}{6a^2} \times 100 = 25\%$$

S3. Ans. (b)

Sol. If $a * b = 3a - 4b$

$$\Rightarrow 3 * 4 = 3(3) - 4(4) = 9 - 16 = -7$$

S4. Ans. (c)

Sol. Each letter in the word is moved two steps forward to obtain the corresponding letter of the code.

S5. Ans. (a)

Sol. In each step, '+' moves one step in anti-clockwise direction and one diagonal is replaced by another in every step.

S6. Ans. (b)

Sol. Let two numbers are x and y

Given: Two numbers are in ratio of 7: 10

$$\Rightarrow x = 7k, y = 10k$$

If the sum of the numbers is 119

$$\Rightarrow 7k + 10k = 119$$

$$= 17k = 119$$

$$= k = 7$$

So, two numbers are $x = 7 \times 7 = 49, y =$

$$10 \times 7 = 70$$

Hence, difference of the two numbers $= y - x =$

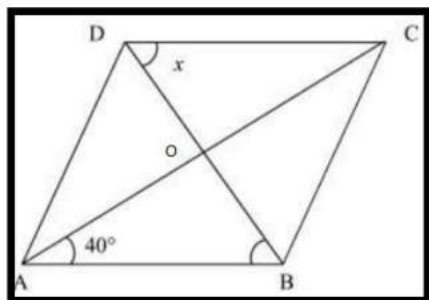
$$70 - 49 = 21$$

S7. Ans. (c)

Sol. General Bipin Rawat was the first Chief of Defence Staff (CDS) of the Indian Armed Forces. He assumed office on January 1, 2020, and held the position until his unfortunate demise in a helicopter crash on December 8, 2021. The position of CDS was created in December 2019 to improve coordination and integration between the three branches of the Indian Armed Forces: the Army, Navy, and Air Force.

S8. Ans. (b)

Sol.



As we know that, $CD \parallel AB$, so alternate angles are equal

$$\Rightarrow \angle CDB = \angle ABD = x$$

Since, Diagonals of a rhombus are perpendicular to each other

In $\triangle AOB$

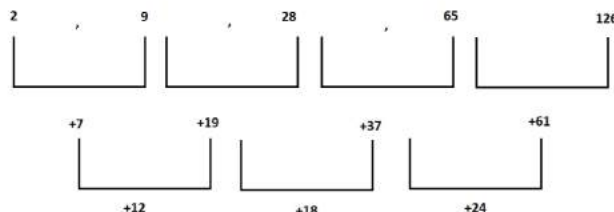
$$\Rightarrow \angle OAB + \angle ABO + \angle BOA = 180^\circ$$

$$\Rightarrow \angle ABO = 180^\circ - 40^\circ - 90^\circ$$

$$\Rightarrow x = 180^\circ - 130^\circ$$

$$\Rightarrow x = 50^\circ$$

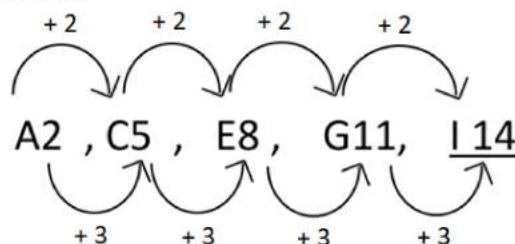
S9. Ans. (b)



S10. Ans. (d)

Sol. "Neeraj Chopra" is associated with Javelin throw sports event.

S11. Ans. (c)



S12. Ans. (b)

Sol. The full form of NABARD is National Bank for Agriculture and Rural Development.

S13. Ans. (c)

Sol. A. $2x - 4 = 2 - x$

$$\Rightarrow 3x = 6$$

$$\Rightarrow x = 2$$

So, $A \rightarrow II$

B. $7 - 4x = 0$

$$\Rightarrow x = \frac{7}{4}$$

So, $B \rightarrow III$

$$C. \frac{x}{2} - 3 = 0$$

$$\Rightarrow x = 6$$

So, $C \rightarrow IV$

D. $2x + 3 = x + 6$

$$\Rightarrow x = 6 - 3$$

$$\Rightarrow x = 3$$

So, $D \rightarrow I$

S14. Ans. (c)

Sol. Jawaharlal Nehru $\rightarrow$ Shanti Van
Lal Bahadur Shastri $\rightarrow$ Vijay Ghat
Rajiv Gandhi $\rightarrow$ Veer Bhumi
Giani Zail Singh $\rightarrow$ Ekta Sthal

S15. Ans. (c)

C D A B E
A is in middle of the row.

S16. Ans. (a)

C D A B E
C at the left end of the row.

S17. Ans. (b)

C D A B E
B is standing between 'A' and 'E'.

S18. Ans. (b)

Sol. Total number of triangles in figure are 10.

S19. Ans. (b)

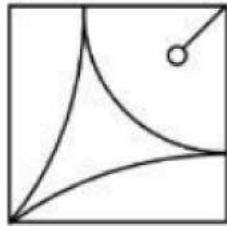
Sol. The Estimates Committee of Parliament has no member from Rajya Sabha. In the Estimate Committee has 30 members & all these members are from Lok Sabha & there is no representation from Rajya Sabha.

S20. Ans. (b)

Sol. New Education Policy - 2020 is goal to achieve 100% gross enrolment Ratio (GER) in School Education by the year 2030.

S21. Ans. (a)

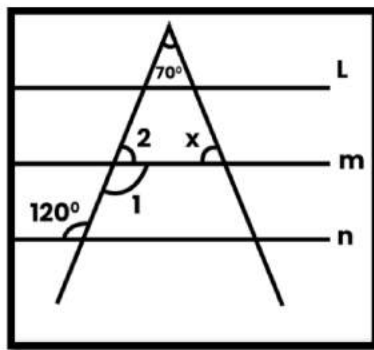
Sol.



Given figure will complete the above figure.

S22. Ans. (d)

Sol.



Since, $l \parallel m \parallel n$

So, alternate angles are equal

$$\angle 1 = 120^\circ$$

$$\Rightarrow \angle 1 + \angle 2 = 180^\circ$$

$$\Rightarrow \angle 2 = 180^\circ - 120^\circ = 60^\circ$$

As we know that, sum of angles of triangle is 180°

$$\Rightarrow \angle 2 + 60^\circ + 70^\circ = 180^\circ$$

$$\Rightarrow \angle 2 = 180^\circ - 130^\circ$$

$$\Rightarrow \angle 2 = 50^\circ$$

S23. Ans. (b)

Sol. World Environment Day - 05 - June.

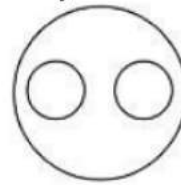
S24. Ans. (c)

Sol. $\text{DOG} = 4 + 15 + 7 = 26$, $\text{FLY} = 6 + 12 + 25 = 43$

So, $\text{BIRD} = 2 + 9 + 18 + 4 = 33$

S25. Ans. (d)

Sol. The above figure is best for father, mother and family.



S26. Ans. (a)

Sol. "Dead Sea" has highest salinity in the world.

S27. Ans. (b)

Sol. Let original price of sugar = Rs. 100

$$\therefore \text{Price of sugar for today} = \text{Rs. } 100 + \text{Rs. } 25 = \text{Rs. } 125$$

In order to bring down the price to original i.e., Rs.

100, its price should be decreased by = Rs. $125 -$

$$\text{Rs. } 100 = \text{Rs. } 25$$

$$\therefore \text{On Rs. } 125, \text{ the price should be decreased by} = \text{Rs. } 25$$

$$\text{On Re. } 1, \text{ the price should be decreased by} = \text{Rs. } \frac{25}{125}$$

$$\text{On Rs. } 100, \text{ the price should be decreased by} =$$

$$\text{Rs. } \frac{25}{125} \times 100 = \text{Rs. } \frac{1}{5} \times 100 = \text{Rs. } 20$$

$$\therefore \text{Price should be decreased by } 20\%$$

S28. Ans. (b)

Sol. Let Mohan's age be = x years

Mohan's mother age = $3x$ years

After 6 years

Mohan's age = $x + 6$ years

Mohan's mother age = $3x + 6$

It is given that after 6 years

$$\Rightarrow 3x + 6 = 2(x + 6)$$

$$= 3x + 6 = 2x + 12$$

$$= x = 6 \text{ years}$$

$$\therefore \text{Age of Mohan is } 6 \text{ years}$$

S29. Ans. (a)

Sol. The United Nations Development Programme (UNDP) published the Human Development Index Report.

S30. Ans. (c)

Sol. Penicillium is a "Fungi".

S31. Ans. (b)

Sol. Number of students left = $35 - 2 = 33$

$$\text{Ramesh's position from last} = 33 + 1 - 24 = 10^{\text{th}}$$

S32. Ans. (a)

Sol. Service Sector $\rightarrow$ Industry or Manufacture Sector $\rightarrow$ Agriculture is the correct sequence in the decreasing order of contribution to the gross domestic product (GDP) in India.

S33. Ans. (c)

Sol.

	Country	Capital
1.	Ukraine	Kiev
2.	Sri - Lanka	Colombo
3.	Jurkiye	Ankara
4.	Poland	Warsaw

S34. Ans. (d)

Sol. "Constitutional Amendment Bill" must be passed by each house of the Indian Parliament separately by special Majority.

S35. Ans. (c)

Sol. First 8 multiples of 8 are 8, 16, 24, 32, 40, 48, 56, 64

So, average of first 8 multiples of 8 =

$$\frac{\text{Sum of numbers}}{\text{total number}} = \frac{8+16+24+32+40+48+56+64}{8} = 36$$

S36. Ans. (a)

Sol. Arrow moves in opposite direction and same is case with straight line. Circle gets coloured.

S37. Ans. (c)

Sol. At hill station, the boiling point of Water will be less than that at sea level.

S38. Ans. (c)

Sol. A rectangular paper of width 8 cm is rolled along its width to form a cylinder.

Circumference of base = 22 cm

$$\Rightarrow 2\pi r = 22$$

$$= r = \frac{22}{2\pi}$$

$$= r = \frac{22 \times 7}{2 \times 22} = \frac{7}{2} \text{ cm}$$

S39. Ans. (a)

Sol. Outer surface area of cylinder = $2\pi rh$

Height of cylinder = 8 cm

Radius of cylinder = $\frac{7}{2}$ cm

$$\Rightarrow \text{Outer surface area of cylinder} = 2 \times \frac{22}{7} \times \frac{7}{2} \times 8 = 176 \text{ cm}^2$$

$$\Rightarrow \text{total cost} = 0.5 \times 176 = ₹88$$

S40. Ans. (d)

Sol. Volume of cylinder = $\pi r^2 h$

$$= \frac{7}{2} \times \frac{7}{2} \times 8\pi = 98\pi \text{ cm}^3$$

S41. Ans. (d)

Sol.

	Movement	Founder
A.	Brahmo Samaj	Raja Ram Mohan Ray
B.	Satyashodhak Samaj	Jyotiba Phule
C.	Young Bengal Movement	Henry Vivian Derozio
D.	Servants of India Society	Gopal Krishna Gokhale

S42. Ans. (d)

Sol. Reserve Bank of India → HQ → Mumbai.

S43. Ans. (b)

Sol. N.K. Singh is the Chairman or Chairperson of 15th Finance Commission.

S44. Ans. (b)

Sol. The Head quarter of World Health Organization is located at Geneva, Switzerland.

S45. Ans. (b)

Sol. Samsung is mobile making company and Action is a shoe making company.

S46. Ans. (c)

Sol. The deepest Oceanic trench Marina is located in Pacific Ocean.

S47. Ans. (a)

$$\text{Sol. } \Rightarrow (25)^3 + (-29)^3 + 4^3 = -8700$$

S48. Ans. (c)

Sol. The area of trapezium is given as 48 cm^2 with the sum of its parallel sides as 48 cm.

Let d be the distance between the parallel sides, then

$$\Rightarrow \text{Area} = \frac{1}{2} (\text{sum of the parallel sides}) \times h$$

$$\Rightarrow 48 = \frac{1}{2} \times 48 \times d$$

$$\Rightarrow d = 2 \text{ cm}$$

S49. Ans. (d)

Sol. One terabyte (TB) is approximately equal to 1024 gigabytes (GB). The storage capacity of digital devices is often measured in these units.

S50. Ans. (d)

Sol. 36 persons can finish 50% of work in 12 days
36 persons can finish 100 % of work in 24 days
We have to find 72 persons will take how many days

So, suppose $x_1 = 36$, $y_1 = 24$, $x_2 = 72$, $y_2 = ?$

Applying inverse proportional formula to solve
As it is the relation between work and time. So, it will be an inverse proportion,

$$\text{So, } \frac{x_2}{x_1} = \frac{y_1}{y_2}$$

$$\Rightarrow \frac{72}{36} = \frac{24}{y_2}$$

$$= y_2 = \frac{24 \times 36}{72} = 12 \text{ days}$$

S51. Ans. (c)

Sol. Sarojini Naidu was known as the Nightingale of India.

S52. Ans. (b)

Sol. Chauri - Chaura Incident lead Gandhiji to withdrew non-cooperator Movement.

S53. Ans. (d)

Sol. A shopkeeper offers discount 50% + 50% on a shirt of M.R.P ₹800

$$\Rightarrow 50\% \text{ on a shirt of M.R.P ₹800} = ₹400$$

$$\Rightarrow \text{A shopkeeper offer discount } 50\% = ₹200$$

So, selling price of shirt is ₹200

S54. Ans. (a)

Sol. Karina will be mother of man in the photograph.

S55. Ans. (a)

$$\text{Sol. Speed} = \frac{\text{Distance}}{\text{Time}} = \frac{\text{Length of train}}{\text{Time taken}} = \frac{180}{9} \text{ m/sec} =$$

$$20 \times \frac{18}{5} \text{ km/hr} = 72 \text{ km/hr}$$

S56. Ans. (c)

Sol.

	List - I (Mountain Pass)	List - II (status)
1.	Mana	Uttarakhand
2.	Nathu La	Sikkim
3.	Zoji La	Jammu & Kashmir

4.	Sipki La	Himachal Pradesh
----	----------	------------------

S57. Ans.(b)

Sol. Let the cost of 1 pen and 1 note book be ₹ x and ₹ y respectively.

$$\Rightarrow 4x + 6y = 800$$

$$= 2x + 3y = 400$$

$$\Rightarrow 6x + 9y = 1200$$

S58. Ans.(b)

Sol.

$$\Rightarrow \frac{(2 \cdot 7)^3 - (2 \cdot 2)^3}{(2 \cdot 7)^2 + 2 \cdot 7 \times 2 \cdot 2 + (2 \cdot 2)^2} = \frac{(2.7 - 2.2)((2.7)^2 + 2.7 \times 2.2 + (2.2)^2)}{((2.7)^2 + 2.7 \times 2.2 + (2.2)^2)} = 2.7 - 2.2 = 0.5$$

S59. Ans. (c)

Sol. EVM stands for Electronic Voting Machine.

S60. Ans.(b)

Sol. Volume of cube = $(side)^3$

Diagonal of cube = $\sqrt{3} \times side$

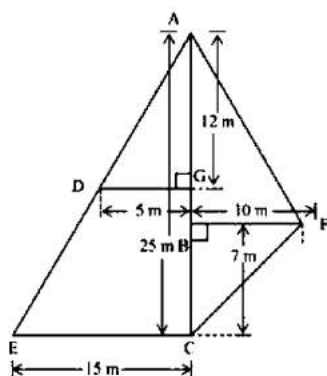
$$\Rightarrow (side)^3 = 27$$

$$\Rightarrow side = 3 \text{ cm}$$

$$\Rightarrow \text{Diagonal of cube} = 3\sqrt{3} \text{ cm}$$

S61. Ans. (d)

Sol. An Atoll is a ring-shaped Island with a lagoon at the centre.



S62. Ans.(b)

Sol. Given : AC = 25 m , AG = 12 m , BC = 7 m

$$\Rightarrow AG + GB + BC = AC$$

$$\Rightarrow 12 + GB + 7 = 25$$

$$\Rightarrow GB = 25 - 12 - 7$$

$$\Rightarrow GB = 25 - 19 = 6 \text{ m}$$

$$\Rightarrow AB = AG + GB = 12 + 6 = 18 \text{ m}$$

In $\triangle ABF$

$$\therefore \text{Required area} = \frac{1}{2} \times BF \times AB = \frac{1}{2} \times 10 \times 18 = 90 \text{ m}^2$$

S63. Ans.(d)

Sol. In Trapezium DGCE

$$\Rightarrow \text{Area of trapezium} = \frac{1}{2} (DG + EC) \times GC$$

$$= \frac{1}{2} (5 + 15) \times (7 + 6)$$

$$= \frac{1}{2} \times 20 \times 13$$

$$= 130 \text{ m}^2$$

S64. Ans.(c)

Sol. Area of $\triangle AFC = \frac{1}{2} \times AC \times BF = \frac{1}{2} \times 25 \times 10 = 125 \text{ m}^2$

S65. Ans. (d)

Sol. The G-20 summit in 2023 was hosted by India.

S66. Ans.(a)

Sol. If 60% of 80 = x% of 96

$$\Rightarrow \frac{60}{100} \times 80 = \frac{x}{100} \times 96$$

$$= 48 = \frac{96x}{100}$$

$$= x = \frac{48 \times 100}{96}$$

$$= x = 50$$

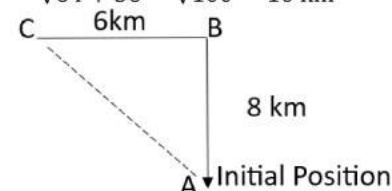
S67. Ans. (b)

Sol. In every figure, there is number inside it except in figure of option (b).

S68. Ans. (b)

Sol. Required Distance = $\sqrt{AB^2 + BC^2}$

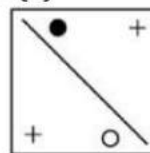
$$= \sqrt{64 + 36} = \sqrt{100} = 10 \text{ km}$$



S69. Ans. (b)

Sol. The weight of an object is maximum at the poles.

S70. Ans. (d)

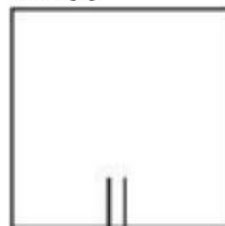


Correct option will be (d)

S71. Ans. (b)

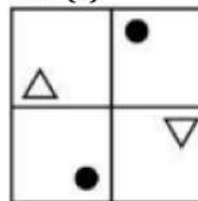
Sol. While several prominent figures played important roles in the Indian National Congress (INC), Allan Octavian Hume was the founder of the organization in 1885.

S72. Ans. (a)



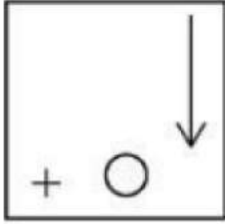
Correct answer would be option (a)

S73. Ans. (a)



Correct answer would be option (a)

S74. **Ans. (c)**



Correct answer would be option (c).

S75. **Ans. (b)**

Sol. Article - 368 → Constitutional Amendment
Article - 40 → Panchayati Raj
Article - 61 → Impeachment of President
Article - 352 → Emergency Provision