Prepp

Your Personal Exams Guide

NDA	CDS	SSC CGL	CBSE UGC NET
IAS	SSC CHSL	CTET	MPSC
AFCAT	CSIR UDC NET	IBPS PO	UP POLICE
SSC MTS	SBI PO	BPSC	UPTET
IBPS RRB	IBPS CLERK	IES	UPSC CAPF
SSC Stenogr..	RRB NTPC	SSC GD	RBI GRADE B
RBI Assistant	DSSSB		

SSC MTS Previous Year Paper (Held on: 26 July 2022 Shift 3)

Total Time: 1 Hour : 30 Minute   **Total Marks:** 100

Instructions

SI No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence & Reasoning	25	25	0.25	1
2	Numerical Aptitude	25	25	0.25	1
3	General English	25	25	0.25	1
4	General Awareness	25	25	0.25	1

1.) A total of 90 minutes is allotted for the examination.

2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.

3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General Intelligence & Reasoning

1. Six people, Ambika, Charu, Riya, Ashi, Rahul and Ajay, are sitting in a straight row facing north (but not necessarily in the same order). Only two people sit between Rahul and Riya. Neither Ajay nor Riya is sitting at any of the corners. Ashi is sitting second to the left of Riya. Ajay and Charu are immediate neighbours. Who is sitting next to Ashi?   **(+1, −0.25)**

   a. Riya

   b. Ajay

   c. Ambika

   d. Rahul

2. Select the option in which the two numbers are related in the same way as are the numbers in the given number-pair.   **(+1, −0.25)**

   40 : 19 :: ?

   a. 28 : 13

   b. 20 : 11

   c. 34 : 17

   d. 46 : 23

3. Among seven brothers, Aman, Bunty, Chintu, Deepak, Ishan, Hari and Golu, Bunty is taller than only four other brothers. Chintu is taller than Deepak. Aman is taller than Hari. Ishan is taller than only Golu, who is the shortest among all the brothers. Bunty is taller than Aman.   **(+1, −0.25)**

Given that no two brothers have the same height, who is the tallest among the seven brothers?

a. Hari

b. Aman

c. Chintu

d. Deepak

---

4. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.   **(+1, -0.25)**

CA : GH :: TK : ?

a. XR

b. YR

c. YS

d. XS

---

5. In a certain code language, if star is called moon, moon is called planet, planet is called sun, sun is called solar system, and solar system is called galaxy, then what is the Earth's only natural satellite?   **(+1, -0.25)**

a. Galaxy

b. Sun

c. Planet

d. Moon

6. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.   (+1, -0.25)

   SON : TPO :: BRO : CSP :: BIL : ?

   a. CHM

   b. CJN

   c. CJM

   d. DJM

7. Select the figure from among the given options that can replace the question mark (?) in the following series.   (+1, -0.25)

a.

b.

c.

d.

---
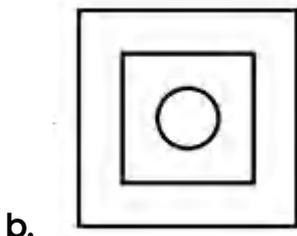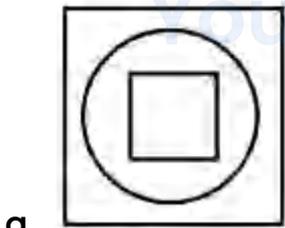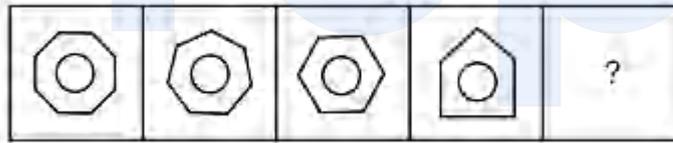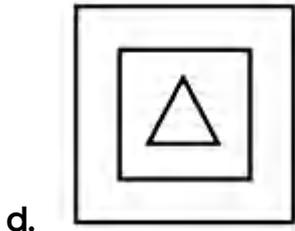
8. In a certain code language, 'GEAR' is coded as '16', 'ANT' is coded as '9' and **(+1, −0.25)**
'HEART' is coded as '25'. How will 'TEAR' be coded in that language?

  a. 16

  b. 49

  c. 9

  d. 36

---

9. Which two signs need to be interchanged to make the following equation **(+1, −0.25)**
correct?

72 − 12 + 8 × 6 ÷ 22 = 32

  a. − and ×

  b. − and +

  c. × and +

  d. − and ÷

10. What will be the value of the following expression, if '+' and '−' are interchanged and '×' and '÷' are interchanged?   **(+1, −0.25)**

5 − 3 ÷ 8 × 12 + 4

a. 2

b. 3

c. 14

d. 42

11. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?   **(+1, −0.25)**

a.

b.

c.

d.

---
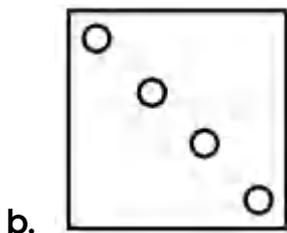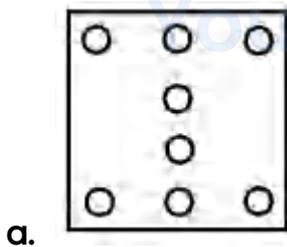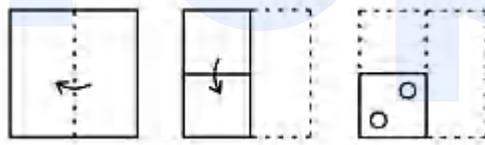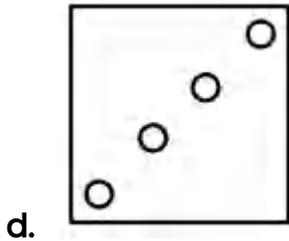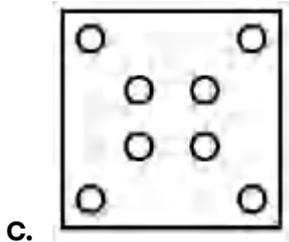
12. Six friends are sitting around a circular table facing the centre. Aman is sitting second right to Sneha. Tushar is immediate left to Sneha. Ritika is not the immediate neighbour of either Sneha or Tushar. Ritika is sitting second right to Prerna. Sharique is sitting in between Ritika and Tushar. Who is is the immediate neighbour of both Tushar and Prerna ? **(+1, −0.25)**

a. Ritika

b. Sharique

c. Aman

d. Sneha

---

13. Select the figure that will come next in the following figure series. **(+1, −0.25)**

a.

b.

c.

d.
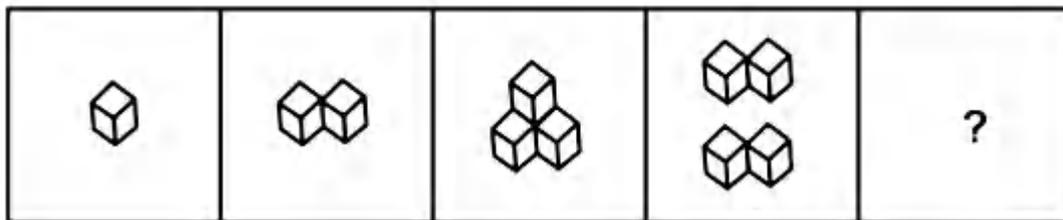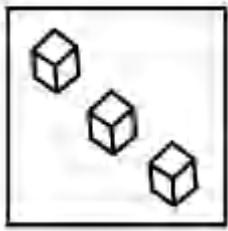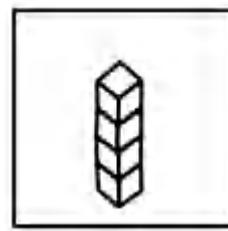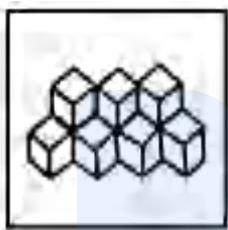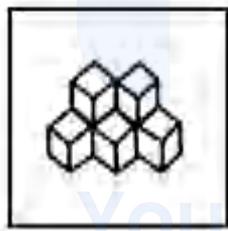
14. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.   (+1, -0.25)

39 : 72 :: 217 : 428 :: 135 : ?

a. 153

b. 137

c. 264

d. 298

---

15. In a certain code language, 'HALT' is written as 'SZOG', and 'CROM' is written   (+1, -0.25)
    as 'XILN'. How will 'PIGY' be written in that language?

    a. KRBT

    b. KSBT

    c. KRTB

    d. KSTB

---

16. Read the given statements and conclusions carefully. Assuming that the   (+1, -0.25)
    information given in the statements is true, even if it appears to be at
    variance with commonly known facts, decide which of the given
    conclusions logically follow(s) from the statements.

    Statements:

    I. No B is L.

    II. No C is B.

    Conclusions:

    I. Some L are C.

    II. Some B are C.

    a. Both conclusions I and II follow

    b. Only conclusion I follows

    c. Neither conclusion I nor II follows

d. Only conclusion II follows

---

17. Select the number from among the given options that can replace the question mark (?) in the following series.

21, 23, 20, 22, 19, 21, ?

a. 17

b. 18

c. 23

d. 22

(+1, -0.25)

---

18. In a certain code language, 'RARE' is written as '2' and 'CAT' is written as '1'. How will 'RICKSAW' be written in that language?

a. 4

b. 2

c. 3

d. 8

(+1, -0.25)

---

19. Select the option in which the given figure is embedded.(Rotation is not allowed)

(+1, -0.25)

a.

b.

c.

d.

20. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.   (+1, -0.25)

PC, NA, LY, JW, ?

a. HU

b. IU

c. IV

d. HV

21. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.   (+1, -0.25)

VIOLET : WUJHPNMKFDUS :: RING : SQJHOMHF :: NEED : ?

a. OMFDFDEC

b. CEDFFDMO

c. NEEDDEEN

d. ONFEFEED

---

22. Select the figure from the options that can replace the question mark (?)   (+1, -0.25)
    and complete the pattern.
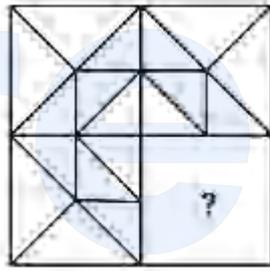
a.
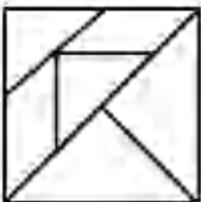
b.
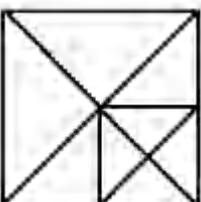
c.
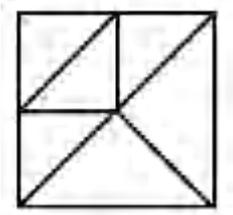
d.

---

23. Select the figure from the options that can replace the question mark (?) (+1, −0.25) and complete the pattern (rotation is not allowed).

a.
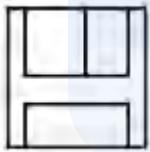
b.
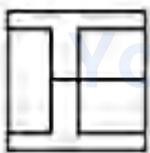
c.
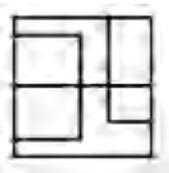
d.

---

24. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

(+1, -0.25)

3678 : 3747 :: 1052 : 1121 :: 96 : ?

a. 1025

b. 822

c. 165

d. 467

---

25. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

(+1, -0.25)

Statements:

Some fans are bulbs.

Some bulbs are tube lights.

Some tube lights are coolers.

Conclusions:

I. Some fans are coolers.

II. Some tube lights are fans.

a. Only conclusion II follows

b. Only conclusion I follows

c. Both conclusions I and II follow

d. Neither conclusion I nor II follows

Numerical Aptitude

26. A car travels 120 km in 4 hours. Calculate its average speed in m/sec. **(+1, −0.25)**
[Give your answer correct to one decimal place.]

    a. 8.3 m/s

    b. 10.3 m/s

    c. 3.8 m/s

    d. 9.3 m/s

---

27. If the mean of five numbers 1, 2, 3, 5, and x is 2.4, then find the value of x. **(+1, −0.25)**

    a. 2

    b. 4

    c. 1

    d. 3

---

28. The ratio of the salaries of Abhi and Monu is 6 : 11. If their salaries are **(+1, −0.25)**
increased by 10 per cent and 12 per cent, respectively, then what will be
the new ratio of their salaries?

    a. 12 : 13

    b. 5 : 3

    c. 17 : 23

    d. 15 : 28

29. If 256, K, 81 are in proportion, and K is positive, then what is the value of K?   **(+1, -0.25)**

    a. 156

    b. 126

    c. 144

    d. 164

30. What is the value of $\frac{5}{11} \; of \; \frac{3}{7} + \frac{7}{11} \times \frac{55}{21} - \frac{8}{22} \div \frac{16}{33}$?   **(+1, -0.25)**

    a. $\frac{1088}{927}$

    b. $\frac{1027}{924}$

    c. $\frac{1811}{956}$

    d. $\frac{1029}{945}$

31. The radius of a sphere is 14 cm. What is the surface area of this sphere?   **(+1, -0.25)**
    $\left[\text{Use } \pi = \frac{22}{7} \right]$

    a. 2464 cm^2

    b. 1232 cm^2

    c. 1848 cm^2

    d. 616 cm^2

32. What is the increase in the volume of a cube of 1 unit edge if each of its edges is tripled? **(+1, −0.25)**

   a. 26 cu units

   b. 29 cu units

   c. 28 cu units

   d. 27 cu units

---

33. A shopkeeper sold 24 shirts, each at a profit of 20% and 16 shirts, each at a profit of 10%. If he had sold all the 40 shirts, each at a profit of 15%, then his overall profit would have been reduced by Rs. 36. What is the cost price of each shirt? **(+1, −0.25)**

   a. Rs. 100

   b. Rs. 220

   c. Rs. 90

   d. Rs. 150

---

34. Study the given bar-graph and answer the question that follows. **(+1, −0.25)**

The bar-graph represents the voting for class monitor in class 9.
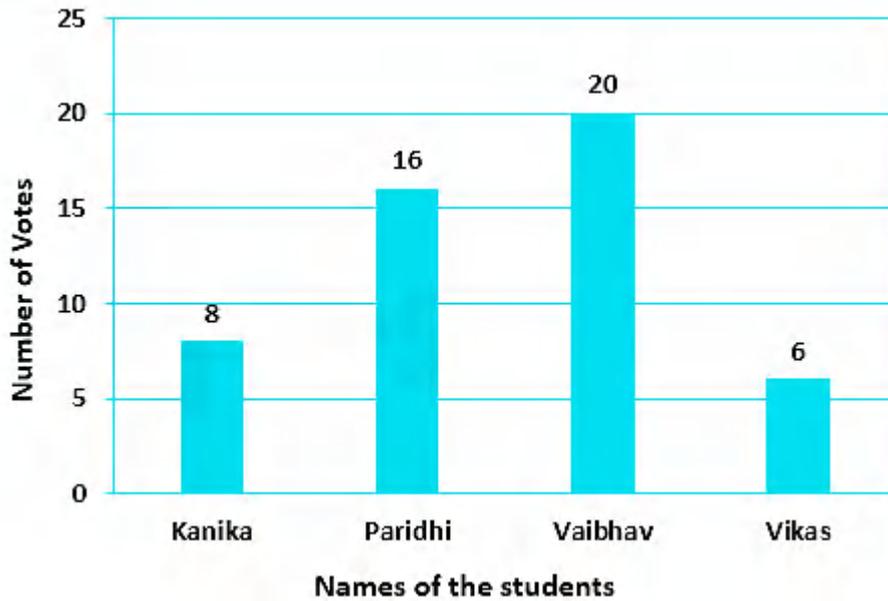
In percentage figures how many more votes did Vaibhav get than Paridhi?

a. 10 per cent

b. 4 per cent

c. 20 per cent

d. 25 per cent

---

35. What is the value of x in the following equation?   (+1, –0.25)

12.50 ÷ 0.005 + 25 ÷ 0.5 + 5 = x

a. 2555

b. 2005

c. 2000

d. 2050

---

36. Study the given table and answer the question that follows.   (+1, -0.25)

The table shows the number of copies of a book sold by seven different shops on a particular day.

Shops	Copies sold of the book
S1	42
S2	38
S3	61
S4	39
S5	51
S6	59
S7	60

The cost of each copy of the book is Rs. 70. What is the total cost of all the copies of the book that got sold on that day from all these seven shops taken together?

a. Rs. 30,500

b. Rs. 21,500

c. Rs. 24,500

d. Rs. 27,500

---

37. If 2 : x :: 4 : 28, then find the value of x.   (+1, -0.25)

a. 15

b. 12

c. 13

d. 14

---

38. A girl goes from M to N at a speed of 25 km/h and returns to M at a speed of 37.5 km/h, via the same route. What is the girl's average speed (in km/h)? **(+1, -0.25)**

a. 30

b. 32

c. 31.25

d. 27.5

---

39. X sold a toy to Y at a profit of 50% and Y sold it Z at a loss of 50%. If X purchased this toy for Rs. 12.000, then at what price did Z purchase this toy from Y? **(+1, -0.25)**

a. Rs. 7,580

b. Rs. 8,500

c. Rs. 8,000

d. Rs. 9,000

---

40. The pie chart given below shows the number of pens sold by each of 8 different shops in a month as a percentage of the total number of pens **(+1, -0.25)**

sold by these 8 shops taken together in that month.
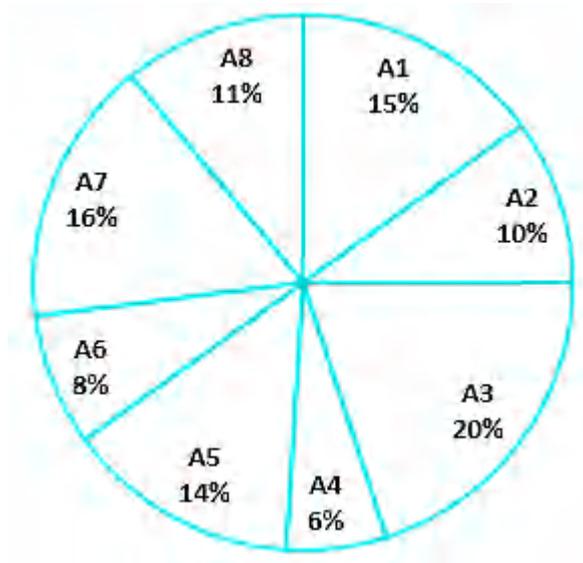
What will be the sum of the central angles made by the sectors A1 and A4?

a. 75.6°

b. 59.6°

c. 84.4°

d. 68.2°

---

41. The average marks of a student in six subjects was initially 110. After re-evaluation, in one subject the marks obtained was reduced from 148 to 112, while in the rest of the subjects the marks remained unchanged. What is the new average marks? **(+1, −0.25)**

a. 102

b. 108

c. 106

d. 104

---

42. 12 men can weave 20 shawls in 9 days. How many men will be required to weave 25 shawls in 27 days?   **(+1, -0.25)**

a. 3

b. 5

c. 4

d. 6

---

43. 15 men can do a work in 15 days working 8 hours a day. N men can do twice the work in 20 days working 10 hours a day. What is the value of N?   **(+1, -0.25)**

a. 14

b. 12

c. 16

d. 18

---

44. If.an item whose marked price is Rs. 1,000 is sold after two successive discounts of 10% and 15%, then find the price at which the item is sold.   **(+1, -0.25)**

a. Rs. 775

b. Rs. 745

c. Rs. 755

d. Rs. 765

---

45. In an election between 2 candidates, the winning candidate got 55% of the valid votes. 5% of the total votes were invalid. If the total number of votes polled were 10000, then how many votes were obtained by the losing candidate? **(+1, −0.25)**

   a. 4425

   b. 4625

   c. 4550

   d. 4275

---

46. Find the smallest natural number 'x' that must be subtracted from 1800 so that (1800 − x), when divided by 7, 11 and 23, will leave 5 as the remainder in each case. **(+1, −0.25)**

   a. 24

   b. 25

   c. 26

   d. 20

---

47. A train can completely cross a 1000-metre long bridge in 15 seconds. It can completely cross another 1300-metre long bridge in 19 seconds. What is the length of the train? **(+1, −0.25)**

   a. 125 metres

   b. 200 metres

   c. 150 metres

d. 175 metres

---

48. If the price of a washing machine is first increased by 25% and then decreased by 25%, then the net change in price will be a: **(+1, -0.25)**

    a. 6.5% increase

    b. 6.5% decrease

    c. 6.25% decrease

    d. 6.25% increase

---

49. The length of a rope, by which a calf is tied, is decreased from 9 m to 5 m. Find the decrease in the area that can be grazed by the calf. $\left[\text{Use } \pi = \frac{22}{7}\right]$ **(+1, -0.25)**

    a. 112 m^2

    b. 154 m^2

    c. 122 m^2

    d. 176 m^2

---

50. A sum of money, when invested at the rate of 6.25% simple interest per annum, amounts to $\frac{11}{8}$ times of itself in 'n' years. What is the value of 'n'? **(+1, -0.25)**

    a. 6

    b. 8

    c. 5

d. 7

General English

51. Select the most appropriate option to fill in the blank.   **(+1, –0.25)**

I _ _ _ _ _ _ _ _ _ _ walked down the stairs, careful to be as quiet as possible.

    a. furiously

    b. neatly

    c. orderly

    d. cautiously

---

52. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.   **(+1, –0.25)**

I am looking forward / to meets you / at the convocation party.

    a. to meets you

    b. at the convocation party

    c. I am looking forward

    d. No error

---

53. Select the most appropriate ANTONYM of the given word.   **(+1, –0.25)**

Escalate

    a. Attack

    b. Pretend

c. Plunge

d. Employ

---

54. Select the most appropriate option to fill in the blank. **(+1, -0.25)**

Most natural diamonds have some type of _ _ _ _ _ _.

a. flow

b. flaw

c. flour

d. floor

---

55. Select the option that will improve the underlined part of the given **(+1, -0.25)**
sentence. In case no improvement is needed, select 'No improvement
required'.

The eggs <u>are warm into</u> a suitable temperature for the larvae to hatch
from eggs.

a. No improvement required

b. are warmed for

c. are warmed to

d. is warmed at

---

56. Select the most appropriate option to substitute the underlined segment **(+1, -0.25)**
in the given sentence. If there is no need to substitute it, select 'No
substitution required'.

Peterkin readjusted his hat and soon was listening to the conversation with <u>as much interest</u> as I was.

a. so many interest

b. so much interest

c. as many interest

d. No substitution required

---

57. Select the most appropriate synonym of the given word.   (+1, -0.25)

Delighted

a. Disliked

b. Unsuited

c. Joyful

d. Coarse

---

58. Select the most appropriate option to fill in the blank.   (+1, -0.25)

It was the last _____ of the puzzle.

a. priest

b. pique

c. piece

d. peace

---

59. Select the most appropriate option to fill in the blank.   **(+1, -0.25)**

My father _ _ _ _ _ _ home last week.

   a. go

   b. gone

   c. has gone

   d. went

60. Select the option that can be used as a one-word substitute for the given   **(+1, -0.25)**
group of words.

A collection of selected writings of various authors

   a. Trilogy

   b. Sequel

   c. Anthology

   d. Etymology

61. Select the correctly spelt word.   **(+1, -0.25)**

   a. Exeacutve

   b. Exacutive

   c. Exicutive

   d. Executive

62. Select the most appropriate meaning of the given idiom.   (+1, -0.25)

By hook or by crook

a. By a narrow margin

b. By any means

c. By default

d. By mistake

---

63. Select the option that corrects the incorrectly spelt words in the given   (+1, -0.25)
sentence.

Her expresion grew blaend again.

a. Her expression grew bland again.

b. Her expression grew blend again.

c. Her expression grew blaend again.

d. Her expretion grew blaned again.

---

64. Select the most appropriate option to fill in the blank.   (+1, -0.25)

It's not possible to _ _ _ _ _ _ this house in this amount.

a. astonish

b. console

c. bleat

d. renovate

65. Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. **(+1, -0.25)**

Soon or later, our efforts will be rewarded.

a. be rewarded

b. Soon or later

c. our efforts will

d. No error

66. Select the most appropriate meaning of the given idiom. **(+1, -0.25)**

Bolt from the blue

a. To receive unexpected news

b. To get good news

c. To win a large sum of money

d. To get lucky

67. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. **(+1, -0.25)**

I have not saw / your sister since she / came to this city.

a. I have not saw

b. No error

c. your sister since she

d. came to this city

---

68. Select the option that can be used as a one-word substitute for the given group of words.   **(+1, -0.25)**

A short story with a moral

a. Memoir

b. Parable

c. Biography

d. Axiom

---

69. Select the most appropriate synonym of the given word.   **(+1, -0.25)**

Imitate

a. Surrender

b. Copy

c. Imagine

d. Invent

---

70. Select the most appropriate ANTONYM of the given word.   **(+1, -0.25)**

Variety

a. Similarity

b. Fusion

c. Diversity

d. Medley

---

71. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

    (+1, -0.25)

    Every now and then there are going to be bad days, tough days, moods swings and all things nasty that may put a (1) _ _ _ _ _ _ on our happy days. At any given moment, however, we are the ones who can make a (2)_ _ _ _ _ _ between letting these things get in the way or pushing them right out by (3) _ _ _ _ _ _ time in things or people (4) _ _ _ _ _ _ make us happy. I've had this list of things that has made me happy for years now. I made it back in college to help me deal with some difficult times that I faced then. Even today, every now and then when things go (5) _ _ _ _ _ _ I always go back to this, and one or more things listed here always lights me up!

    Select the most appropriate option to fill in blank number 1.

    a. makeup

    b. smile

    c. marker

    d. damper

---

72. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

    (+1, -0.25)

Every now and then there are going to be bad days, tough days, moods swings and all things nasty that may put a (1) _ _ _ _ _ _ on our happy days. At any given moment, however, we are the ones who can make a (2)_ _ _ _ _ _ between letting these things get in the way or pushing them right out by (3) _ _ _ _ _ _ time in things or people (4) _ _ _ _ _ _ make us happy. I've had this list of things that has made me happy for years now. I made it back in college to help me deal with some difficult times that I faced then. Even today, every now and then when things go (5) _ _ _ _ _ _ I always go back to this, and one or more things listed here always lights me up!

Select the most appropriate option to fill in blank number 2.

a. choice

b. difference

c. gap

d. bridge

---

73. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, −0.25)

Every now and then there are going to be bad days, tough days, moods swings and all things nasty that may put a (1) _ _ _ _ _ _ on our happy days. At any given moment, however, we are the ones who can make a (2)_ _ _ _ _ _ between letting these things get in the way or pushing them right out by (3) _ _ _ _ _ _ time in things or people (4) _ _ _ _ _ _ make us happy. I've had this list of things that has made me happy for years now. I made it back in college to help me deal with some difficult times that I faced then. Even today, every now and then when things go (5) _ _ _ _ _ _ I always go back to this, and one or more things listed here always lights me up!

Select the most appropriate option to fill in blank number 3.

a. investing

b. spending

c. expanding

d. spreading

---

74. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.   (+1, -0.25)

Every now and then there are going to be bad days, tough days, moods swings and all things nasty that may put a (1) _____ on our happy days. At any given moment, however, we are the ones who can make a (2)_____ between letting these things get in the way or pushing them right out by (3) _____ time in things or people (4) _____ make us happy. I've had this list of things that has made me happy for years now. I made it back in college to help me deal with some difficult times that I faced then. Even today, every now and then when things go (5) _____ I always go back to this, and one or more things listed here always lights me up!

Select the most appropriate option to fill in blank number 4.

a. which

b. whom

c. who

d. where

75. **Direction:** In the following passage, some words have been deleted. Read   (+1, −0.25)
    the passage carefully and select the most appropriate option to fill in
    each blank.

Every now and then there are going to be bad days, tough days, moods
swings and all things nasty that may put a (1) _ _ _ _ _ _ on our happy
days. At any given moment, however, we are the ones who can make a
(2)_ _ _ _ _ _ between letting these things get in the way or pushing them
right out by (3) _ _ _ _ _ _ time in things or people (4) _ _ _ _ _ _ make us
happy. I've had this list of things that has made me happy for years now. I
made it back in college to help me deal with some difficult times that I
faced then. Even today, every now and then when things go (5) _ _ _ _ _ _ I
always go back to this, and one or more things listed here always lights
me up!

Select the most appropriate option to fill in blank number 5.

a. wrong

b. slow

c. right

d. fast

General Awareness

76. What is the duration of a football match (in regular time)? **(+1, -0.25)**

    a. 90 minutes

    b. 80 minutes

    c. 70 minutes

    d. 60 minutes

---

77. What is the total number of periods and groups in the Modern Periodic Table? **(+1, -0.25)**

    a. Period: 7 Group: 18

    b. Period : 7 Group: 9

    c. Period : 18 Group: 7

    d. Period : 9 Group: 7

---

78. In which year did India win its first International Cricket Council(ICC) ODI World Cup? **(+1, -0.25)**

    a. 2011

    b. 1983

    c. 2007

    d. 1992

---

79. Bhagwant Mann became the Chief Minister of _ _ _ _ _ _ _ in March 2022. **(+1, -0.25)**

   a. Himachal Pradesh

   b. Haryana

   c. Delhi

   d. Punjab

80. Sayyid Ahmed Khan founded Mohammedan Anglo-Oriental College in _ _ _ _ _ _ _ _ in 1875. **(+1, -0.25)**

   a. Aligarh

   b. Delhi

   c. Lahore

   d. Calcutta

81. Vedantam Satyanarayana Sarma is known for which classical dance form? **(+1, -0.25)**

   a. Mohiniyattam

   b. Kuchipudi

   c. Kathak

   d. Kathakali

82. The revenue system of Mughal period during Akbar's reign was called   **(+1, -0.25)**
_ _ _ _ _ _.

    a. Zabt

    b. Charai

    c. Ghari

    d. Iqta

83. The Government of India flagship scheme called UJALA completed 7   **(+1, -0.25)**
years in January 2022. Under this scheme the Ministry of Power
distributed _ _ _ _ _ _.

    a. electric fans

    b. air conditioners

    c. LED bulbs

    d. fluorescent lamps

84. Which of the following is a neighbouring country of India?   **(+1, -0.25)**

    a. Australia

    b. Iran

    c. Russia

    d. Maldives

85. The deficiency of which of the following vitamins causes Pellagra?   (+1, -0.25)

    a. B1

    b. B5

    c. B3

    d. B2

86. The Deccan festival is a five-day long festival which reflects the culture of   (+1, -0.25)
    the Deccan. The festival is associated with which state?

    a. Kerala

    b. Karnataka

    c. Maharashtra

    d. Andhra Pradesh

87. Which Fundamental Right was removed by the Forty-fourth   (+1, -0.25)
    Constitutional Amendment Act?

    a. Compulsory acquisition of property

    b. Right to education

    c. Protection of interests of minorities

    d. Abolition of titles

88. The Constitution of India has given power to the Supreme court to issue certain writs. How many types of these writs are mentioned in the constitution?   (+1, −0.25)

   a. Four

   b. Five

   c. Two

   d. Six

89. Harmandar Sahib is situated in which city of Punjab?   (+1, −0.25)

   a. Bathinda

   b. Amritsar

   c. Kapurthala

   d. Patiala

90. Which of the following books was written by Indian author RK Narayan?   (+1, −0.25)

   a. The White Tiger

   b. Think Like a Monk

   c. The Shadow Lines

   d. Malgudi Days

91. Who among the following is referred to as 'Prince of Bhangra', due to his Bhangra music? (+1, -0.25)

    a. Diljit Dosanjh

    b. Sukhbir Singh

    c. Arijit Singh

    d. Shaan

92. Through which of the following states does the Brahmaputra river enter India? (+1, -0.25)

    a. Punjab

    b. Manipur

    c. Assam

    d. Arunachal Pradesh

93. Which of the following is also known as 'New Stone Age' in the civilisation history of India? (+1, -0.25)

    a. Epipaleolithic

    b. Mesolithic

    c. Paleolithic

    d. Neolithic

94. Mushroom rocks are formed due to _ _ _ _ _.   (+1, -0.25)

   a. glacial deposition

   b. deposition of sea waves

   c. running water erosion

   d. wind erosion

---

95. Angiosperms are divided into _ _ _ _ _ _ groups on the basis of the   (+1, -0.25)
   number of cotyledons present in the seed.

   a. Two

   b. Four

   c. Five

   d. Three

---

96. _ _ _ _ _ _ _ _ _ is a type of mask dance that tells mythological stories via   (+1, -0.25)
   ferocious martial moves, popular in Odisha.

   a. Paika

   b. Danda-Jatra

   c. Chhau

   d. Jhumar

---

97. Which tax slab is applied in India if Individual taxpayer's annual taxable income is more than ₹15 lakh?   (+1, −0.25)

  a. 40%

  b. 20%

  c. 30%

  d. 10%

98. Tea cultivation is an example of which type of agriculture system?   (+1, −0.25)

  a. Shifting agriculture

  b. Plantation agriculture

  c. Mediterranean agriculture

  d. Mixed agriculture

99. Who among the following British Viceroys partitioned Bengal in 1905?   (+1, −0.25)

  a. Lord Curzon

  b. Lord Lytton

  c. Lord Hardinge

  d. Lord Irwin

100. As per Census 2011, which of the following states of India has the highest population?   (+1, −0.25)

a. Uttar Pradesh

b. Tamil Nadu

c. Bihar

d. Chhattisgarh
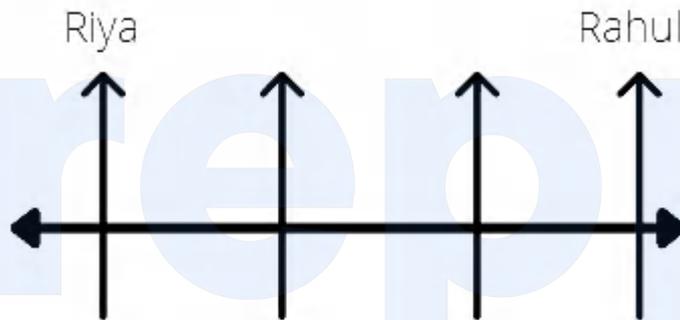
Answers

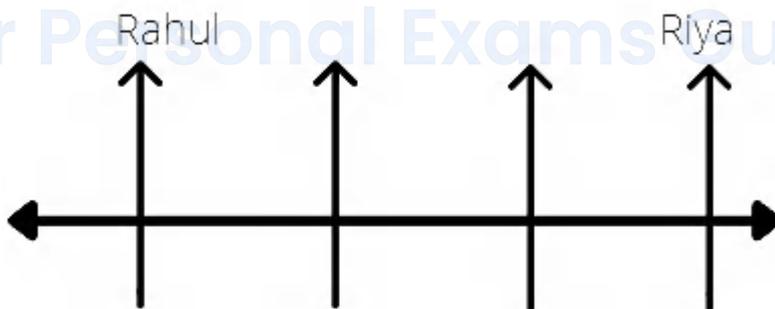1. **Answer: c**

   Explanation:

   Six people, Ambika, Charu, Riya, Ashi, Rahul and Ajay, are sitting in a straight row facing north (but not necessarily in the same order .

   1) Only two people sit between Rahul and Riya

   Case (i) :

   Case (ii) :

   2) Neither Ajay nor Riya is sitting at any of the corners.

   3) Ashi is sitting second to the left of Riya

   Case (i) :

Ashi   Riya   Rahul

↑ ↑ ↑ ↑ ↑ ↑

←————————————————————————→

Case (ii) :

Rahul Ashi   Riya

↑ ↑ ↑ ↑

←————————————————————————→
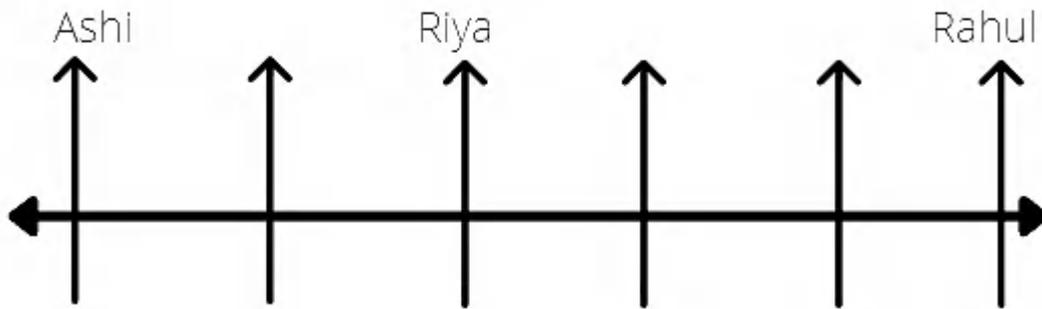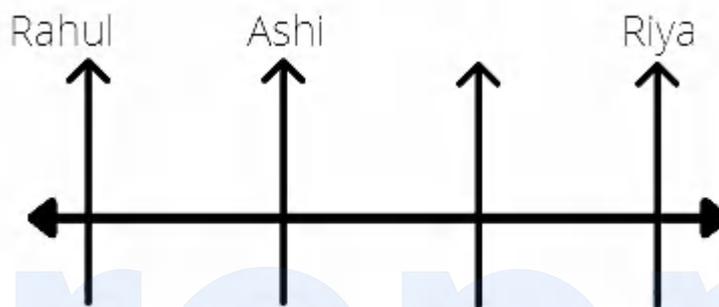
4) Ajay and Charu are immediate neighbours

Case (i) :

Ashi Ambika Riya Ajay Charu Rahul

↑ ↑ ↑ ↑ ↑ ↑

←————————————————————————→

Case (ii) :

Charu Ajay Rahul Ashi Ambika Riya

↑ ↑ ↑ ↑ ↑ ↑

←————————————————————————→
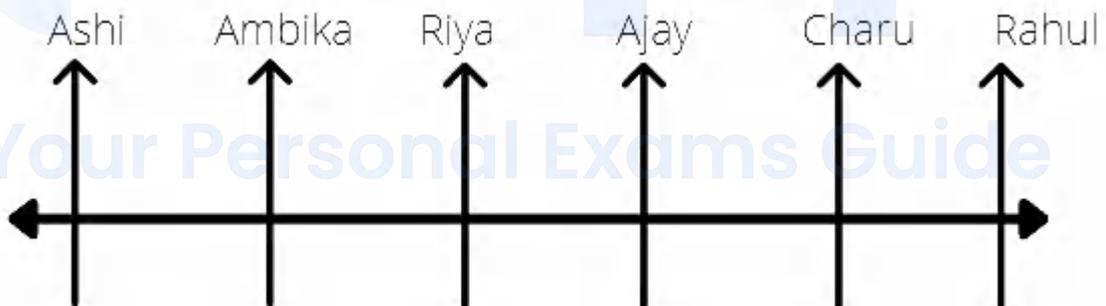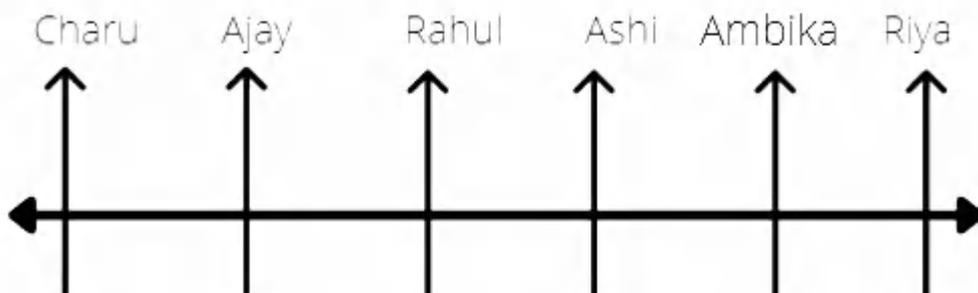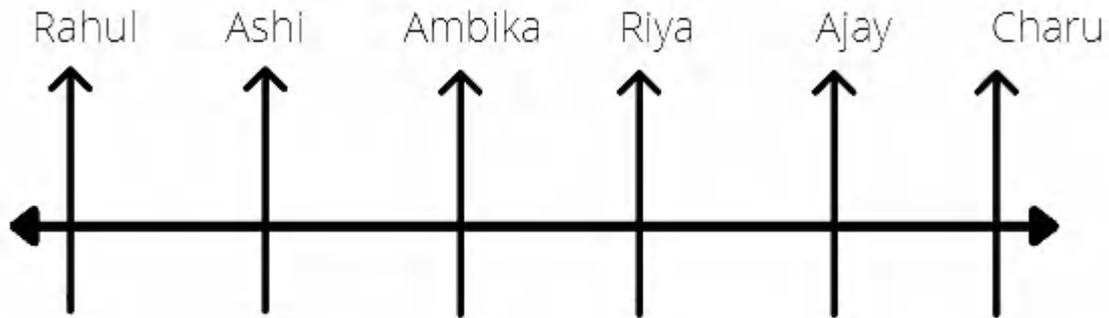
Case (iii) :

⇒ Case (ii) is rejected because Riya is not sitting at any corner.

∴ Here, the person sitting next to Ashi is ' **Ambika** ' in any case.

Hence, the **option 3)** is the correct answer. .

---

2. **Answer: a**

Explanation:

The logic followed here is:

(Second number + 1) × 2 = First number

Given: 40 : 19 ⇒ (19 + 1) × 2 = 20 × 2 = 40

Let's check options now:

1) **28 : 13** ⇒ (13 + 1) × 2 = 14 × 2 = **28**

2) 20 : 11 ⇒ (11 + 1) × 2 = 12 × 2 = 24 ≠ 20

3) 34 : 17 ⇒ (17 + 1) × 2 = 18 × 2 = 36 ≠ 34

4) 46 : 23 ⇒ (23 + 1) × 2 = 24 × 2 = 48 ≠ 46

Hence, **option 1)** is the correct answer.

---

3. Answer: c

Explanation:

The logic followed here is:

1) Bunty is taller than only four other brothers

⇒ **Bunty** > _ > _ > _ > _

2) Chintu is taller than Deepak

⇒ Chintu > Deepak

3) Aman is taller than Hari

⇒ Aman > Hari

4) Ishan is taller than only Golu, who is the **shortest** among all the brothers

⇒ Ishan > Golu

5) Bunty is taller than Aman

⇒ Bunty > Aman > Hari > Ishan > Golu

So, the correct order will be ⇒ Chintu > Deepak > **Bunty > Aman > Hari > Ishan > Golu**

So, **Chintu** is the tallest among the seven brothers.

Hence, **option 3)** is the correct answer.

---

4. Answer: a

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is:

- In CA : GH

o .

- Similarly, In **TK** : ?
  -

$$T \xrightarrow{-2} X \qquad K \xrightarrow{-7} R$$
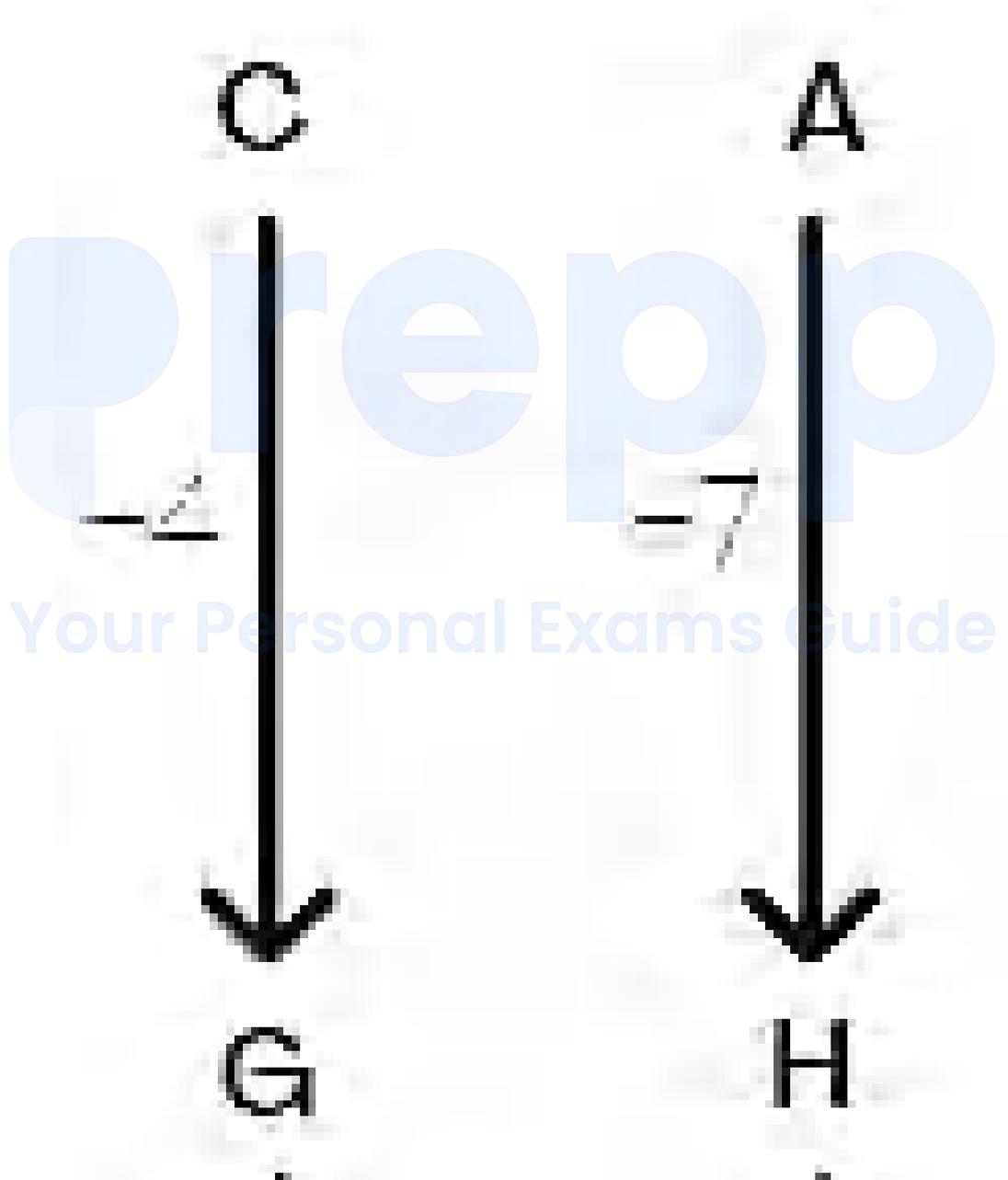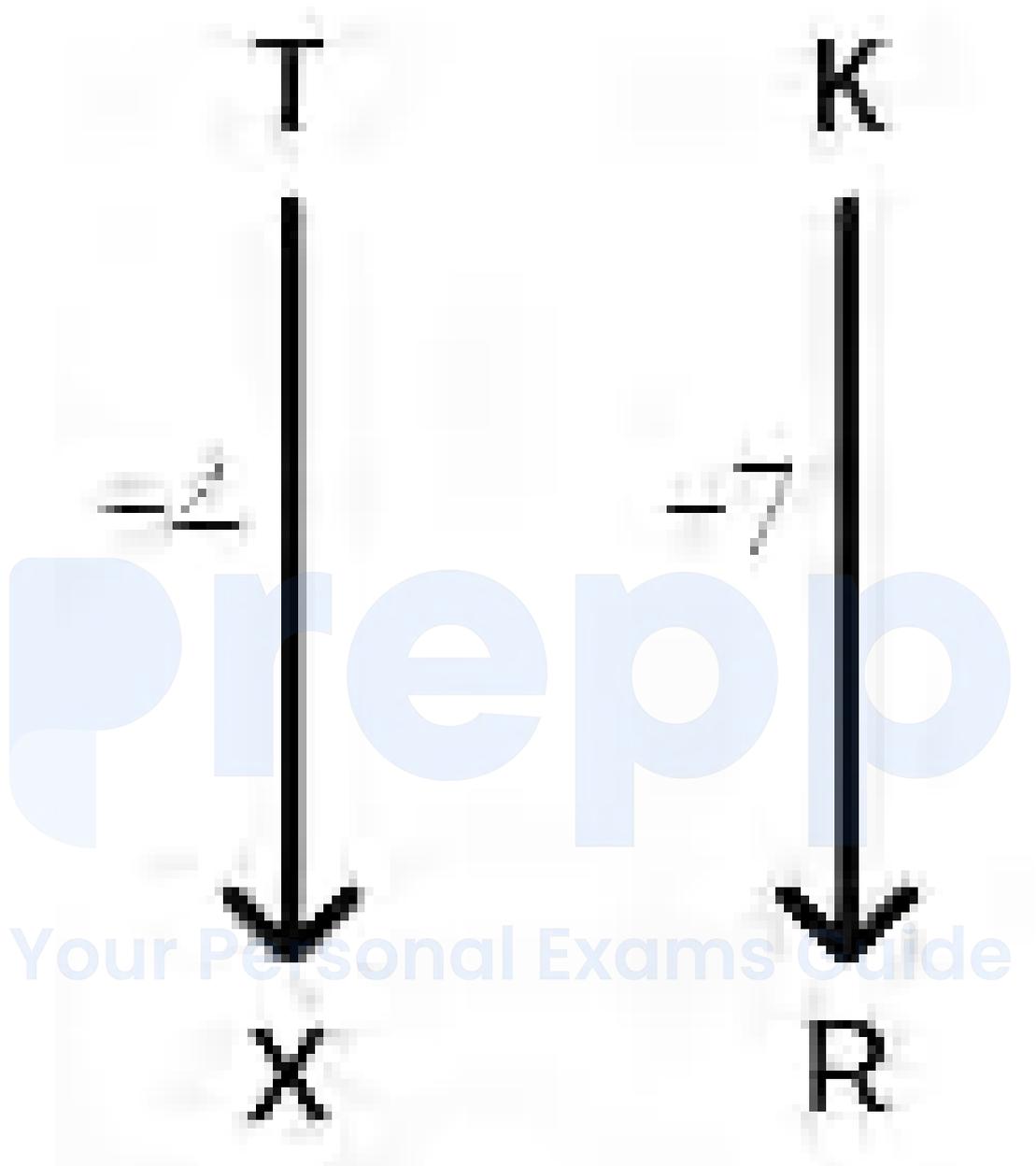
We get ' **XR** '.

Hence, Option 1) is the correct answer.

---

5. **Answer: c**

Explanation:

Let us decode the code language first:

- Star ⇒ Moon
- Moon ⇒ Planet
- Planet ⇒ Sun
- Sun ⇒ Solar system
- Solar system ⇒ Galaxy

The Earth's only natural satellite is Moon and the Moon is called **Planet** in coded language.

Hence, **option 3)** is the correct answer.

---

6. **Answer: c**

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is:

- In SON : TPO
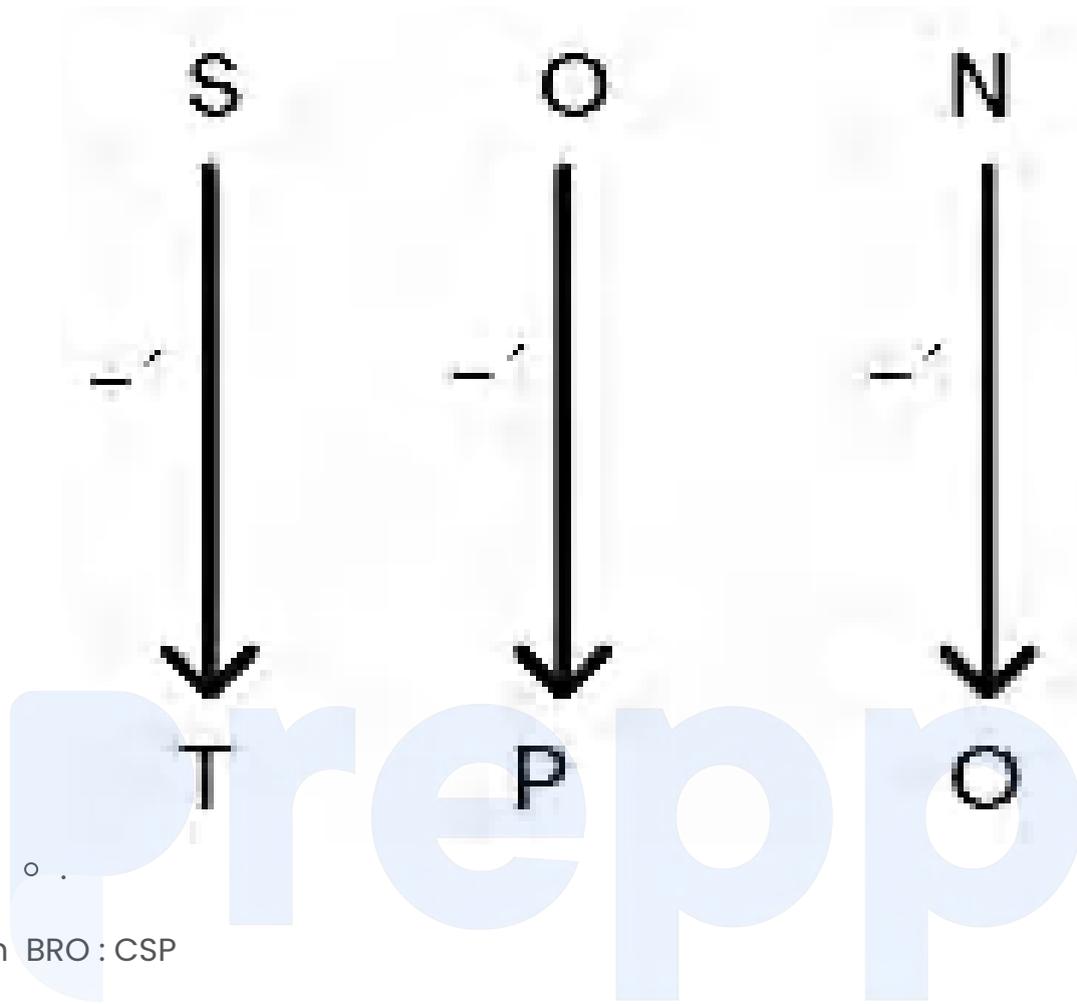
S   O   N

$\downarrow$ $\downarrow$ $\downarrow$

T   P   O

 ○ .

- In BRO : CSP

$$B \downarrow C \qquad R \downarrow S \qquad O \downarrow P$$

- Similarly, In **BIL** : ?

o

B   I   L

C   J   M
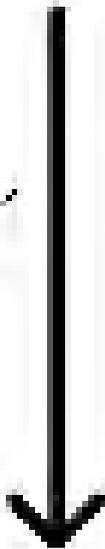
We get ' CJM '.

Hence, Option 3) is the correct answer.

7. Answer: b

Explanation:

According to the given information in the figure, we have,
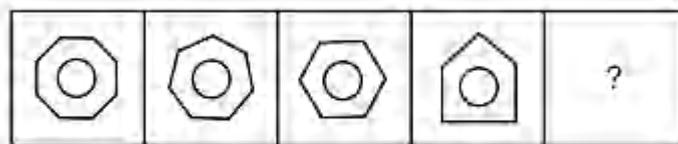
In this figure, the first box has 8 sides (octagon) in the outer periphery of the box, and the second box has 7 sides (heptagon) in the outer periphery. Similarly in the third

and fourth boxes, one side decreases due to which it becomes a hexagon and pentagon respectively.

So, a pattern is developed in this figure from which can assume that the next box will have 4 sides (Square) in the outer periphery and a circle in the center (as it is common in every box).

Hence, option 2) is correct.

---

8. Answer: a

Explanation:

The logic followed here is:

(No. of letters in a word) ^{2} = Coded word

- GEAR → 16
  - No. of letters = 4
  - Coded word = 4 2 = 16.
- ANT → 9
  - No. of letters = 3
  - Coded word = 3 2 = 9.
- HEART → 25
  - No. of letters = 5
  - Coded word = 5 2 = 25.
- Similarly, **TEAR** → ?
  - No. of letters = 4
  - Coded word = 4 2 = **16** .

Hence, **option 1)** is the correct answer.

---

9. Answer: d

Explanation:

BODMAS RULE :

B	Brackets in order (), {}, []	ब्रैकट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Option 1) : − and ×

Given equation: 72 − 12 + 8 × 6 ÷ 22 = 32

By interchanging − and × in the given equation.

Interchanged equation is : 72 × 12 + 8 − **6 ÷ 22**= 32

⇒**72 × 12**+ 8 − 0.272 = 32

⇒**864 + 8** − 0.272 = 32

⇒ 872 − 0.272 = 32

⇒ 871.728 ≠ 32

⇒ LHS ≠ RHS

Option 2) : − and +

Given equation: 72 − 12 + 8 × 6 ÷ 22 = 32

By interchanging − and + in the given equation.

Interchanged equation is :72 + 12 − 8 × 6 ÷ 22 = 32

⇒ 72 + 12 − **8 × 0.272** = 32

⇒ 72 + 12 − 2.176 = 32

⇒ 84 - 2.176 = 32

⇒ 81.824 ≠ 32

⇒ LHS ≠ RHS

Option 3) : × and +

Given equation: 72 - 12 + 8 × 6 ÷ 22 = 32

By interchanging × and + in the given equation.

Interchanged equation is :72 - 12 × 8 + <u>6 ÷ 22</u> = 32

⇒ 72 - <u>**12 × 8**</u>+ 0.272= 32

⇒ 72 - 96 + 0.272 = 32

⇒ -23.728 ≠ 32

⇒ LHS ≠ RHS

Option 4) : - and ÷

Given equation: 72 - 12 + 8 × 6 ÷ 22 = 32

By interchanging - and ÷ in the given equation.

Interchanged equation is :<u>72 ÷ 12</u>+ 8 × 6 - 22 = 32

⇒ 6 + <u>**8 × 6**</u>- 22 = 32

⇒<u>6 + 48</u> - 22 = 32

⇒ 54 - 22 = 32

⇒ **32 = 32**

⇒ **LHS = RHS**

Thus, the correct answer is "- and ÷".

10. Answer: b

Explanation:

<u>BODMAS RULE :</u>

B	Brackets in order (), (), []	ब्रैकट (), (), [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Given equation: 5 – 3 ÷ 8 × 12 + 4

If '+' and '−' are interchanged and '×' and '÷' are interchanged the,

Interchanged equation : 5 + 3 × 8 ÷ 12 – 4

Solving the interchanged equation,

⇒ 5 + 3 ×<u>8 ÷ 12</u>– 4

⇒ 5 +<u>3 × 0.67</u>– 4

⇒<u>5 + 2</u>– 4

⇒ 7 – 4

⇒ **3**

Hence, **option 2)** is the correct answer.

---

11. Answer: c

Explanation:

When the folder paper is opened, the cuts will appear as follows:

→

→
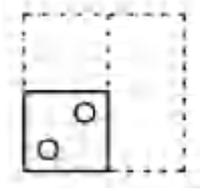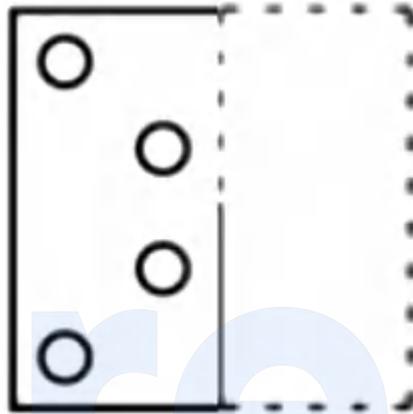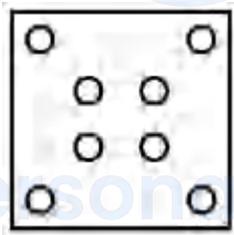
Hence, option 3) is the correct answer.

---

12. **Answer: d**

Explanation:

Representing the given arrangement:

1) Six friends are sitting around a circular table facing the centre
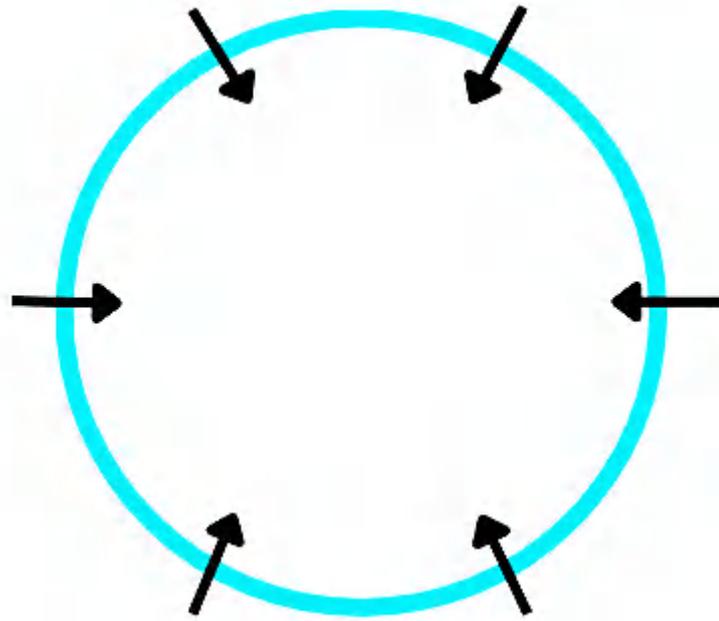
2) Aman is sitting second right to Sneha
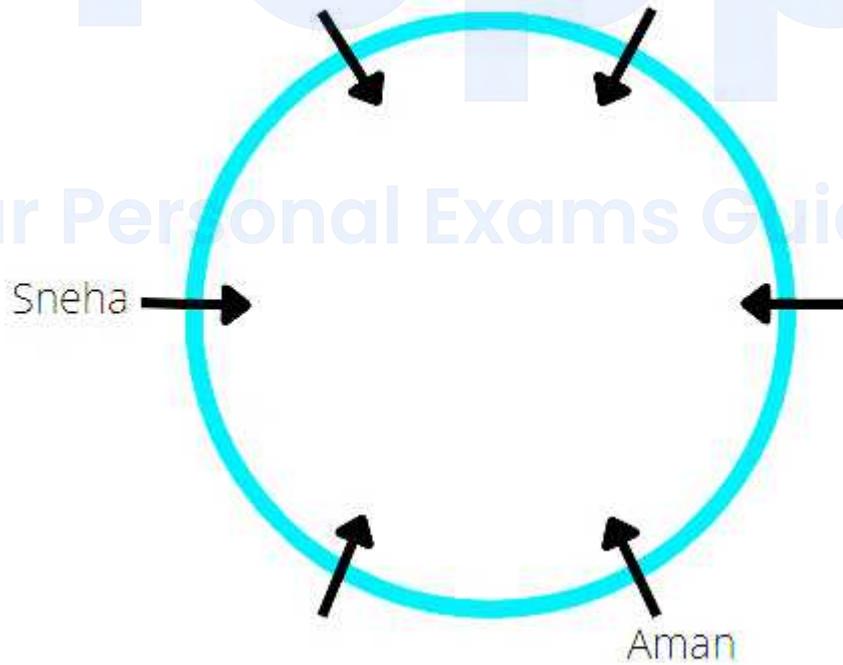
3) Tushar is immediate left to Sneha
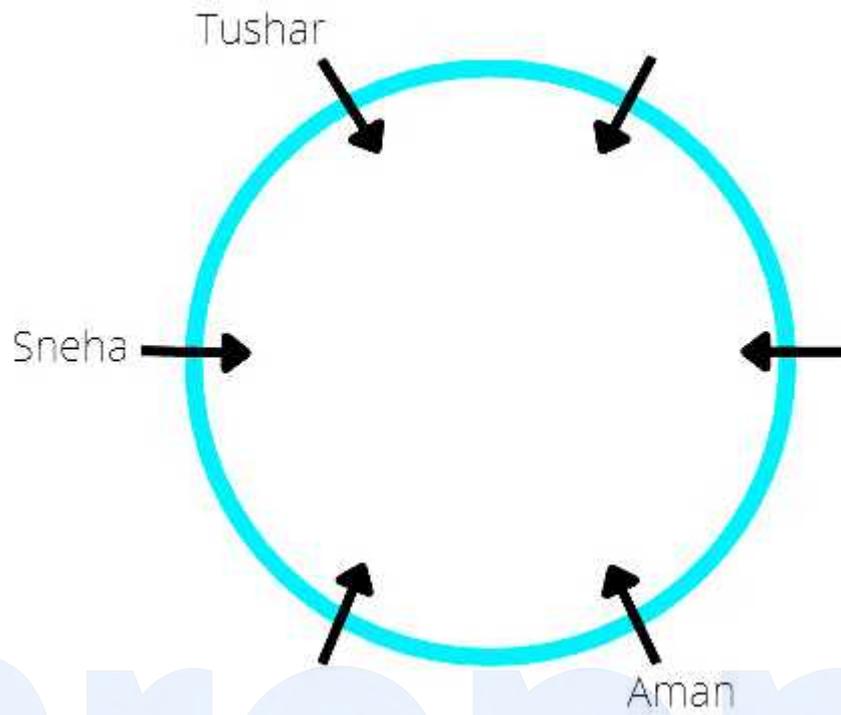
4) Ritika is not the immediate neighbour of either Sneha or Tushar
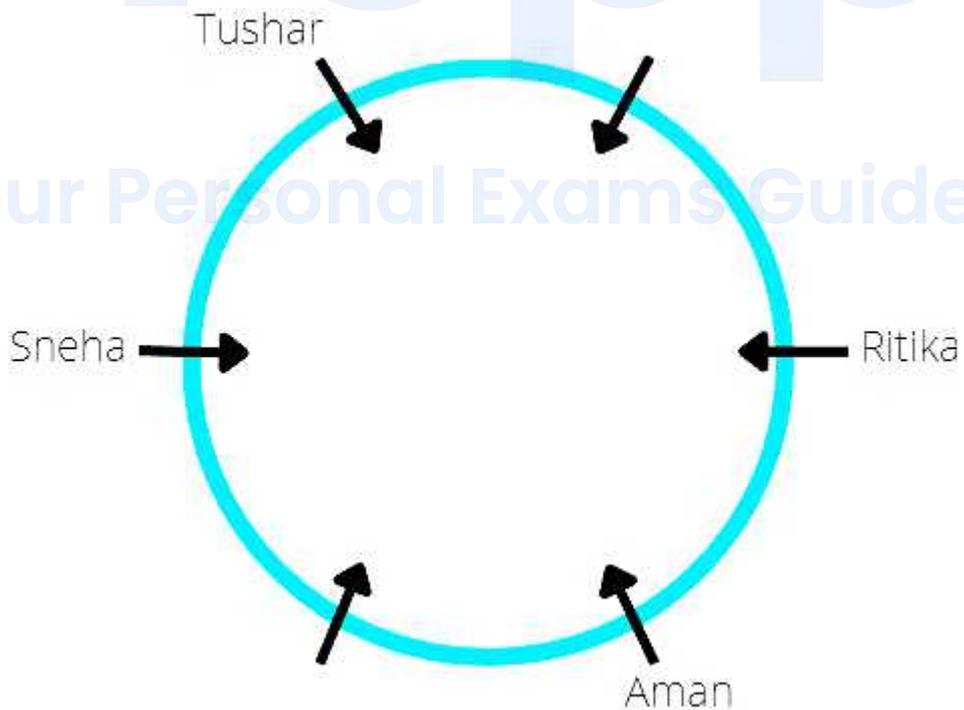
5) Ritika is sitting second right to Prerna
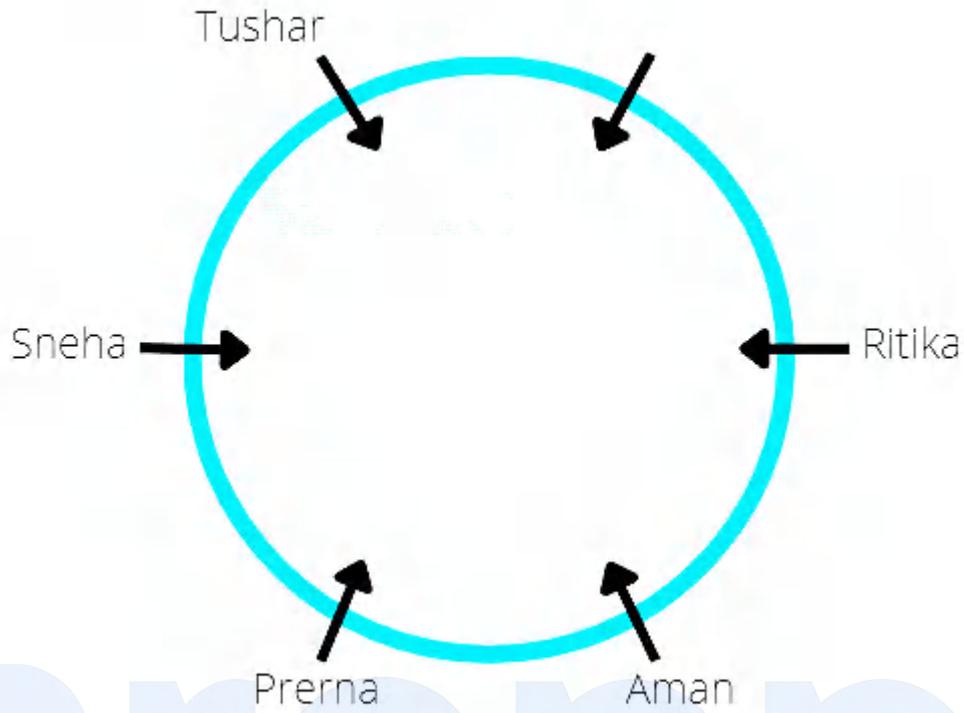
6) Sharique is sitting in between Ritika and Tushar
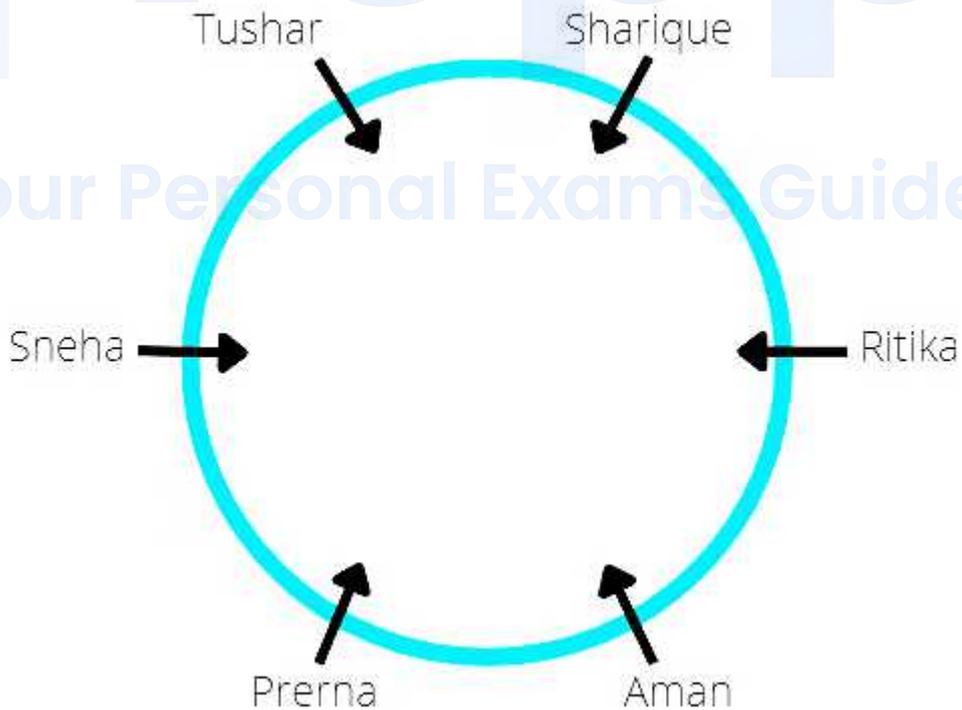
So, as we can see in the above figure, **Sneha**is the immediate neighbour of both Tushar and Prerna.

Hence, **option 4)** is the correct answer.

---

13. **Answer: d**

Explanation:

The logic followed here is:

No. of cubes are increasing by +1 in the given series.
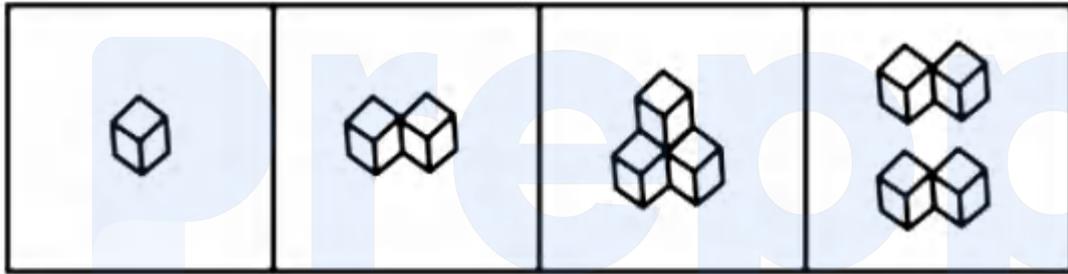
So, the figure that will come next in the following figure series is:
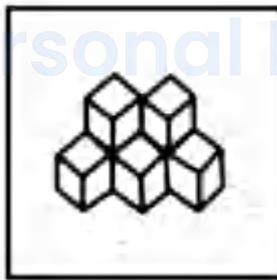
Hence, **option 4)** is the correct answer.

---

14. **Answer: c**

Explanation:

The logic followed here is:

Second number = (First number − 3) × 2

⇒ 39 : 72 → (39 − 3) × 2 = 36 × 2 = 72

⇒ 217 : 428 → (217 − 3) × 2 = 214 × 2 = 428

Similarly,

⇒ **135 : ?** → (135 − 3) × 2 = 132 × 2 = **264**

Hence, **option 3)** is the correct answer.

---

15. **Answer: c**

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is:

Opposite positional letters are written in place of the letters.

- In HALT → SZOG

(Opposite Positional Alphabet)

H → S
A → Z
L → O
T → G

○ .
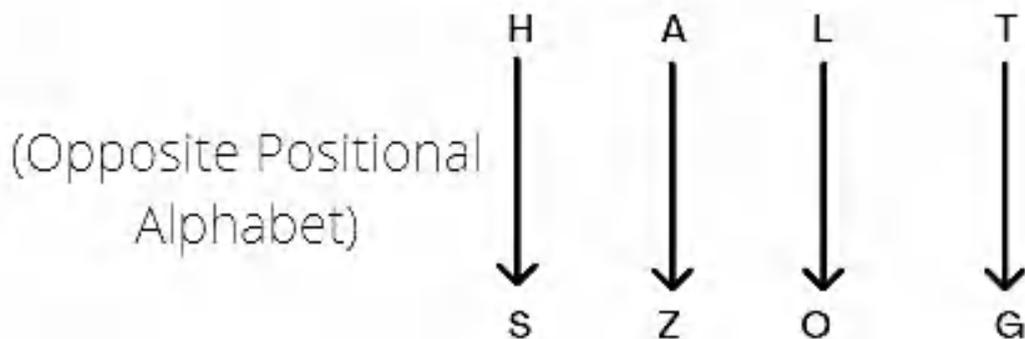
- In CROM → XILN

○ .
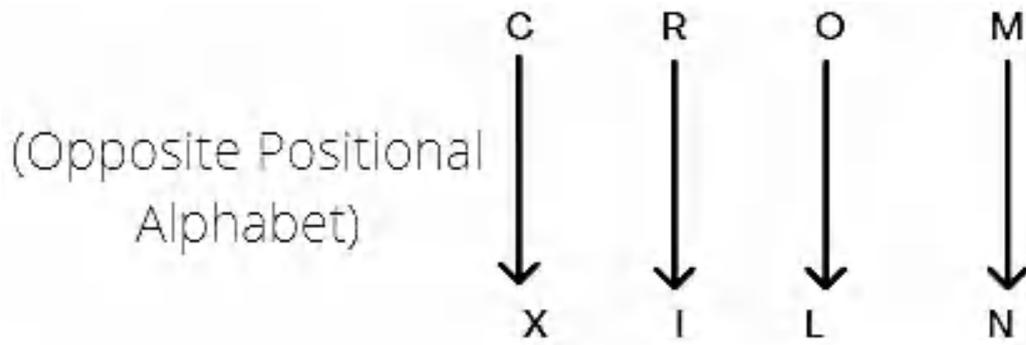
- Similarly, In PIGY → ?

○
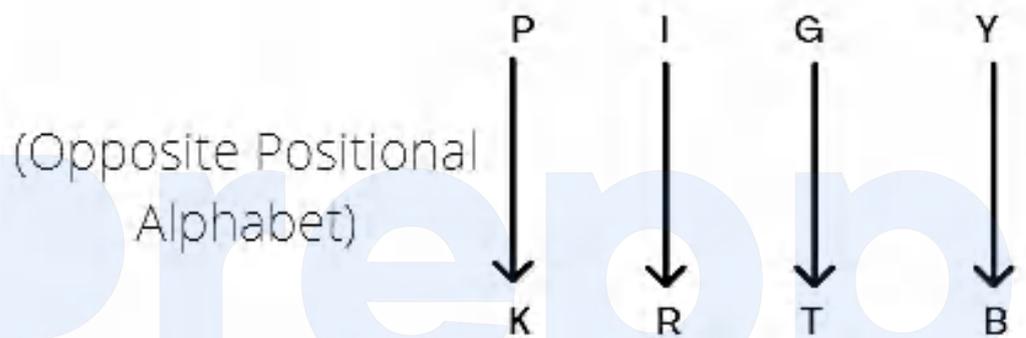
We get ' KRTB '.

Hence, Option 3) is the correct answer.

16. **Answer: c**

Explanation:

Statements:

I. No B is L.

II. No C is B.

Venn diagram:

Conclusions:

I. Some L are C . → Does not follow (because no B is L and no C is B, so we can not say that some L are definitely C.)

II. Some B are C. → Follows (because no C is B according to the statement II .)

Hence, " **Neither conclusion I nor II follows** ".

---

17. Answer: b

Explanation:

The logic followed here is:
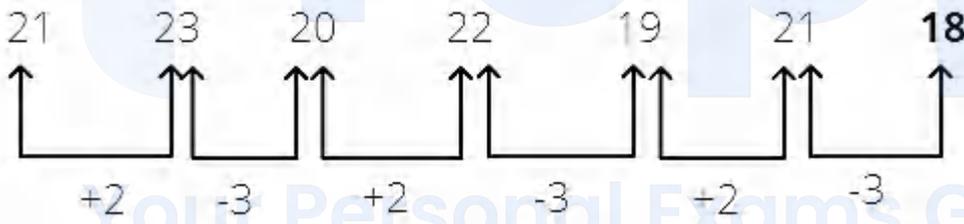
Hence, **option 2)** is the correct answer.

---

18. Answer: b

Explanation:

The logic followed here is:

No. of vowels(A, E, I, O, U) in the letter = Coded word

- RARE → 2

- It has two vowels in it, i.e. A, E.
- So, the coded word is 2.
- CAT → 1
  - It has one vowel in it, i.e. A.
  - So, the coded word is 1.
- Similarly, **RICKSHAW** →
  - It has two vowels in it, i.e. I, A.
  - So, the coded word is **2.**

Hence, **option 2)** is the correct answer.

---

19. **Answer: a**

Explanation:

Given figure:

⭐ <u>**Important Points**</u>

- The image must not be rotated.

1)
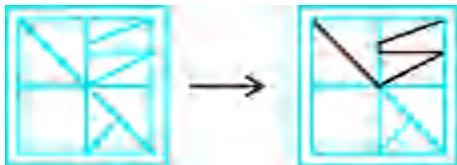
→ EMBEDDED

2)
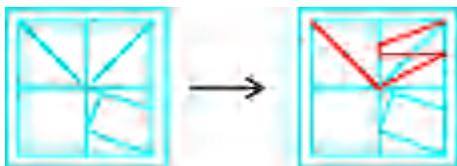
→ NOT EMBEDDED

3)
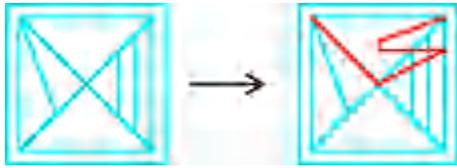
→ NOT EMBEDDED

4)
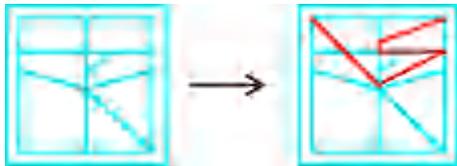
→ NOT EMBEDDED

Hence, option (1) is the correct answer.

---

20. **Answer: a**

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is:

Letters are decreasing by –2.

```
     P        C
     |        |
    -2        -2
     |        |
     ↓        ↓
     N        A
     |        |
    -2        -2
     |        |
     ↓        ↓
     L        Y
     |        |
    -2        -2
     |        |
     ↓        ↓
     J        W
     |        |
    -2        -2
     |        |
     ↓        ↓
     ?        ?
```
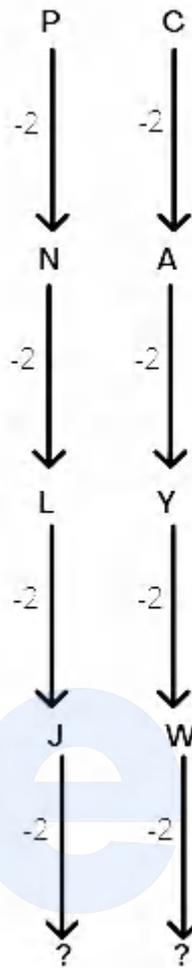
On continuing the same pattern, we get,

```
        P              C
        |              |
     -2 |           -2 |
        ↓              ↓
        N              A
        |              |
     -2 |           -2 |
        ↓              ↓
        L              Y
        |              |
     -2 |           -2 |
        ↓              ↓
        J              W
        |              |
     -2 |           -2 |
        ↓              ↓
        H              U
```
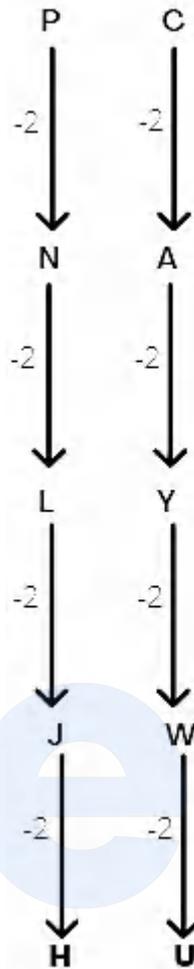
Hence, ' HU ' is the correct answer.

21. **Answer: a**

Explanation:

The pattern followed here is:

- In VIOLET : WUJHPNMKFDUS

V: +1 W, -1 U
I: +1 J, -1 H
O: +1 P, -1 N
L: +1 M, -1 K
E: +1 F, -1 D
T: +1 U, -1 S

- .

- In RING : SQJHOMHF
  -
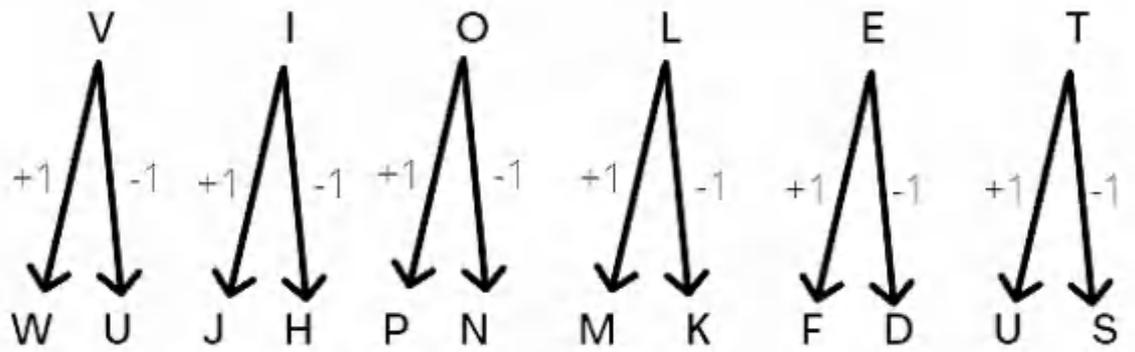
R: +1 S, -1 Q
I: +1 J, -1 H
N: +1 O, -1 M
G: -1 H, -1 F

- Similarly, In **NEED** : ?
  -

N: +1 O, -1 M
E: +1 F, -1 D
E: +1 F, -1 D
D: +1 E, -1 C
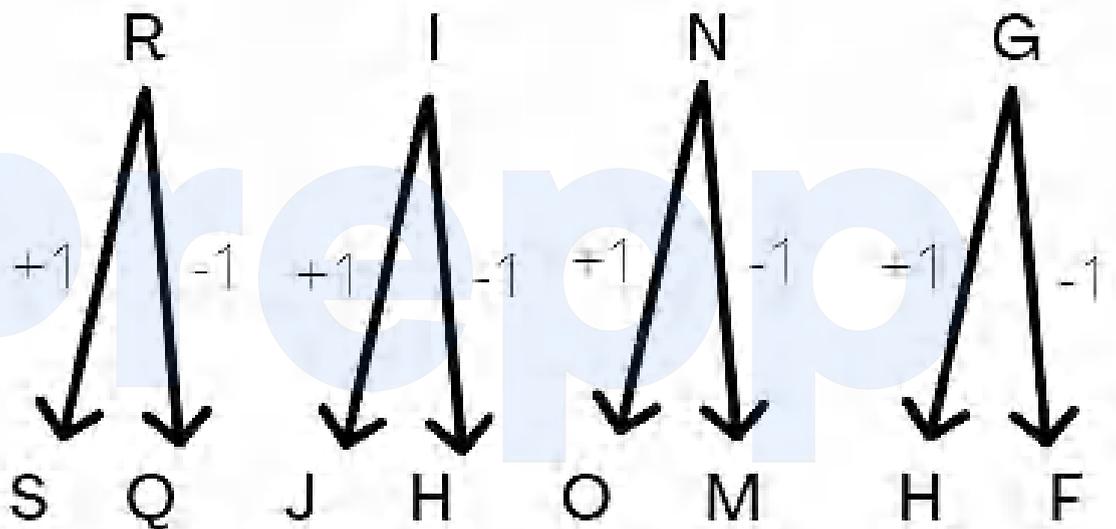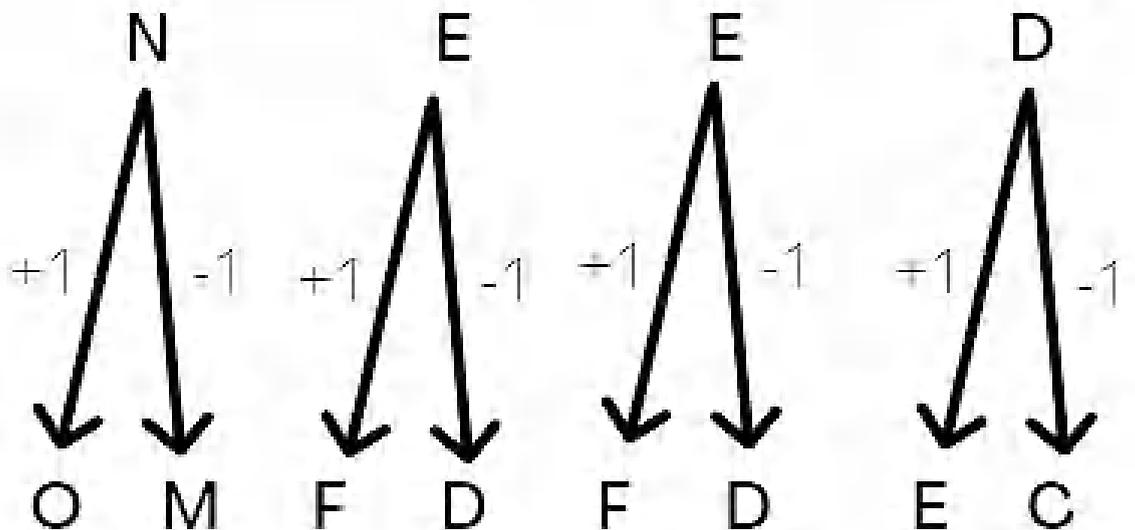
We get '**OMFDFDEC**'.

Hence, Option 1) is the correct answer.

---

22. **Answer: d**

Explanation:

The figure from the options that can replace the question mark (?) and complete the pattern is given below:

+

→
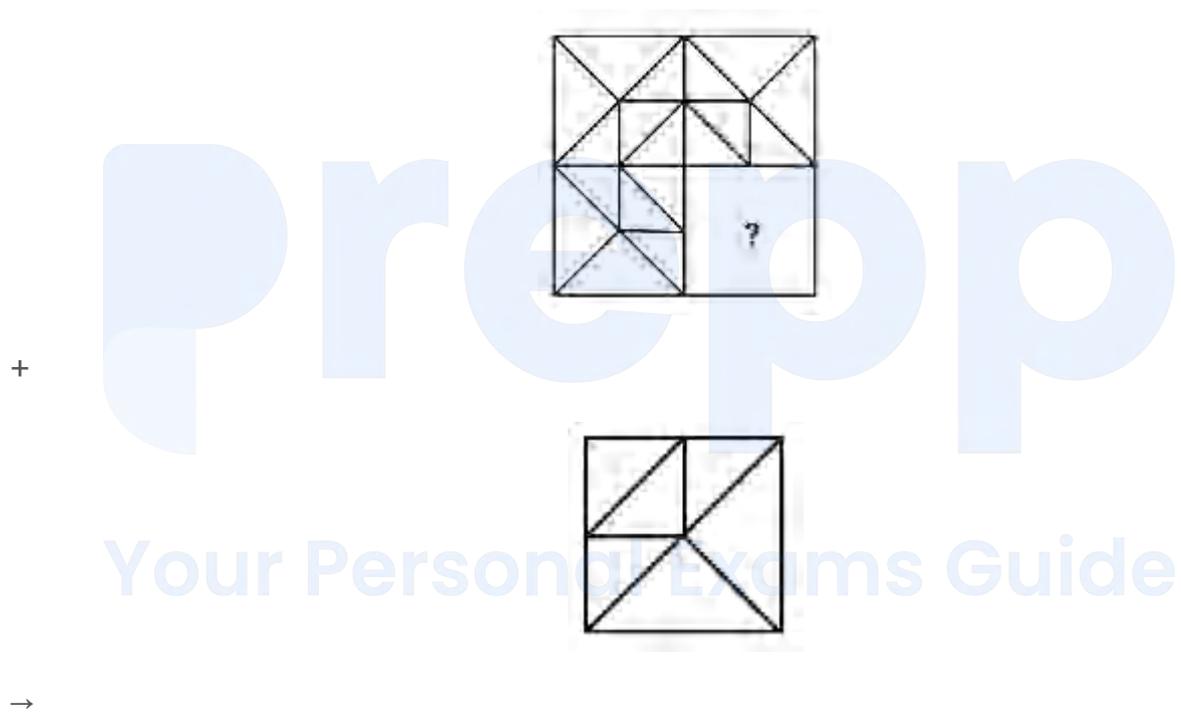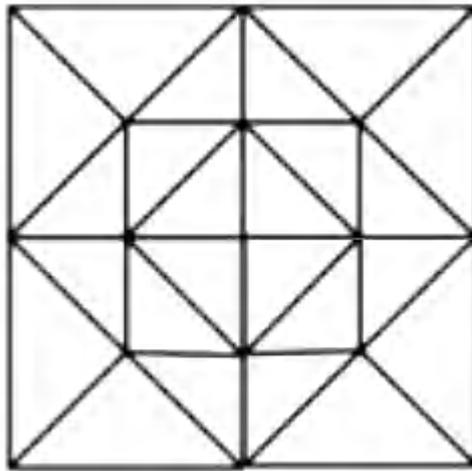
Hence, option 4) is the correct answer.

---

23. **Answer: b**

Explanation:

The figure from the options that can replace the question mark (?) and complete the pattern is given below:

+

→
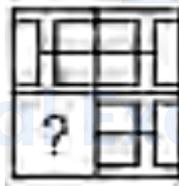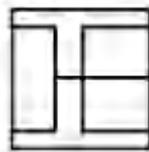
Hence, **option 2)** is the correct answer.

---

24. **Answer: c**

Explanation:

The logic followed here is:

Second number = First number + 69

⇒ 3678 : 3747 → 3678 + 69 = 3747

⇒ 1052 : 1121 → 1052 + 69 = 1121

Similarly,

⇒ **96 : ?** → 96 + 69 = **165**

Hence, option 3) is the correct answer.

---

25. **Answer: d**

Explanation:

Statements:

Some fans are bulbs.

Some bulbs are tube lights.

Some tube lights are coolers.

Venn diagram:
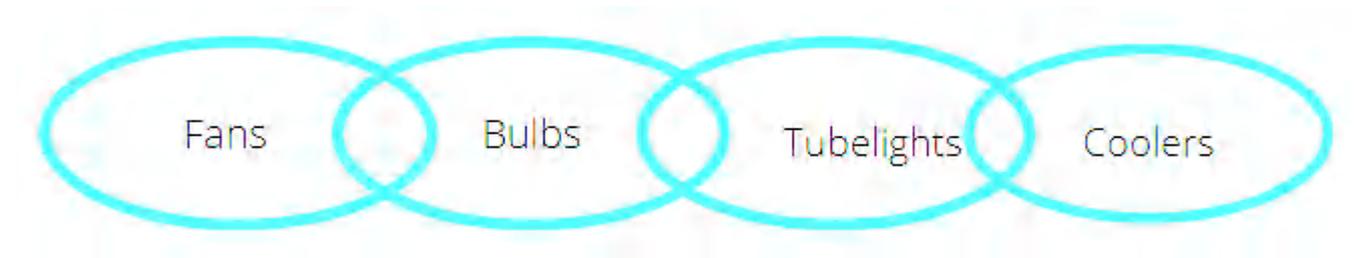
Conclusions:

I. Some fans are coolers. → Does not folllow (because some fans are only bulbs and it is not certain that some fans can be coolers.)

II. Some tube lights are fans. → Does not follow (because some tube lights are coolers and it is not certain that some tube lights can be fans.)

Hence, "**Neither conclusion I nor II follows** ".

---

26. **Answer: a**

Explanation:

Given:

Distance = 120 km or 120000 m

Time = 4 hours = 4 × 3600 = 14400 s

Formula used:

Speed = Distance/Time

Calculations:

According to the question,

Speed = 120000/14400

⇒ S = 1200/144 = 8.3 m/s

∴ I ts average speed is 8.3 m/sec.

---

27. Answer: c

Explanation:

Given:

The mean of five numbers 1, 2, 3, 5, and x is 2.4

Concept used:

Mean = Sum of all terms/Total terms

Calculations:

Here, total terms = 5

According to the question,

(1 + 2 + 3 + 5 + x)/5 = 2.4

⇒ 11 + x = 2.4 × 5

⇒ 11 + x = 12

⇒ x = 12 – 11 = 1

∴ T he value of x is 1.

---

28. Answer: d

Explanation:

Given:

The ratio of the salaries of Abhi and Monu is 6 : 11.

Their salaries are increased by 10 per cent and 12 per cent

Calculations:

According to the question,

Let the salary of Abhi be 6x and that of Monu be 11x then

$[6x(1 + 10\%)] \div [11x(1 + 12\%)]$

$\Rightarrow [6x(1 + 0.10)] \div [11x(1 + 0.12)]$

$\Rightarrow [6x(1.10\%)] \div [11x(1.12)]$

$\Rightarrow [6.6x] \div [12.32x]$

$\Rightarrow 1.5/2.8 = 15/28$ or $15 : 28$

∴ The new ratio of their salaries is 15 : 28.

29. **Answer: c**

Explanation:

Formula used:

Mean Proportional $= \sqrt{ab}$

Calculation:

According to the question:

$K = \sqrt{(81 \times 256)}$

⇒ K = 9 × 16 = 144

∴ The value of K is 144.

---

30. **Answer: b**

Explanation:

Concept:

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Calculation:

$\frac{5}{11} \, of \, \frac{3}{7} + \frac{7}{11} \times \frac{55}{21} - \frac{8}{22} \div \frac{16}{33}$

⇒ (5/11)(3/7) + (7/11)(55/21) – (8/22)/(16/33)

⇒ (15/77) + (5/3) – (3/4)

⇒ [(45 + 385)/231] – (3/4)

⇒ (430/231) – (3/4)

⇒ (1720 − 693)/924 = 1027/924

∴ The value of the given equation is $\frac{1027}{924}$.

---

31. Answer: a

Explanation:

Given:

The radius of a sphere is 14 cm

Formula used:

The surface area of the sphere = $4 \pi r^2$

Calculations:

SA = $4 \times \pi \times (14)^2$

⇒ SA = $4 \times 22/7 \times (196)$

⇒ SA = $4 \times 22 \times 28 = 2464$ cm^2

∴ The surface area of this sphere is 2464 cm^2 .

---

32. Answer: a

Explanation:

Given:

Edge of cube = 1 unit

Concept used:

Volume of the cube = a^3

Calculation:

According to the question,

If edge of the cube became tripled ie. $a = 3 \times 1 = 3$

Volume of the cube with edge tripled = $(3)^3 = 27$ cu units.

Now the increase in volume = $27 - 1 = 26$ cu units.

∴ T he increase in the volume of a cube is of 26 cu units.

---

33. **Answer: c**

Explanation:

Given:

A shopkeeper sold 24 shirts, each at a profit of 20%

16 shirts, each at a profit of 10%.

Concept used:

$SP = CP(1 + P\%)$

Calculation:

Let the cost price of each shirt be Rs 100

Selling price of each shirt at 20% profit = $100(120/100)$ = Rs. 120

Sale amount of 24 shirts = 120×24 = Rs. 2880

Selling price of each shirt at 10% profit = $100(110/100)$ = Rs. 110

Sale amount of 16 shirt s = 110×16 = Rs. 1760

Total sale amount of 40 shirt s = 2880 + 1760 = Rs. 4640

Selling price of shirts at 15% profit = 100(115/100) = Rs. 115

Sale amount of 40 shirt s =115 × 40 = Rs 4600

Difference in sale amount/profit = 4640 − 4600 = Rs 40

When difference in sale amount/profit is Rs. 40, cost price = Rs. 100

When difference in sale amount/profit is Rs. 36, cost price = (100/40)36 = Rs. 90

∴ T he cost price of each shirt is Rs. 90.

---

34. Answer: d

Explanation:

Given:

The bar-graph represents the voting for class monitor in class 9.
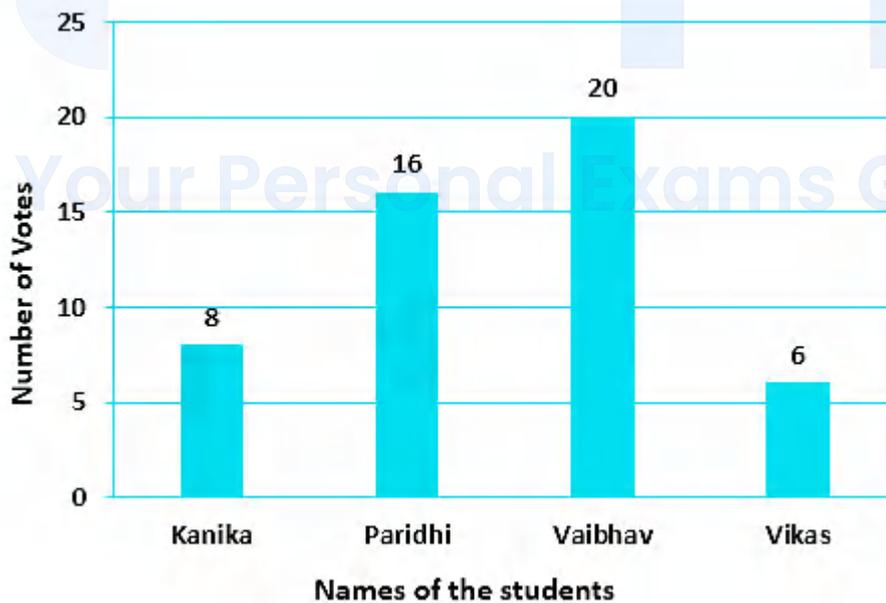
Calculations:

According to the question,

Difference of votes of paridhi and vaibhav = 20 - 16 = 4

Now Percentage,

⇒ (4/16) × 100

⇒ 1/4 × 100 = 25%

∴ **Vaibhav got 25% votes more than Paridhi.**

---

35. Answer: a

Explanation:

Given:

12.50 ÷ 0.005 + 25 ÷ 0.5 + 5 = x

Calculation:

⇒ x = (12.50 ÷ 0.005) + (25 ÷ 0.5) + 5

⇒ x = 2500 + 50 + 5

⇒ x = 2550 + 5 = 2555

∴ **The value of x in given equation is 2555.**

---

36. Answer: c

Explanation:

Given:

The table shows the number of copies of a book sold by seven different shops on a particular day.

Shops	Copies sold of the book
S1	42
S2	38
S3	61
S4	39
S5	51
S6	59
S7	60

Calculation:

According to the question,

Total cost of all the copies of all the shops

⇒ (42 + 38 + 61 + 39 + 51 + 59 + 60) × 70

⇒ (350) × 70 = Rs. 24500

∴ The total cost of all the copies of the book that got sold on that day from all these seven shops taken together is Rs. 24500.

---

37. **Answer: d**

Explanation:

Calculations:

According to the question,3

2 : x :: 4 : 28

⇒ 2/x = 4/28

⇒ x = 2 × 7 = 14

∴ The value of x is 14.

---

38. Answer: a

Explanation:

Given:

A girl goes from M to N with the speed = 25 km/hr

The girl returns to M with the speed = 37.5 km/hr

Formula Used:

Average Speed = (2 × S1 × S2)/(S1 + S2)

Where, S1 is the speed from M to N and S2 is the speed from N to M

Calculation:

Average speed = (2 × S1 × S2)/(S1 + S2)

⇒ (2 × 25 × 37.5)/(25 + 37.5)

⇒ 1875/62.5 = 30 km/h

∴ T he girl's average speed is 30 km/h.

---

39. Answer: d

Explanation:

Given:

X sold a toy to Y at a profit of 50%

Y sold it Z at a loss of 50%.

X purchased this toy for Rs. 12.000

Concept used:

SP = CP (1 + P%)

SP = CP(1 – L%)

Calculations:

According to the question,

When X sold to Y

⇒ SP = 12000(1 + 50%)

⇒ SP = 12000(1.5) = Rs. 18000

Now SP of X is CP of Y

When Y sold to Z

⇒ SP = 18000(1 – 50%)

⇒ SP = 18000(0.50) = Rs. 9000

∴ **Z purchase this toy from Y at Rs. 9000.**

---

40. **Answer: a**

Explanation:

Calculations:
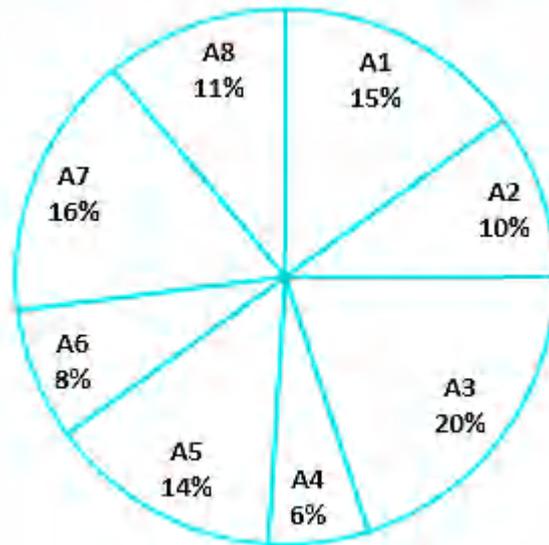
According to the question,

The sum of central angles made by the sectors A1 and A4 = 15% + 6% = 21%

Now the combined central angle

21% of 360°

⇒ 0.21 × 360° = 75.6°

∴ The sum of the central angles made by the sectors A1 and A4 is 75.6°.

41. **Answer: d**

Explanation:

Given:

The average marks of a student in six subjects was initially 110.

In one subject the marks obtained was reduced from 148 to 112

Concept used:

Average value = Sum of all the value/Total no. of values

Calculations:

Let the sum of 5 subjects is 5x.

According to the question,

Original Average value,

$\Rightarrow 110 = (5x + 148)/6$

$\Rightarrow 660 = 5x + 148$

$\Rightarrow 5x = 512$

When the marks of one of the subject are changed then the average value

$\Rightarrow A = (5x + 112)/6$

$\Rightarrow A = (512 + 112)/6$

$\Rightarrow A = 624/6 = 104$

$\therefore$ **The new average mark is 104.**

---

42. **Answer: b**

Explanation:

Given:

12 men can weave 20 shawls in 9 days

Calculations:

Number of shawls woven by 12 men in 9 days = 20

Number of shawls woven by 3 people in 1 day = 20/9

Number of shawls woven by 1 person in 1 day = (20/9)/12 = 5/27

Number of men (x) needed to weave 25 shawls in 27 day

⇒ 5/27 × x × 27 = 25

⇒ x × 5 = 25

⇒ x = 25/5 = 5

∴ 5 men will be required to weave 25 shawls in 27 days.

---

43. **Answer: d**

Explanation:

Given:

$M_1 = 15$, $D_1 = 15$, $H_1 = 8$ and

$M_2 = N$, $D_2 = 20$, $H_2 = 10$

Concept used:

$(M_1 D_1 H_1)/W_1 = (M_2 D_2 H_2)/W_2$

M_1 = men or women in first group

D_1 = days to complete the work by first group

H_1 = working hours in a day by first group

W_1 = work done by first group

M_2 = men or women in second group

D_2 = days to complete the work by second group

H_2 = working hours in a day by second group.

W_2 = work done by second group

Calculations:

According to the question,

$2(W_1) = W_2$

Then,

$(15 \times 15 \times 8)/(W_1) = (N \times 20 \times 10)/2(W_1)$

$\Rightarrow 2(15 \times 15 \times 8) = (N \times 20 \times 10)$

$\Rightarrow 2(1800) = N \times 200$

$\Rightarrow 3600 = N \times 200$

$\Rightarrow N = 3600/200 = 18$

$\therefore$ The value of N is 18.

---

44. **Answer: d**

Explanation:

Given:

Marked Price = Rs. 1000

Two successive discounts of 10% and 15%

Concept used:

Discount% = (A + B) – (AB/100)

SP = MP (1 – D%)

Calculations:

According to the question,

⇒ D% = (10 + 15) – (10x15)/100

⇒ D% = 25 – 1.5 = 23.5%

Now SP of item

⇒ SP = 1000(1 – 23.5%)

⇒ SP = 1000(1 – 0.235)

⇒ SP = 1000(0.765) = Rs. 765

∴ The price at which the item is sold is Rs. 765.

---

45. Answer: d

Explanation:

Given:

The winning candidate got 55% of the valid votes.

5% of the total votes were invalid.

The total number of votes polled were 10000

Calculations:

According to the question,

Total no. of valid votes

⇒ 95% of 10000

⇒ 0.95 × 10000 = 9500

Now total votes of winning candidate,

⇒ 55% of 9500

⇒ 0.55 × 9500 = 5225

Now Total votes of Loosing candidate = 9500 – 5225 = 4275

∴ 4275 votes were obtained by the losing candidate.

---

46. **Answer: a**

Explanation:

Calculations:

Step 1 - Take LCM (7, 11, 23) = 1771

Step 2 - Divide 1800 by 1771.

⇒ 1800 ÷ 1771 = 1 (quotient) and 29 (remainder)

Step 3 - To get 5 as remainder you must subtract 24.

⇒ 29 − 24 = 5

Result : 1800 − 24 = 1776

⇒ 1776 ÷ 7 = 253 (quotient) + 5 (remainder)

⇒ 1776 ÷ 11 = 161 (quotient) + 5 (remainder)

⇒ 1776 ÷ 23 = 77 (quotient) + 5 (remainder)

∴ The smallest natural number 'x' must be 24.

---

47. **Answer: a**

Explanation:

Given:

A train can completely cross a 1000-metre long bridge in 15 seconds.

It can completely cross another 1300-metre long bridge in 19 seconds.

Concept used:

Speed = Distance/Time

Calculation:

Let the length of the train be 'x'

According to the question,

$(1000 + x)/15 = (1300 + x)/19$

$\Rightarrow (1000 + x) \times 19 = (1300 + x) \times 15$

$\Rightarrow 19000 + 19x = 19500 + 15x$

$\Rightarrow 4x = 500$

$\Rightarrow x = 500/4 = 125$ m

$\therefore$ The length of the train is 125 m.

48. **Answer: c**

Explanation:

Concept used:

Successive discounts = $(A + B) - (AB/100)$

Calculations:

According to the question,

$\Rightarrow [25 + (-25)] - [25(-25)]/100$

⇒ [0] – (625)/100

⇒ – (625/100) = – 6.25%

∴ The net change in price will be of 6.25% decrease.

---

49. **Answer: d**

Explanation:

Given:

The length of a rope, by which a calf is tied, is decreased from 9 m to 5 m

Concept used:

Area of the circle = πr^2

Calculations:

According to the question,

⇒ Old Area = $\pi (9)^2$ = 81π

⇒ New Area = $\pi (5)^2$ = 25π

Net change in Area

⇒ 81π – 25π

⇒ 56π = (56 × 22)/7

⇒ 1232/7 = 176 m^2

∴ The decrease in the area that can be grazed by the calf is 176 m 2 .

---

50. **Answer: a**

Explanation:

Given:

Rate = 6.25% per annum

Time = n years

Amount = 11/8 × Principle

Concept used:

SI = A – P

SI = (P × R × T)/100

Calculations:

Let the Principle sum be 'x'

S.I. = A – P

$\Rightarrow$ SI = 11/8P – P

$\Rightarrow$ SI = (11P – 8P)/8 = 3P/8

Now SI

3x/8 = (x × 6.25 × n)/100

$\Rightarrow$ 300/8 = 6.25n

$\Rightarrow$ n = 300/(8 × 6.25)

$\Rightarrow$ n = 300/50 = 6 years

$\therefore$ The value of 'n' is 6 years.

---

51. **Answer: d**

Explanation:

The correct answer is ' **cautiously**'.

⭐ <u>Key Points</u>

- In the given options, **Cautiously** is most appropriate option to fill in the blank.
- **Cautiously** here means in a **careful** and **well-considered way** to avoids risk.
  - **Example** - Along the dark and rocky road, he proceeded **cautiously** and slowly.
- Thus, *Option 4* is the correct answer.

The correct sentence is: I *cautiously* walked down the stairs, careful to be as quiet as possible.

⭐ <u>Additional Information</u>

Let us understand the meaning and usage of the other options.

- **Furiously -** It means with **extreme anger** , **violent passion,** or **rage** .
  - **Example-** My Boss glared at me *furiously* when I told him that my project is not done yet.
- **Neatly -** It means in a **tidy** or **orderly way** .
  - **Example-** My mother keeps the *neatly* folded clothes in the drawer.
- **Orderly -** It means in an **arranged** or **organized way** .
  - **Example** - Finding a book becomes very easy in an *orderly* library.

---

52. Answer: a

Explanation:

The correct answer is **option (1)** .

⭐ <u>Key Points</u>

- The error lies in part - '*to meets you*' of the sentence.

- The verb '*to look forward to*' is a **transitive verb** that requires a direct object.
- Thus, the direct object should be the **gerund** (noun) form of the verb '*to meet*', i.e.*meeting.*

The correct sentence:*I am looking forward **to meeting you** at the convocation party.*

⭐ Additional Information

- When the subject of the simple present is in **third person singular form** (He/She/It), We use *'s*to the verb when our verb ends with a vowel or the letter *'y'*, we simply add the suffix -s to it.
- **Example-** She*cooks* very well that the aroma of her dishes spread all around.
- We use *'es*to the verb when our verb ends with a consonant or with the letter *'y'*, we change 'y' to i and add suffix*-es*to it.
- **Example-**John *watches*cartoon all day.

---

53. **Answer: c**

Explanation:

The correct answer is- **'Plunge'** .

⭐ Key Points

- In the given options, the most appropriate Antonym is- ' **Plunge'** .
- The meaning of Escalate is **to increase** in extent or to **increase quickly** .
  - **Example-** His family's financial problems*escalated*after his father became unemployed.
- We use ' **Plunge'**to refer- **a sudden fall** or jump into something due to force.
  - **Example-** The car lost the control and*plunged*over the edge of the cliff.
- Thus,*option 4*is the correct option.

⭐ Additional Information

Lets us understand the meaning and usage of other options.

- **Attack-** It is an act of trying to harm or destroy someone or something physically or verbally, sometimes with the intent to do harm.
  - **Example-** As soon as the war broke out, the soldiers began a violent *attack*.
- **Pretend** -To act in a specific way in order to convince others that something is false
  - **Example-** We *pretend* that things are really okay when they're not.
- **Employ-** It means to give a job in exchange for money or to put them to use.
  - **Example-** The landlord *employed* too many peasants for cultivation of crops.

54. Answer: b

Explanation:

The correct answer is- 'flaw' .

⭐ **Key Points**

- The most appropriate option to fill in the blank is *'flaw'*.
- We use the word 'flaw' to refer - a mark or crack , in anything that indicates it is imperfect .
  - Example- Due to the *flaw* in the design of the engine, it exploded abruptly.
- Thus, the correct option is option 2) .

The correct sentence: Most natural diamonds have some type of *flaw.*

55. Answer: c

Explanation:

The correct answer is - **'are warmed to'** .

⭐ <u>Key Points</u>

- The given sentence is in **Simple Present Tense** .
- We use is, am, are with third form of verb to make **passive voice** of a simple present tense sentence.
- Thus, the correct option is **(3).**

The correct sentence: The eggs _are warmed to_ a suitable temperature for the larvae to hatch from eggs.

⭐ <u>Additional Information</u>

- In the present simple, the passive is: **am / is / are + past participle** (3rd form of the verb).
  - **Example-** The machines _are made_ in China.
- Let us consider the example below--

	Subject	Verb	Object
Active	The Teacher	helps	the new students.
Passive	The new students	are helped	by the teachers.

56. **Answer: d**

Explanation:

The correct answer is ' **option 4'** .

⭐ <u>Key Points</u>

- The given sentence is correct, so there is ' **no substitution required** '.
- Thus, the correct alternative is- **option 4)** .

The correct sentence: Peterkin readjusted his hat and soon was listening to the conversation with _as much interest as_ I was.

⭐ <u>Additional Information</u>

- The phrase - 'as much as' is used when **two things are equal in amount** .
  - **Example-** John likes caramel*as much as*chocolate fudge.

⭐ Confusion Points

- The phrase - ' **Much as** ' is often confused with ' **as much as'** , but ' **much as** ' conveys different meaning.
- ' **Much as** ' means **although** or **even though** .
  - **Example-** *Much as*he wanted to stay at the party, she had to leave for the office.

---

57. Answer: c

Explanation:

The correct answer is- ' Joyful' .

⭐ Key Points

- The most appropriate synonym word among the given options is - 'Joyful '.
- We use the word - ' Delighted ' when we are really pleased or happy with something.
- Thus, the word very close or with similar meaning to Delighted is - *'Joyful'.*

The correct option is - option 3) Joyful .

⭐ Additional Information

Let us know the meaning and usage of other options.

- Disliked - Aversion or an act of not liking something or someone.
  - Example- I really *dislike* wearing untidy clothes while going out.
- Unsuited- It means - Not right or appropriate.
  - Example- Due to his poor knowledge in the associated skill, he was *unsuited*for this job.
- Coarse- It isused to describe a person or their behavior to impolite ; inclined to annoy others; possessing poor manners .

○ Example- The troops did not try to tone down their *coarse* humor when she was there.

---

58. Answer: c

Explanation:

The correct answer is- **'piece'** .

⭐ **Key Points**

- In the given options, the most appropriate option to fill in the blank is *'piece'*.
- We use **'piece'** to refer - ' **one of the part** or **fraction** of something'.
  ○ Example - A *piece* of cloth, a *piece* of cake etc.
- Thus, the correct option is- **option 3) Piece.**

The correct sentence- *It was the last piece of the puzzle.*

---

59. Answer: d

Explanation:

The correct answer is - **'went'.**

⭐ **Key Points**

- In the given options, the most appropriate option is- **4) went** .
- The given sentence is in **past tense** and **'went'** is the past tense of the verb **'go** ' and is used only in the **Past Indefinite Tense** .
- While **'gone'** is the **past participle** of the verb ' **go** '. It is used in case of **perfect tenses.**
- Rule for simple past sentence is- **Subject + V2 + Object.**
  ○ **Example-** She *visited* a client in London yesterday.
- Thus the correct option is *3) went.*

The correct sentence: *My father* <u>*went*</u> *home last week.*

⭐ **Additional Information**

Let us consider more examples.

Subject	Verb + d, ed, or irregular form (V2)	Rest of Sentence
I / He / She / It You / We / They	walked	to the shop yesterday.
I / He / She / It You / We / They	slept	late last Saturday.

60. Answer: c

Explanation:

The correct answer is - **'Anthology'** .

⭐ **Key Points**

- In the given option, the most appropriate option is- **'Anthology'** .
- **Anthology** refers to the **compilation** of works of literature by **several authors** .
- It sometimes refers to the body of work of a single author (such as The Complete Works of William Shakespeare), but it typically refers to **a collection featuring a variety of authors.**
  - Examples of Anthology –
    1. The Norton Anthology of World Literature.
    2. Chicken Soup for the Soul ·

Thus the correct option is- *option 4).*

61. Answer: d

Explanation:

The correct answer is **Executive** .

⭐ **Key Points**

- The correct spelt word given in the options is **Executive** .
- The other options are the wrong spelt.

⭐ **Additional Information**

- **Executive** means **relating to or having the power to put plans or actions into effect** .

---

62. Answer: b

Explanation:

The correct answer is **By any means.**

⭐ **Key Points**

- The most appropriate meaning of the idiom By hook or by crook is By any means.
  - **Example:** Ramesh will have to complete my assignment today **by hook and by a cook.**
- Thus the correct meaning of the given idiom is By any means.

---

63. Answer: a

Explanation:

The correct answer is **Her expression grew bland again.**

⭐ **Key Points**

- The correct option that corrects the given sentence is Her expression grew bland again.

- In the given sentence there are two wrong-spelt words.
- The first wrong-spelt word is **expresion.** Its correct spelling would be **Expression.**
- The second wrong-spelt word **is blaend.** Its correct spelling would be **Bland.**

⭐ Additional Information

- The word **Expression** means **the act of making your thoughts, feelings, etc.**
- The word**Bland**means **not having a strong taste or character or not showing any interest or energy.**

---

64. **Answer: d**

Explanation:

The correct answer is **Renovate.**

⭐ Key Points

- The most appropriate option to fill in the blank is- **Renovate.**
- The appropriate word is **Renovate** because its meaning is **restored to a good state of repair**and its meaning is especially used for **a building or something old.**
- Thus the correct fill-in-the-blank for the above sentence is **Renovate** .

⭐ Additional Information

- **A stonish-**The word**astonish**means**greatly surprised** or **impressed** or **amazed** .
- **Console-**The word**console**means **a panel**or **unit accommodating a set of controls for electronic** or **mechanical equipment.**
- **Bleat-**The word **bleat** means **the weak, wavering cry made by a sheep, goat, or calf.**

---

65. **Answer: b**

Explanation:

The correct answer is **Soon or later.**

⭐ <u>Key Points</u>

- The part that contains the error from the given options is**Soon or later.**
- **Sooner or later** is a phrase which means **something is certain to happen, even though it's unclear when exactly it will happen.**
- In the given sentence there is a miss spelt phrase has been used. It's **soon or later** .
- Thus the correct phrase would be **sooner or later.**

---

66. **Answer: a**

Explanation:

The correct answer is **To receive unexpected news.**

⭐ <u>Key Points</u>

- The most appropriate meaning of the given idiom is **To receive unexpected news.**
- The idiom **Bolt from the blue** meansTo receive unexpected news.
  - Example: My parents announced they were moving to Australia next month, and that news hit me like a bolt from the blue .
- Thus the correct answer would be To receive unexpected news.

---

67. **Answer: a**

Explanation:

The correct answer is **I have not saw.**

⭐ <u>Key Points</u>

- The part of the sentences that contains an error is**I have not saw.**

- In the given sentence there is an error in the verb form. The verb's 3rd form would be used instead of **saw** .
- The correct structure of the given sentences in the question would be-
  - S + Have/ Has + V $_3$ + O
- Thus the correct form of the verb would be **seen** and the correct sentence would be **I have not seen** your sister since she came to this city.

---

68. Answer: b

Explanation:

The correct answer is Parable.

⭐ <u>Key Points</u>

- The option that can be used as a one-word substitute for the given sentence is **Parable.**
- The one-word substitution for the sentence **A short story with a moral** is Parable.
- Thus the **Parable** is an appropriate one-word substitution.

⭐ <u>Additional Information</u>

- **Memoir-**This substitution word is used for **a historical account or biography written from personal knowledge.**
- **Biography**- This substitution word is used for **an account of someone's life written by someone else.**
- **Axiom -**The meaning of this word would be **a statement or proposition which is regarded as being established, accepted, or self-evidently true.**

---

69. Answer: b

Explanation:

The correct answer is **Copy.**

⭐ <u>Key Points</u>

- The most appropriate synonym of the given word is Copy.
- Imitate means **take as a model .**
- Thus the correct synonym would be Copy.

⭐ <u>Additional Information</u>

- **Surrender** – It means **to give up** or **hand over** .
- **Imagine** – It means to **suppose** or **assume** .
- **Invent** – It means to **create or design** .

---

70. **Answer: a**

Explanation:

The correct answer is **Similarity.**

⭐ <u>Key Points</u>

- The most appropriate antonym of the word **Variety** is **Similarity.**
- **Variety** means **being different or diverse.**
- Thus its antonyms would be Similarity.

⭐ <u>Additional Information</u>

- **Fusion** – The meaning of this word is **the process or result of joining two or more things together to form a single entity.**
- **Diversity** – The meaning of this word is **the state of being diverse.**
- **Medley** – The meaning of this word is **a varied mixture of people or things.**

---

71. **Answer: d**

Explanation:

The correct answer is **Damper.**

⭐ **Key Points**

- The most appropriate option is Damper.
- Damper means **a person or thing that has a depressing, subduing, or inhibiting effect.**
- Thus the appropriate option to fill in the blank is Damper.

---

72. Answer: a

Explanation:

The correct answer is **Choice.**

⭐ **Key Points**

- The most appropriate word in the fill-the-blanks is **choice.**
- **Choice** means **an act of choosing between two or more possibilities.**
  - **Example-**The**choice**between red and black.
- Thus the appropriate word is choice.

⭐ **Additional Information**

- The word **difference** means **a point or way in which people or things are dissimilar.**
- The word **Gap** means **a break or space in an object or between two objects.**
- The word**Bridge**means **a structure carrying a road, path, railway, etc. across a river, road, or other obstacles** .

---

73. Answer: a

Explanation:

The correct answer is **investing.**

⭐ <u>Key Points</u>

- The most appropriate option to fill in the blanks is **investing.**
- The word **investing** means **put (money) into financial schemes, shares, property, or a commercial venture with the expectation of achieving a profit.**
  - Example- I have been **investing** my money in a bank since 2014.
- Thus the appropriate option is investing.

⭐ <u>Additional Information</u>

- The word **Spending**means **money or financial resources expended by a person, group, or government.**
- The word **expanding**means **giving a sense of heightened or broader awareness.**
- The word **spreading**means   **open it out or arrange it over a place or surface, so that all of it can be seen or used easily.**

---

74. **Answer: c**

Explanation:

The correct answer is **Who.**

⭐ <u>Key Points</u>

- The most appropriate option is **who.**
- **WHO** is used for people. The word Who is a subject pronoun. Here it worked as conjunction.
- We use **WHO** to ask which person does an action or which person is a certain way.
  - Example- I want to know **who** stole my beans.
- Thus the correct conjunction is **who** .

⭐ **Additional Information**

- **Which** is used when one needs to ask about things.
- **Whom** is used when one needs to ask something shows passion and owenership.
- **Where-** It is used for asking about location.

---

75. **Answer: a**

Explanation:

The correct answer is Wrong.

⭐ **Key Points**

- The most appropriate option is **Wrong** .
- **Wrong** means**not correct or true.**
- Thus the correct option is**wrong.**

---

76. **Answer: a**

Explanation:

the correct answer is **90 minutes**.

⭐ **Key Points**

- There are **some laws** on the **duration** of **football matches** :
  - A match **lasts** for **two equal halves** of **45 minutes** which may only be **reduced** if **agreed between the referee** and **the two teams** before **the start of the match** and is in accordance with **competition rules** .
  - **Players** are **entitled** to **an interval** at **half-time** , not **exceeding 15 minutes** .
  - If a **penalty kick** has to be **taken** or **retaken** , the **half** is **extended until** the **penalty kick is completed** .

- An **abandoned match** is **replayed unless** the **competition rules** or organizers determine otherwise .

⭐ <u>Additional Information</u>

- Some other **points related to football** :
  - A match consists of **two 45 minutes halves with a 15-minute rest period in between** .
  - Each team **can have a minimum of 11 players** (including **1 goalkeeper** who is the only player **allowed to handle the ball** within the **18-yard box**) and a **minimum of 7 players** are **needed** to constitute a match.

---

77. **Answer: a**

Explanation:

The correct answer is <u>Period: 7 group: 18</u>.

⭐ <u>Key Points</u>

- The **periodic table** , also known as the **periodic table** of the **elements** , is **a tabular display** of the **chemical elements** .
- It is **widely** used in **chemistry** ,**physics** , and **other sciences** , and **is generally** seen as **an icon** of **chemistry** .
- It is **based** on **modern periodic law** which **states** that the **properties of the chemical elements exhibit a periodic dependence on their atomic numbers** . The **table** is **divided** into **four roughly rectangular areas** called **blocks** .
- The **rows of the table are called periods** , and the **columns are called groups** . Elements from the **same column group** of the periodic table show **similar chemical characteristics.**
- The whole periodic table is **divided into 7 periods** ,**18 groups** , and **4 blocks(s, p, d, f).**

⭐ <u>Additional Information</u>

- The **first periodic table** to become **generally accepted** was that of the **Russian chemist Dmitri Mendeleev** in **1869** .
- He **formulated** the **periodic law** as a **dependence of chemical properties on atomic mass** which is **old periodic law** .
- The **periodic table** gives **information about trends** like **atomic radius** ,**electron negativity** ,**electron affinity** ,**ionization enthalpy** , etc.
- When **assigning electrons to orbitals** , we must follow **a set of three rules** :the **Aufbau Principle** ,**the Pauli-Exclusion Principle** , and **Hund's Rule** .

---

78. Answer: b

Explanation:

The correct answer is <u>1983</u>.

⭐ <u>Key Points</u>

- The **Cricket World Cup** (officially known as **ICC Men's Cricket World Cup**) is the **international championship** of **One Day International (ODI) cricket** .
- The **1983 event** was hosted by **England** for **a third consecutive time** .
- **Sri Lanka** had become a **Test-playing nation** , and **Zimbabwe** qualified through the **ICC Trophy** .
- **India** had been **crowned champions** after **upsetting** the **West Indies by 43 runs** in the **final** .

⭐ <u>Additional Information</u>

- The event is **organized** by the **sport's governing body** , the **International Cricket Council** (ICC), every **four years** , with **preliminary qualification rounds** leading up to a **finals tournament** .
- The **tournament** is **one of the world's most viewed sporting events** and is considered the " **flagship event of the international cricket calendar** " by the **ICC** .
- **West Indies won** the **first Cricket World Cup** by **defeating Australia by 17 runs** in the **final** .
- The **next two World Cups** held in **1979** and **1983** were again **hosted by England** .

79. Answer: d

Explanation:

The correct answer is <u>Punjab</u>.

⭐ <u>Key Points</u>

- **Bhagwant Singh Mann** is an **Indian politician** and **current Chief Minister** of **Punjab** .
- He leads the **cabinet ministry** of Punjab and is a **member of the Aam Aadmi Party** . He is **a former actor** ,**comedian** and **satirist** .
- The **Aam Aadmi Party** gained a **strong 79% majority** in the **sixteenth Punjab Legislative Assembly** by **winning 92 out of 117 seats** .
- **AAP Punjab convener** and **MP Bhagwant Mann** were **sworn** in **as Chief Minister on 16 March 2022** .
- **Mann's ministry** was formed with **10 cabinet ministers** on **19 March 2022** .

⭐ <u>Additional Information</u>

- **Jai Ram Thakur** is an **Indian politician** , who currently **serves** as the **Chief Minister** of the **state of Himachal Pradesh** in **India** . He is a **5th time MLA** in **Himachal Pradesh Assembly** winning **continuously since 1998** and has previously **served** as a **Cabinet Minister** in **the BJP Government** of **Himachal Pradesh** .
- **Arvind Kejriwal** is **an Indian politician** ,**former bureaucrat** , and **activist** who is the current and **7th Chief Minister of Delhi** since **February 2015** . He was also the **Chief Minister of Delhi** from **December 2013** to **February 2014** , stepping down after 49 days of assuming power.
- **Manohar Lal Khattar** is an **Indian politician** serving as the **10th and current chief minister of Haryana** . He is a **member** of the **Bharatiya Janata Party** and **a former RSS pracharak** . He represents the **Karnal constituency** in **Haryana Legislative Assembly** .

80. Answer: a

Explanation:

The correct answer is <u>Aligarh</u>.

⭐ <u>Key Points</u>

- **Sir Syed Ahmed Taqvi bin Syed Muhammad Muttaqi** KCSI FRAS, commonly known as **Sir Syed Ahmad Khan** , was **an Indian Muslim pragmatist** ,**Islamic reformer** ,**philosopher** , and **educationist** in **nineteenth-century British India** .
- He was **born** on **17 October 1817** ,**Delhi** and he **died** on **27 March 1898** ,**Aligarh.**
- **He was buried beside** Sir **Syed Masjid** on the **campus** of the **Aligarh Muslim University** .
- **Sir Syed Ahmad Khan** is best known **for the Aligarh Movement —**
- **A systemic movement** aimed at **reforming the social** ,**political** , and **educational aspects** of the **Muslim community** .

⭐ <u>Additional Information</u>

- He is also **the founder** of **Aligarh Muslim University** .
- The **Aligarh Movement** was started by **Sir Syed Ahmad Khan (1817–98**) for the **social** and **educational advancement** of **Muslims in India** .
- It **aimed at social reforms** among **Muslims relating to purdah** ,**polygamy** ,**widow remarriage** ,**women's education** ,**slavery** ,**divorce** , etc. It wanted to impart a distinct **socio-cultural identity** to **Muslims** on **modern lines** .
- He **founded the Scientific Society in 1863** to **translate major works** in the **sciences** and **modern arts into Urdu** .

---

81. Answer: b

Explanation:

The correct anwer is <u>Kuchipudi</u>.

⭐ **Key Points**

- **Vedantam Satyanarayana Sarma** , popularly known as **Satyam** , was **an Indian classical dancer** and **choreographer** .
- He is **considered** by many as **one of the leading exponents** of the **classical dance** form of **Kuchipudi** .
- He was **born on 9 September 1935** , in **Kuchipudi** , and **died** on **16 November 2012** , in **Vijayawada** .
- He was **awarded Sangeet Natak Akademi Fellowship** ,**Sangeet Natak Akademi Awards** , and **Kalidas Samman** .
- **Kuchipudi** is **indigenous** to the **state of Andhra Pradesh** and **differs from the other five classical styles** by the **inclusion of singing** .
- **Kuchipudi originated** in the **17th century** with the **creation by Sidhyendra Yogi** of the **dance-drama Bhama Kalapam** , a story of **Satyabhāma** , the **charming** but **jealous wife** of **the god Krishna** .

⭐ **Additional Information**

- **Mohiniyattam** is an **Indian classical dance** form that **developed** and **remained popular** in the **state of Kerala** .**Kathakali** is another classical dance form of **Kerala** .
- **Kathak** is **one of the eight** major forms of **Indian classical dance** . It is the **classical dance** form of **Uttar Pradesh** . The **origin of Kathak** is **traditionally attributed** to the **traveling bards** of **ancient northern India** known as **Kathakars** or **storytellers** .
- **Kathakali is a major form** of **classical Indian dance** . It is a **"story play"** genre of art, but one distinguished by the **elaborately colourful make-up** ,**costumes** , and **face masks** that the **traditionally male actor-dancers wear** .

---

82. **Answer: a**

Explanation:

The correct answer is <u>Zabt</u>.

⭐ **Key Points**

- The **revenue system** of the **Mughal period** during **Akbar's reign** was called **Zapt** .
- **Raja Todar Mal** was **Akbar's finance minister** , he **introduced this system** .
- He **took a careful survey** of **crop yields** and **prices cultivated** for **a 10 years period** from **1570-1580** .
- The **system of taxation** was **called Dahshala** .
- In **this system ,each province** was **divided** into **revenue circles** with their **own rates** of **revenue** for **each crop** .
- On **this basis** , the **tax was fixed** on **each crop in cash** .

⭐ Additional Information

- **Akbar** was **one of the mightiest emperors** during the **Mughal Era** .
- He was **born in October 1542** and **died on 27th October 1605** .
- **Akbar** was **the third Mughal Emperor** .
- **His reign** was **between 1556-1605 AD** .
- **He was crowned** in **1556** , at the **young age of thirteen years** .
- **He** was **assisted by Barram Khan** .
- **He** is **known** for **his liberal religious policies ,relationship with Indian kings ,conquests** , etc.
- In **1564** , he **abolished** the **jizyah tax levied** on **non-muslims** .
- **Akbar introduced Mansabdari System** in his **administration** .

---

83. **Answer: c**

Explanation:

The correct answer is LED bulbs.

⭐ Key Points

- Flagship programmes of a government are those programmes which are the main or most important and address major national concerns on health , education , environment , irrigation , urban and rural development , employment and other sectors .

- The ultimate objective behind the flagship programmes is to achieve broad-based improvement in the living standards of people and to that growth is widely spread so that its benefits , in terms of income and employment , are adequately shared by the poor and weaker sections of the society .
- The main objective is to promote efficient lighting , enhance awareness on using efficient equipment which reduce electricity bills and help preserve environment .
- Unnat Jyoti by Affordable LEDs for All (UJALA) scheme was launched by Prime Minister of India Shri Narendra Modi on January 05, 2015 .
- UJALA scheme was launched by PM Narendra Modi on 1st May 2015 under the government of India .

⭐ Additional Information

- Ten different flagship schemes of government of India namely MGNREGA, Pradhan Mantri Awas Yojana, Pradhan Mantri Ujjwala Yojana, Pradhan Mantri Mudra Yojana, Pradhan Mantri Jan Dhan Yojana, Pradhan Mantri Kaushal Vikas Yojana, Deen Dayal Upadhya Grameen Kaushalya Yojana, Atal Pension Yojana, Pradhan Mantri Fasal Bima Yojana and Swachh Bharat Abhiyan has been analyzed and apprised .
- As of today , more than 36.78 crore LEDs have been distributed across the country . Success of the programme – which has transformed the lives of tens of thousands of people – lies in its inimitable strategic approach to energy efficiency .

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84. **Answer: d**

Explanation:

The correct answer is **Maldives** .

⭐ Key Points

- **India shares** its **border** with **seven countries Afghanistan** and **Pakistan** to the **North West China Bhutan** and **Nepal to the North Myanmar** to the **far East and**

Bangladesh to the **East Sri Lanka** from the **South East and Maldives** from the **South West** are two **countries** with **water borders** .

- **Maldives** , officially the **Republic of Maldives** , is an **archipelagic state located** in **Southern Asia** ,situated in the **Indian Ocean** . It lies **southwest** of **Sri Lanka** and **India** , about **750 kilometres** from the **Asian continent's mainland** .
- **Maldives** is located **south** of **India's Lakshadweep Islands** in the **Indian Ocean** . Both nations established **diplomatic relations** after the **independence of Maldives** from **British rule in 1966** .
- India was one of the **first nations** to **recognise Maldives' independence** .

⭐ Additional Information

- **Australia** , officially the **Commonwealth of Australia** , is a **sovereign country** comprising the **mainland** of the **Australian continent** , the **island of Tasmania** , and **numerous smaller islands** . With an **area of 7,617,930 square kilometres** , Australia is the **largest country** by **area** in and the **world's sixth-largest country** .
- **Iran** , also called **Persia** , and officially the **Islamic Republic of Iran** , is **a country in Western Asia** .
- **Russia pronounced** or the **Russian Federation** (RF), is a **transcontinental country** spanning **Eastern Europe** and **Northern Asia** . It is the **largest country in the world by area** , covering over **17,098,246 square kilometres** (6,601,670 sq mi), and **encompassing one-eighth** of Earth's **inhabitable landmass** .

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85. **Answer: c**

Explanation:

The correct answer is <u>B3</u>.

⭐ Key Points

- **Niacin (vitamin B3)deficiency results** in a **condition known as pellagra** .
- **Pellagra includes** the **triad of dermatitis** ,dementia , and **diarrhea** and can **result in death** .
- **Niacin deficiency** can occur **through genetic disorders** ,malabsorptive **conditions** , and **interaction** with **certain medications** .

- **Vitamin B3** is **found naturally** in a wide variety of **both animal and plant-based foods** ,including beef ,liver ,poultry ,eggs ,dairy products ,fish ,nuts ,seeds ,legumes ,avocados , and **whole grains** .

⭐ <u>Additional Information</u>

- A **deficiency of vitamin B1** commonly leads to **beriberi** , a condition that **features problems with the peripheral nerves and wasting** .**Weight loss** and **anorexia** can develop. There may be **mental problems** , including **confusion** and **short-term memory loss** .
- **Vitamin B5 deficiency** is rare but may include **symptoms such as fatigue** ,insomnia ,depression ,irritability ,vomiting ,stomach pains ,burning feet , and **upper respiratory infections** .
- **Riboflavin deficiency(B2)** can cause **fatigue** ,swollen throat ,blurred vision , and **depression** . It can affect the **skin by causing skin crack** ,itching , and **dermatitis** around the **mouth** .**Hyperemia** and **edema** around the **throat** ,liver **degeneration** and **hair loss** can also occur along with **reproductive issues** .

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86. **Answer: d**

Explanation:

The correct answer is <u>Andhra Pradesh</u>.

⭐ <u>Key Points</u>

- **Deccan Festival is** an **annual celebration** in **Hyderabad** that goes on **for a span of 5 days** .
- It is **also known as** the **Hyderabad festival** and is known to be **celebrated** in an **extravagant fashion** .
- **Filled with colours** ,music and fairs , it is a **massive celebration** that brings **out the culture of this city** .
- The **festival** is basically celebrated to **rejoice in the era of Qutab Shahi** .
- **Qutab Shahi rulers in Hyderabad** are **believed to be** the **great patrons** of **art** and **literature of their times** .

⭐ **Confusion Points**

- Hyderabad is the joint capital city for both Andhra Pradesh and Telangana till 2024 as per the Andhra Pradesh Reorganisation Act, 2014.
    - Among the given options Andhra Pradesh is the correct answer.

⭐ **Additional Information**

- **Onam** is the **most important** and **popular festival in Kerala** . Celebrated with much **pomp and fervor,** Onam is a **harvest festival** .
- The **Hampi Festival ,celebrated in November** , is one of the **most important festivals** in **Karnataka** celebrated on **a grand level** .
- **Ganesh Chaturthi** is the **most important festival** in **Maharashtra** . It is **celebrated** for **ten days** with **huge fun fare** .

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87. **Answer: a**

Explanation:

The correct answer is <u>Compulsory acquisition of property</u>.

⭐ **Key Points**

- **Article 31** is about the **Compulsory acquisition of property** .
- **Article 31** provided that " **no person shall be deprived of his property save by authority of law** ."
- It also **provided** that **compensation would be paid** to a person whose **property** has been taken **for public purposes** .
- The **acquisition** by **the State of** any **estate** or of **any rights therein** or the **extinguishment** or **modification** of any **such rights.**
- The **taking over** of the **management** of **any property** by **the State for a**limited **period** either in **the public interest** or in order to **secure the proper management of the property** ,
- The **amalgamation** of **two or more corporations** either in **the public interest** or in **order to secure the proper management** of any of **the corporations.**

- The **extinguishment** or **modification** of any **rights** of **managing agents** ,secretaries and treasurers ,managing directors ,directors or managers of corporations , or of **any voting rights of shareholders** .

⭐ <u>Additional Information</u>

- **Protection of interests of minorities comes** under **article 30** .
- **Abolition of titles** comes under **article 18** of the Indian constitution.
- **The right to education** comes under **article 21-A** of the Indian constitution.

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88. Answer: b

Explanation:

The correct answer is <u>Five.</u>

⭐ <u>Key Points</u>

- Writs are written order from the Supreme Court or High Court that commands constitutional remedies for Indian Citizens against the violation of their fundamental rights.
- Article 32 in the Indian Constitution deals with constitutional remedies that an Indian citizen can seek from the Supreme Court of India and High Court against the violation of his/her fundamental rights.

⭐ <u>Important Points</u>

1. The Supreme Court of India is the defender of the fundamental rights of the citizens. For that, it has original and wide powers. It issues five kinds of writs for enforcing the fundamental rights of the citizens.
2. Habeas Corpus, Mandamus, Prohibition, Certiorari, and Quo-Warranto are the five types of writs issued by the supreme court of India.
3. The same article gives the Supreme Court power to issue writs for the enforcement of rights whereas the High Court has the same power under Article 226.

Hence, Five types of writs can be issued by the Supreme Court of India.

89. Answer: b

Explanation:

The corrrect answer is <u>Amritsar</u>.

⭐ <u>Key Points</u>

- The Golden Temple is a gurdwara located in the city of Amritsar, Punjab, India. It is the preeminent spiritual site of Sikhism.
- It is one of the holiest sites in Sikhism, alongside the Gurdwara Darbar Sahib Kartarpur in Kartarpur, and Gurdwara Janam Asthan in Nankana Sahib.
- It is completed in 1589.

⭐ <u>Additional Information</u>

- The Harmandir Sahib is significant because it housed the Sikhs' holy book, the Adi Granth , when it was completed in 1604. Later on, Guru Gobind Singh added to the Adi Granth the compositions by his father, Guru Tegh Bahadur.

90. Answer: d

Explanation:

The correct answer is <u>Malgudi Days</u>.

⭐ <u>Key Points</u>

- Rasipuram Krishnaswami Iyer Narayanaswami (10 October 1906 – 13 May 2001) was an **Indian writer** .
- He is **known** for his **work set in the fictional South Indian town of Malgud** .
- He was a **leading author of early Indian literature** in **English** along with **Mulk Raj Anand** and **Raja Rao** .
- He was **awarded** :Padma Bhushan ,**Filmfare Award for Best Story** , and **Padma Vibhushan** .

- He was **also nominated** for the **Nobel Prize for Literature multiple times** .

⭐ <u>Additional Information</u>

- **Aravind Adiga** is an **Indian writer** and **journalist** . His debut novel, **The White Tiger** , won the **2008 Man Booker Prize** .
- **Think Like a Monk** is written by **Jay Shetty** .
- **The Shadow Lines** written by **Amitav Gosh** .

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91. **Answer: b**

Explanation:

The correct answer is <u>Sukhbir Singh</u>.

⭐ <u>Key Points</u>

- **Sukhbir Singh** is an **Indian singer** .
- He is **often referred** to as the **"Prince of Bhangra"**.
- His **Bhangra music** varied from **fusion to pure Punjabi** at **times** .
- He was **born on 9 November 1969 in Jalandhar** .
- His **famous albums** are   **Hindi Medium, Good Newz, Dhoom D:1 And D:2, Switchh (Original Motion Picture Soundtrack), and Dhoom2.**

⭐ <u>Additional Information</u>

- **Diljit Dosanjh** is an **Indian singer** ,**actor** ,**film producer** , and **television presenter** who works **in Punjabi and Hindi cinema** .
- **Arijit Singh** is an **Indian singer** and **music composer** . He **sings predominantly** in his **native Bengali** and **Hindi** but has also performed in various other Indian languages. He is the **recipient** of a **National Award and six Filmfare Awards** .
- **Shantanu Mukherjee** , known as **Shaan** , is an **Indian playback singer** ,**actor** , and **television presenter** active in **Hindi, Bengali, Marathi** ,**Assamese** ,**Kannada** , and **Telugu** ,**Tamil** ,**Gujarati** ,**Marathi** ,**Malayalam** , and **Urdu language films** and **a television host** .

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92. Answer: d

Explanation:

The correct answer is <u>Arunachal Pradesh</u>.

⭐ <u>Key Points</u>

- The **Brahmaputra** , also known as the **Yarlung Tsangpo** in **Tibet** , the **Siang/Dihang River** in **Arunachal Pradesh** , and **Luit in Assamese** , is a **trans-boundary river** which **flows through Tibet, India, and Bangladesh** .
- It is the **9th largest river in the world** by discharge, and the **15th longest** .
- The **length of this river is 2900 km** .
- **Himalyas** is the **source** of this river.
- **Brahmaputra enters** in India through **Arunachal Pradesh** .

⭐ <u>Additional Information</u>

- **The five rivers** of **Punjab** are- **Satluj, Beas, Ravi, Chenab and Jhelum** . River Beas merges into Satluj near Ferozpur at Harike in Punjab. The area between **Beas** and **Satluj** is called **Doaba** . The area **between Beas** and **Chenab** is called **Majha** and on **both sides of Ravi** , is called the **heart of Punjab** .
- The **Imphal River** also known as the **Turel Achouba** , is a **major river** in **Manipur state** , northeastern India.
- **The Brahmaputra** is the **main river** and the life **line of Assam** .

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93. Answer: d

Explanation:

The correct answer is <u>Neolithic</u>.

⭐ <u>Key Points</u>

- The **Neolithic period** is the **final division** of the **Stone Age** , with a **wide-ranging set** of **developments** that **appear** to **have arisen independently** in **several parts** of **the world** .
- **The new stone age** is also called **Neolithic** .
- The **Neolithic period** is significant for its **megalithic architecture** ,**the spread of agricultural practices** , and the **use of polished stone tools** .
- The **Neolithic Revolution** started around **10,000 B.C.** in the **Fertile Crescent** , a **boomerang-shaped region** of the **Middle East** where humans first took up **farming** .

⭐ <u>Additional Information</u>

- In archaeology, the **Epipalaeolithic** or **Epipaleolithic** is a term for a **period occurring** between the **Upper Paleolithic** and **Neolithic during** the **Stone Age** .
- During the **Mesolithic period** (about **10,000 B.C. to 8,000 B.C.),** humans used **small stone tools** , now also **polished and sometimes crafted** with **points** and **attached to antlers** ,**bone** , or **wood to serve** as **spears and arrows** .
- The **Paleolithic Period** , or **Old Stone Age** ,**Ancient technological** or **cultural stage** characterized by the **use of rudimentary chipped stone tools** . During the **Lower Paleolithic** (c . **2,500,000–200,000 years ago**), simple pebble tools and **crude stone choppers** were made by the **earliest humans** .

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94. **Answer: d**

Explanation:

The correct answer is <u>wind erosion</u>.

⭐ <u>Key Points</u>

- **A mushroom rock** also called a **rock pedestal** , or **a pedestal rock** is a **naturally occurring rock** whose **shape** , as its **name implies** ,**resembles a mushroom** .
- **The rocks are deformed** in a **number of different ways :by erosion and weathering** ,**glacial action** , or a **sudden disturbance** .**Mushroom rocks** are **related to** , but **different from, yardang** .

- A **mushroom rock** , rock pedestal, or gour is a typical **mushroom-shaped landform** that is formed **by the action of wind erosion** .
- It's an **average height** of **two to three feet** (**0.6 to 0.9 m**) from **the base** .
- **Wind erosion** is a **natural process** that moves the **soil from one location** to **another by wind power** . It can **cause significant economic and environmental damage** .

⭐ <u>Additional Information</u>

- **Debris** in the **glacial environment** may be **deposited directly by the ice** (till) or, after **reworking** , by **meltwater streams** (outwash). The **resulting deposits** are **termed glacial drift** .
- **Deposition occurs** where **waves** and **other ocean motions slow** . The **smallest particles** , such as silt and clay, are **deposited away from the shore** . **Larger particles** are **deposited on the beach** .
- **Heavy rainfall** or the **melting of snow** creates **running water** which **removes soil by sheet** ,**rill** , or **gully erosion** . Rill **erosion** occurs in **discrete streamlets carved into the soil** . When rills **become too deep** to **be removed by plowing** ,gullies form .

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95. **Answer: a**

Explanation:

The correct answer is <u>two.</u>

⭐ <u>Key Points</u>

- Angiosperms
  - Angiosperms are **vascular plants with stems, roots, and leaves.**
  - The seeds of the angiosperm are found in a flower.
  - These make up the majority of all plants on earth.
  - The seeds develop inside the plant organs and form fruit. Hence, they are also known as **flowering plants.**
  - Angiosperms are the most advanced and beneficial group of plants.

- They can grow in various habitats such as **trees, herbs, shrubs, and bushes.**
- Angiosperms are divided into **two groups** on the basis of the number of cotyledons.
  - **Monocotyledons**
  - **Dicotyledons**

⭐ <u>Additional Information</u>

- **Gymnosperms**
  - Gymnosperms are a group of **plants that produce seeds not enclosed within the ovary or fruit.**
  - Gymnosperms are seed-producing plants, but unlike angiosperms, they produce seeds without fruits.
  - These plants develop on the surface of scales or leaves, or at the end of stalks forming a cone-like structure.
  - Gymnosperms belong to kingdom **'Plantae'** and sub-kingdom **'Embryophyta'**.
  - The family of gymnosperms consists of **conifers, cycads, the gnetophytes and the species of Gynkgophyta division and Ginkgo biloba.**

96. **Answer: c**

Explanation:

The correct answer is <u>Chhau</u>.

⭐ <u>Key Points</u>

- **Chhau dance** is **a semi-classical Indian dance** with **martial** and **folk traditions** .
- It is **found in three styles** named after the location where they are performed, i.e. the **Purulia Chhau of West Bengal** , the **Seraikella Chhau** of **Jharkhand** and the **Mayurbhanj Chhau** of **Odisha** .
- The **Chhau dance** is mainly **performed** during **festivals** in the **region of** Jharkhand ,West Bengal , and **Odisha** .

- **Chhau dance** is **performed** during the **spring festival** of **Chaitra Parva** and in which the **whole community participates** .
- The **Purulia Chhau dance** is celebrated **during the Sun festival** .
- **Shree Rajkumar Surendra Narayan Singhdeo** ,**Late Brajendra Narayan Singhdeo** , later on, **our guru Padmashree Suddhendra Narayan Singhdeo** , and **Guru Padmashree Kedarnath Sahoo** they are **famous dancers of chhau** .

⭐ Additional Information

- **Paika** is a **traditional dance** form associated with **Jharkhand** .**Paika dance** is mainly **performed** by the **Munda community** .**Paikas** were **a group** of **soldiers** who **sacrificed their lives** for the **safety of the kingdom** . This **dance form represents** the great **war of the Munda community against the British** .
- **Danda Naata** or **Danda Jatra** is one of the **most important traditional dance festivals** organized in **different parts of South Odisha** . The Danda Naata festival is held in the **month of Chaitra every year** .
- **Jhumair** or **Jhumar** is an **Indian folk dance** from the Indian states of **Bihar** ,**Jharkhand** ,**Chhattisgarh** ,**Odisha** , and **West Bengal** . It is the folk dance of Sadan.

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97. **Answer: c**

Explanation:

The correct answer is **30%**.

⭐ Key Points

- **Income Tax** is **a tax you pay directly** to **the government basis your income or profit**. The **Government of India** collects **income tax. Taxes are of two types** - **direct tax** and **indirect tax.**
- **Income Tax** is **undoubtedly** the **most crucial source** of **revenue** for the **Indian Government.**
- **Any Indian citizen** aged **below 60 years** is **liable to pay income tax** if **their income exceeds Rs 2.5 lakhs**. If the **individual is above 60 years** of age and

earns more than **Rs 2.5 lakhs**, they will have to pay **taxes** to the **Government of India**.

- Income tax slabs:

New Income Tax Slabs & Rates : FY 2021-22 (AY 2022-23)	ReLakhs.com
Income Slabs	**Income Tax Rates**
Upto Rs. 2,50,000	Nil
Rs. 2,50,001 to Rs. 5,00,000	5% (with Tax Rebate u/s 87a)
Rs. 5,00,001 to Rs. 7,50,000	10%
Rs. 7,50,001 to Rs. 10,00,000	15%
Rs. 10,00,001 to Rs. 12,50,000	20%
Rs 12,50,001 to Rs 15,00,000	25%
Above Rs. 15,00,000	30%

* To avail the new tax regime, which is optional, taxpayers will have to let go of income tax exemptions.

⭐ <u>Additional Information</u>

- **Calculation of** income tax:
  - **Income** from **salary** is the **sum of Basic salary + HRA + Special Allowance + Transport Allowance** + any **other allowance.** Some components of your salary are **exempt from tax,** such **as telephone bill reimbursement,** and **leave travel allowance.**
  - If you **receive HRA** and **live on rent,** you can **claim an exemption on HRA.**
  - Then **you have to find** in **which column** you are **falling** and have to **calculate tax accordingly.**

98. Answer: b

Explanation:

The correct answer is <u>Plantation agriculture</u>.

⭐ <u>Key Points</u>

- In the **cultivation of tea** some **points are required** :
    - **Tea requires well-drained soil** with a **high amount of organic matter** and a **pH of 4.5 to 5.5** .
    - **The performance** of **tea** is **excellent** at **elevations ranging from 1000 - 2500 m** .
    - **Optimum temperature: 20 - 270 C** . The **nursery soil should** be **well drained** and **deep loam** in nature with **a pH of 4.5 to 4.8** .
- **Plantations** are a **type of commercial farming** where **a single crop of tea ,coffee ,sugarcane ,cashew ,rubber ,banana** , or **cotton** is grown. A large amount of **labor** and **capital** are **required** .

⭐ <u>Additional Information</u>

- Mixed farming is a type of farming that involves both the growing of crops and the raising of livestock. Such agriculture occurs across Asia and in countries such as India, Malaysia, Indonesia, Afghanistan, South Africa, China, Central Europe, Canada, and Russia.
- It is a form of agriculture found in the Mediterranean-type of climate. The four main aspects are orchard farming, viticulture, cereal, and vegetable cultivation. Products grown include olives, pomegranates, oranges, figs, pears, grapes, etc.
- In shifting agriculture a plot of land is cleared and cultivated for a short period of time; then it is abandoned and allowed to revert to its natural vegetation while the cultivator moves on to another plot.

99. Answer: a

Explanation:

The correct answer is <u>Lord Curzon</u>.

⭐ <u>Key Points</u>

- Within **India ,Curzon** appointed a **number of commissions to inquire into education ,irrigation ,police** and **other branches of administration** , on whose **reports legislation** was based **during** his **second term of office as viceroy** .
- **Reappointed Governor-General** in **August 1904** , he **presided over** the **1905 partition of Bengal** .
- He **passes the Calcutta Corporation Act in 1899** which **reduced the strength of elected members** from **India giving** the **British majority** .
- He also **passed the Indian Universities Act of 1904** which **imposed strict official control over the Indian Universities** as **he considered them as the centres of Indian nationalism** .

⭐ <u>Additional Information</u>

- **Lord Lytton** was **an English politician** who **served** as **Viceroy of India from 1876 to1880** . He is commonly **regarded as a ruthless viceroy due** to **his approach** to the **Great Indian Famine** of **1876-1878** and the **Second Anglo-Afghan War** .
- **Lord Hardinge** was a **British diplomat** and **statesman** who served **as Viceroy and Governor-General** of **India from 1910 to 1916** .
- **Lord Irwin** from **1925 until 1934** and **The Viscount Halifax** from **1934 until 1944** ,was a **senior British Conservative politician of the 1930s** .

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100. **Answer: a**

Explanation:

The correct answer is <u>Uttar Pradesh</u>.

⭐ <u>Key Points</u>

- As per the **2011 Census** , the most **densely populated state** in **India** is **Uttar Pradesh** .
- In **2001** , the density of **Uttar Pradesh** was **690 per sq km** , while the **nation's average in 2001** was **324 per sq km** .
- As per the **Aadhar Statistics** , the **Uttar Pradesh population** is **228,959,599** (**228.96 Million**) as compared to the last census in 2011 is **199,581,477.**
- The least **densely populated state** in **India** is **Arunachal Pradesh** .**Total Density: 17** .
- **Delhi** is the **densest Union Territory** in **India** . It has a **total density of 11320** .
- **Andaman** and **Nicobar Islands** is the **least densely populated UT** in India. **Total Density: 46.**

⭐ <u>Additional Information</u>

- The population density of India is 382. Earlier, in the 2001 Census, the total population density was 324.
- Bihar has the second highest population density with 1103.