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: 25 July 2022 Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl 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. Select the option that is related to the sixth number in the same way as the   (+1, −0.25)
   first number is related to the second number and the third number is
   related to the fourth number.

   1246 : 2164 :: 3482 : 4328 :: ? : 2548

   a. 2485

   b. 5284

   c. 2854

   d. 2458

2. What will come in the place of '?' in the following equation, if '+' and '×' are   (+1, −0.25)
   interchanged and also '−' and '÷' are interchanged?

   4 + 8 ÷ 4 × 2 − 2 = ?

   a. 44

   b. 28

   c. 48

   d. 29

3. What will be the value of the given expression if 'A' means '+', 'B' means '−',   (+1, −0.25)
   'C' means '×', and 'D' means '÷'?

   50 A 40 B 10 C 12 D 2 = ?

   a. 35

b. 20

c. 40

d. 30

---

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

ROBY : TJDT :: GAIN : ?

a. IVKI

b. IUKJ

c. IUKI

d. IVKJ

---

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

LOCAL : SVJHS :: PROOF : WYVVM :: STAGE : ?

a. ZAHML

b. ZAINL

c. ZAHNL

d. ZAHNK

---

6. In a certain code language, if Grapes is called Grass, Grass is called Jasmine, Jasmine is called Jaggery, Jaggery is called Melon, and Melon is called Guava, then what is a manmade object? **(+1, −0.25)**
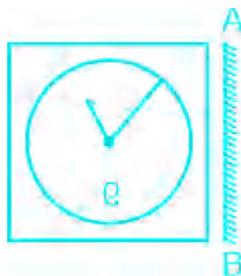
   a. Jaggery

   b. Melon
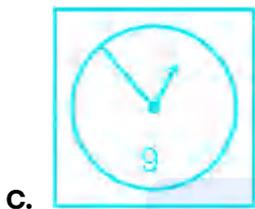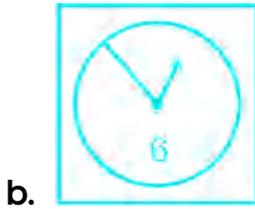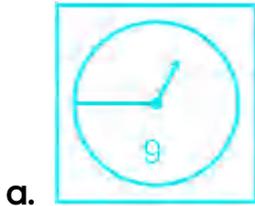
   c. Guava

   d. Jasmine

7. Select the option in which the pair of letter-clusters share the same relationship as that shared by the given letter-clusters. **(+1, −0.25)**

   AM : EQ

   a. RS : VX

   b. LB : JF

   c. GH : KE

   d. PT : TX

8. Select the correct mirror image of the given figure when the mirror is placed at the right side. **(+1, −0.25)**

a.

b.

c.

d.

9. 8 boys A, B, C, D, E, F, G and H are sitting around a square table facing **(+1, -0.25)** towards the centre (not necessarily in the same order). 4 boys are sitting at each corner, and 4 boys are sitting at the middle of each side of the table. A is an immediate neighbour of H and G. A is sitting at a corner. B is an immediate neighbour of D and C. E is an immediate neighbour of C and F. G is third to the right of D. Three out of the following four options follow a similar rule and form a group. Which of the following does NOT belong to that group?

a. EB

b. BH

c. AF

d. GC

---

10. Identify the number that does NOT belong to the following series.　　(+1, -0.25)

34, 63, 94, 131, 172, 225

a. 94

b. 63

c. 172

d. 225

---

11. J, K, L, M and N are sitting on a bench facing towards north (but not　　(+1, -0.25)
necessarily in the same order). J is immediate neighbour of K. L is
immediate neighbour of N. J is not sitting with M who sits on the right end
of the bench. J sits to the right of L and N. L sits to the right of N. In which
position L is sitting?

a. Second from the right

b. Second from the left

c. Fourth from the left

d. Third from the left

---

12. Select the option that will replace the question mark (?) in the given　　(+1, -0.25)
series.

49, 53, 61, 73, 89, ?

a. 108

b. 109

c. 107

d. 111

---

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

YZCD, WXEF, UVGH, STIJ,?

a. MNKL

b. QROP

c. MNOP

d. QRKL

---

14. In a certain code language, 'Parties are scrumptious' is written as '@ # %', 'Peter loves parties' is written as '% fr kn' and 'Here scrumptious are cakes' is written as '# 6 9 @'. What can be the possible code for 'Here parties' in that code language? (+1, -0.25)

a. # 9

b. % #

c. 6 9

d. % 9

---

15. Select the option in which the numbers are related in the same way as are the numbers in the given set. (+1, -0.25)
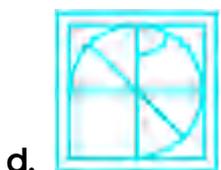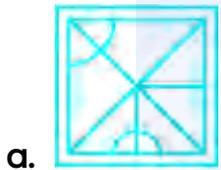
(11, 23, 47)

a. (17, 35, 69)

b. (13, 27, 54)

c. (19, 39, 79)

d. (23, 46, 93)

---

16. Select the option in which the given figure is embedded (Rotation is not allowed).　　(+1, −0.25)

a.

b.

c.

d.

17. 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:

All pen are table.

All rubber are pen.

Conclusions:

I. All pen are rubber.

II. All table are pen.

III. No rubber is table.

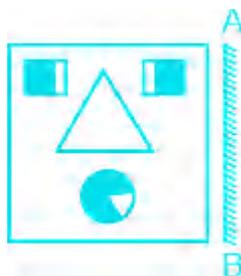   **a.** Both conclusions II and III follow.
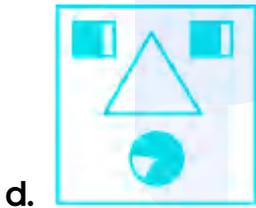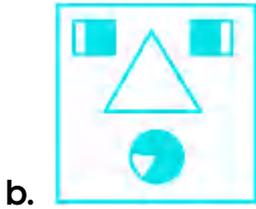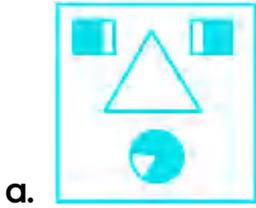
   b. All conclusions follow.

   c. Only conclusion III follows.

   d. Neither conclusion follow.

---

18. Select the correct mirror image of the given figure when the mirror is placed to its right side.

(+1, −0.25)

a.

b.

c.

d.

19. 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.

---
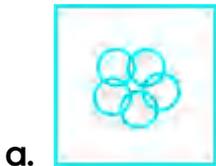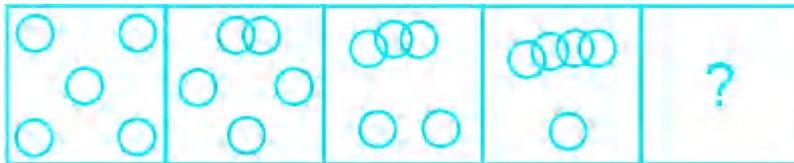
20. The prices of seven mobiles M1, M2, M3, M4, M5, M6 and M7 are compared. **(+1, -0.25)** The price of M7 is more than M5 and less than M4. The price of M1 more than M6 and less than M2. The price of M2 is less than the price of M5. If the price of M4 is less than only one mobile, then which of the following options is correct?

a. M3 > M4

b. M6 > M5

c. M1 > M5

d. M7 > M3

---

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

a.

b.

c.

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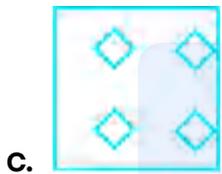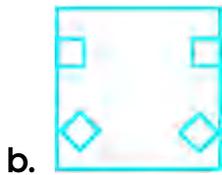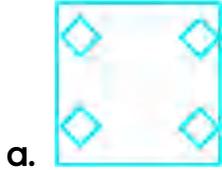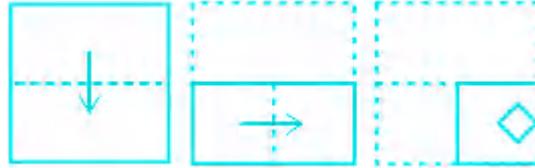
22. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.   (+1, −0.25)

Statements:

I. No L is P.

II. No R is L.

Conclusions:

I. Some R are not P.

II. Some R are not L.

a. Only conclusion I follows

b. Neither conclusion I nor II follows

c. Both conclusions I and II follow

d. Only conclusion II follows

---

23. In a certain code language, 'DETECT' is written as 'FCVCER' and 'HEIGHT' is written as 'JCKEJR'. How will 'MOTHER' be written in that language? **(+1, -0.25)**

a. ONVFGP

b. OMVFGO

c. OMVEGP

d. OMVFGP

---

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

a.

b.

c.

d.

---

25. In a certain code language, 'TRUMPS' is written as 'VTWORU' and 'GAYTER' **(+1, -0.25)**
is written as 'ICAVGT'. How will 'HEINAP' be written in that code language?

a. JGKPCR

b. JGLPCR

c. JGLQCR

d. JGKQCR

Numerical Aptitude

26. Z is increased successively by $11\frac{1}{9}$ % and 10% to get R. If R = 165, then what is the value of Z? **(+1, -0.25)**

    a. 145

    b. 115

    c. 125

    d. 135

---

27. An car moves through 20 m in 3 minutes and the next 50 km at a speed of 100 km/h. What is the approximate average speed of the car? **(+1, -0.25)**

    a. 22.38 m/s

    b. 20 m/s

    c. 25.26 m/s

    d. 26.28 m/s

---

28. If the sum of the diagonals of a rhombus is L and the perimeter is 4P, find the area of the rhombus? **(+1, -0.25)**

    a. $\frac{1}{4}(L^2 - P^2)$

    b. $\frac{1}{2}(L^2 - 4P^2)$

    c. $\frac{1}{4}(L^2 + 3P^2)$

    d. $\frac{1}{4}(L^2 - 4P^2)$

29. If P = 7 × 4 − 3, Q = 8 ÷ 4 + 2, and R = 14 ÷ 21 × 9, then what is the value of P × Q + R?　　(+1, −0.25)

   a. 96

   b. 112

   c. 108

   d. 106

---

30. If A1 and A2 are two distinct prime numbers, then what is the highest common factor of A1 and A2?　　(+1, −0.25)

   a. 3

   b. 1

   c. 5

   d. 2

---

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

The table shows the population of three cities P, Q and R, as percentage of the total population of these three cities taken together. It also shows the percentage of the population above 60 years of age in each of these cities, and also the ratio of males to females below 60 years of age, in each of these cities. The total population of all the three cities taken together is 3,00,000.

CITY	POPULATION	ABOVE 60	M : F (BELOW 60 YEARS)
P	45%	30%	3 : 7
Q	30%	70%	3 : 1
R	25%	40%	12 : 13

Find the male population of city R that is below 60 years.

a. 19,800

b. 24,600

c. 21,600

d. 30,000

32. The present ages of Vishal and Shekhar are in the ratio of 14 : 17. Six years   (+1, -0.25)
from now, their ages will be in the ratio of 17 : 20. What is Shekhar's present
age?

a. 51 years

b. 34 years

c. 36 years

d. 17 years

33. What is the difference between a discount of 35% and two successive   (+1, -0.25)
discounts of 30% and 5% on a bill of ₹10,00,000?

a. ₹15,500

b. ₹15,000

c. ₹14,000

d. ₹16,500

---

34. The following bar chart shows the number of bottles of green and red colours sold by 5 different shops. **(+1, −0.25)**

Legend: ■ Green □ Red

S1: Green 45, Red 71
S2: Green 53, Red 68
S3: Green 58, Red 55
S4: Green 63, Red 69
S5: Green 31, Red 87
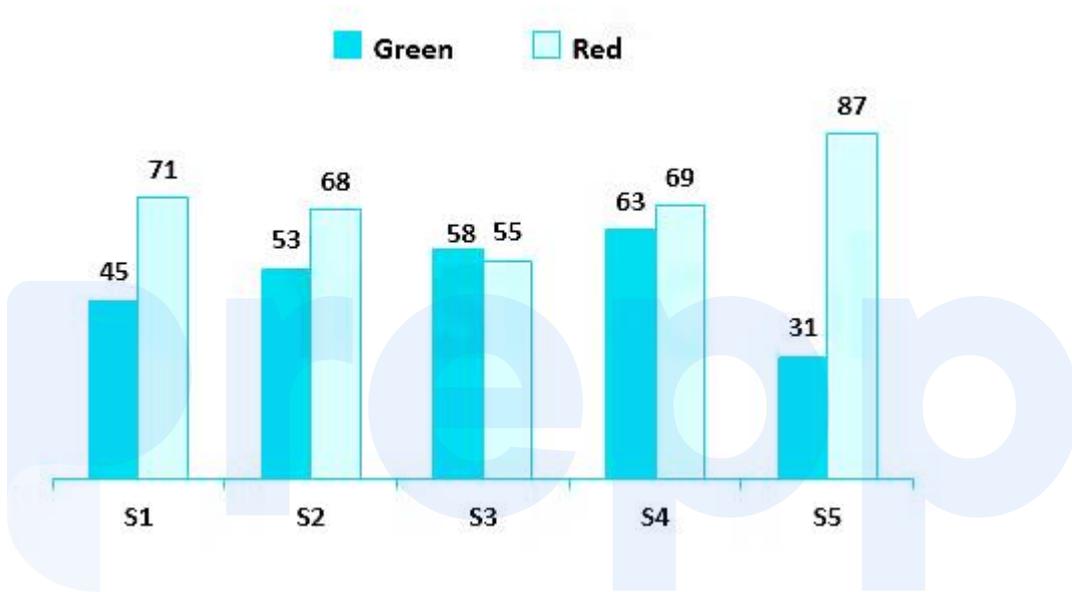
What is the ratio of the total number of green bottles sold by the 5 shops taken together to the total number of red bottles sold by the 5 shops taken together?

a. 3 : 5

b. 6 : 11

c. 4 : 7

d. 5 : 7

---

35. The profit earned when a painting is sold for ₹1,200 is 15 times the loss incurred when it is sold for ₹240. At what price should be the painting be sold to make a profit of 40%? **(+1, −0.25)**

a. ₹300

b. ₹480

c. ₹360

d. ₹420

---

36. 10 horses can graze a field in 14 days, and 10 sheep take 28 days to graze the same field. How many days will 5 horses and 10 sheep take to graze the same field? **(+1, −0.25)**

a. 28

b. 10

c. 14

d. 20

---

37. The pie-chart shows the distribution of the 5,00,040 employed people of a city according to their occupations in terms of the central angles of the sectors representing people engaged in the different occupations mentioned. **(+1, −0.25)**
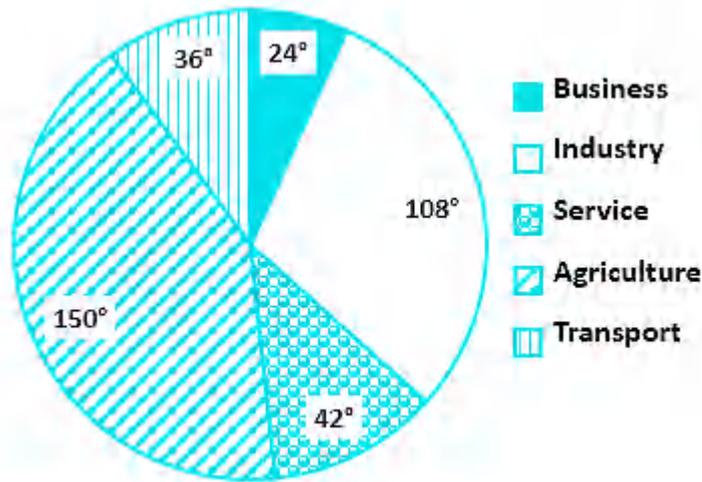
As per the information provided above, how many more people work in the service sector when compared to the number of people who engage themselves in business?

a. 24,492

b. 25,684

c. 25,000

d. 25,002

---

38. The length, the breadth, and the height of a cuboidal room are given as 80 m, 70 m, and 80 m, respectively. What will be the total cost of painting the four walls of this room, at the rate of 50 paise per square metre? **(+1, −0.25)**

a. ₹1,20,000

b. ₹28,000

c. ₹48,000

d. ₹12,000

---

39. The population of a town increases by 8% every year. If the present population of the town is 14,580, then what was the population of the town 2 years ago?

(+1, -0.25)

   a. 13,600

   b. 12,200

   c. 13,765

   d. 12,500

---

40. The cost price of a notebook is ₹120. It is sold at a profit of 40%. What is the nominal profit made on the sale of each notebook?

(+1, -0.25)

   a. ₹40

   b. ₹48

   c. ₹36

   d. ₹24

---

41. The speed of a motor-boat in still water and the speed of the current of water are in the ratio 20 : 4. To go a certain distance along the current the boat takes 4 hours. Find the time taken by the boat to cover the same distance against the current.

(+1, -0.25)

   a. 10 hours

   b. 8 hours

   c. 12 hours

d. 6 hours

---

42. A man travels for 3 minutes at a speed of 22 km/h. What is the distance travelled by the man? **(+1, -0.25)**

   a. 2200 metres

   b. 550 metres

   c. 1650 metres

   d. 1100 metres

---

43. A is 25 % less than B. B is 30% more than 120. What is the value of A? **(+1, -0.25)**

   a. 117

   b. 111

   c. 114

   d. 108

---

44. The average weight of A, B, C and D is 33 kg. C is 12 kg lighter than A, while B is 6 kg heavier than C. D's weight is 10 kg less than that of C. What is the average of A and D? **(+1, -0.25)**

   a. 34 kg

   b. 33 kg

   c. 35 kg

   d. 32 kg

---

45. Ridhaan took a loan of ₹12,000 at the rate of 8% simple interest per annum. What amount will he have to pay after 6 months, if he decides to repay the entire loan amount with interest at that time?

(+1, −0.25)

a. ₹12,580

b. ₹12,480

c. ₹14,690

d. ₹13,720

46. 22 boys, working together, can complete a work in 10 days, whereas 25 boys and 12 girls take 8 days to complete the same work. In how many days can only 6 girls, working together, complete the same work?

(+1, −0.25)

a. 170

b. 177

c. 175

d. 176

47. Select the number that will come in place of the question mark (?) in the following mathematical statement.

(+1, −0.25)

$(9^2 \times 27 + 3^2 \times 7 + ?)^{\frac{1}{2}} = 59$

a. 1087

b. 1231

c. 1111

d. 1090

---

48. Three numbers are in the ratio of 1 : 2 : 3. The product of the three numbers is 1296. What is the sum of the three numbers?   (+1, -0.25)

    a. 36

    b. 30

    c. 72

    d. 24

---

49. The average of a certain set of 'b' numbers is 'a', and the average of a certain set of 'a' numbers is 'b'. What is the average of all the numbers taken together?   (+1, -0.25)

    a. $2b \div (a + b)$

    b. $2ab \div (a + b)$

    c. $(a + b) \div 2ab$

    d. $2a \div (a + b)$

---

50. The area of a square is 1296 cm^2 and the radius of a circle is $\frac{7}{6}$ of the length of a side of the square. What is the ratio of the perimeter of the square and the circumference of the circle? [Use $\pi = \frac{22}{7}$]   (+1, -0.25)

    a. 13 : 11

    b. 8 : 11

    c. 6 : 11

d. $3:7$

General English

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

   Make (something bad or unsatisfactory) better

   a. Judge

   b. Malign

   c. Castigate

   d. Ameliorate

---

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

   The <u>viewing for the </u>Mount Everest is clearer from here.

   a. view of an

   b. view of

   c. No improvement reuired

   d. viewing of a

---

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

   An immense crowd <u>had gather </u>to witness this ceremony.

   a. had gathering

b. gather

c. No improvement required

d. had gathered

---

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

When it comes to love of sports, he <u>takes off </u>his father.

a. takes from

b. takes by

c. takes after

d. No improvement required

---

55. Select the INCORRECTLY spelt word.   **(+1, −0.25)**

a. Bombastic

b. Arachic

c. Benign

d. Artless

---

56. 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)**

Businesses are asking employees to work from home.

a. employees to work

b. from home

c. Businesses are asking

d. No error

---

57. Select the most appropriate meaning of the underlined idiom in the given sentence. **(+1, -0.25)**

A child in an art museum is like <u>a bull in a China shop.</u>

a. A clumsy person in a delicate situation

b. A person who cries for everything

c. A talkative person

d. A person with no moral values

---

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

An afternoon performance in a theatre or cinema

a. Canvas

b. Premiere

c. Comedy

d. Matinee

---

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

An ability to find ways and directions

a. Navigate

b. Annotate

c. drive

d. operate

---

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

It was a long and dangerous journey in those unsettled days. The pilgrim had to face _ _ _ _ _ _ _ _ by land and sea.

a. safeties

b. respite

c. perils

d. exposure

---

61. Select the most appropriate synonym of the given word.   (+1, –0.25)

Hesitant

a. Diligent

b. Remote

c. Eager

d. Reluctant

---

62. 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)**

She didn't knew / that I was out / for some urgent work.

a. for some urgent work

b. No error

c. that I was out

d. She didn't knew

---

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

Many state governments <u>are facing a</u> financial crunch.

a. are facing an

b. is facing a

c. will facing a

d. No improvement required

---

64. 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 receive perhaps four / or five such requests during the / course of
a typical week.

a. or five such requests during the

b. No error

c. course of a typical week

d. I have receive perhaps four

---

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

Laconic

a. Verbose

b. Pithy

c. Brief

d. Terse

---

66. Select the most appropriate synonym of the given word.   (+1, –0.25)

Vanquish

a. Defeat

b. Acquit

c. Surrender

d. Flee

---

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

Overindulgence in anything may prove _ _ _ _ _ _ _ _ to health.

a. spurious

b. injurious

c. repetitive

d. commercial

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

The table was grased with a lovelly showpiece.

a. The table was grased with a lovvely showpiece.

b. The table was graced with a lovaly showpiece.

c. The table was graced with a lovely showpiece.

d. The table was graced with a lovelly showpiece.

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

The judges applauded me for my _ _ _ _ _ _ _ performance at the
competition.

a. usual

b. normal

c. outstanding

    d. large

---

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

Bury the hatchet

    a. To change the plans

    b. To make secret preparations to attack

    c. To settle disputes

    d. To hide something controversial

---

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)**

Love is often thought to be the highest and most fulfilling emotion that men and women can (1)_____. But it is also thought of in (2)_____ to the various instincts in man. Therefore, we must (3)_____ from the mystical point of view that love is the highest emotion of man and the one emotion that relates man to God. Love on every plane and level of life is an expression of God's will, working and expressing itself in man's consciousness. To express love on any level is good, but to express it as adoration of God is the (4)_____ form of love and brings man into the greatest (5)_____ with his inner self.

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

    a. condemn

    b. express

    c. attack

d. condone

---

72. **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.

Love is often thought to be the highest and most fulfilling emotion that
men and women can (1)_____. But it is also thought of in
(2)_____ to the various instincts in man. Therefore, we must
(3)_____ from the mystical point of view that love is the highest
emotion of man and the one emotion that relates man to God. Love on
every plane and level of life is an expression of God's will, working and
expressing itself in man's consciousness. To express love on any level is
good, but to express it as adoration of God is the (4)_____ form of
love and brings man into the greatest (5)_____ with his inner self.

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

a. mention

b. inspection

c. position

d. relation

---

73. **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.

Love is often thought to be the highest and most fulfilling emotion that
men and women can (1)_____. But it is also thought of in
(2)_____ to the various instincts in man. Therefore, we must
(3)_____ from the mystical point of view that love is the highest
emotion of man and the one emotion that relates man to God. Love on

every plane and level of life is an expression of God's will, working and expressing itself in man's consciousness. To express love on any level is good, but to express it as adoration of God is the (4)_____ form of love and brings man into the greatest (5)_____ with his inner self.

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

a. realise

b. comprehends

c. acknowledges

d. contrast

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)

Love is often thought to be the highest and most fulfilling emotion that men and women can (1)_____. But it is also thought of in (2)_____ to the various instincts in man. Therefore, we must (3)_____ from the mystical point of view that love is the highest emotion of man and the one emotion that relates man to God. Love on every plane and level of life is an expression of God's will, working and expressing itself in man's consciousness. To express love on any level is good, but to express it as adoration of God is the (4)_____ form of love and brings man into the greatest (5)_____ with his inner self.

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

a. smallest

b. latest

c. highest

d. largest

---

75. **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)

Love is often thought to be the highest and most fulfilling emotion that men and women can (1)_____. But it is also thought of in (2)_____ to the various instincts in man. Therefore, we must (3)_____ from the mystical point of view that love is the highest emotion of man and the one emotion that relates man to God. Love on every plane and level of life is an expression of God's will, working and expressing itself in man's consciousness. To express love on any level is good, but to express it as adoration of God is the (4)_____ form of love and brings man into the greatest (5)_____ with his inner self.

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

   a. suffering

   b. harmony

   c. menace

   d. loathing

General Awareness

76. As per Sample Registration System's 2018 report, what percentage of India's population comes under working age? **(+1, -0.25)**

    a. 74%

    b. 44%

    c. 85%

    d. 66%

---

77. The moon moves around the earth in about _____. **(+1, -0.25)**

    a. 30 days

    b. 24 days

    c. 27 days

    d. 29 days

---

78. Which lake of India is the result of tectonic activity? **(+1, -0.25)**

    a. Dal lake

    b. Barapani lake

    c. Loktak lake

    d. Wular lake

---

79. Jhaveri Sisters are famous for which form of classical dance? **(+1, -0.25)**

a. Manipuri

b. Mohiniyattam

c. Kuchipudi

d. Odissi

---

80. What is the atomic number of sulphur?   (+1, −0.25)

a. 15

b. 14

c. 16

d. 18

---

81. Article 51 of the Indian Constitution is about _____.   (+1, −0.25)

a. uniform civil code for the citizens

b. organisation of agriculture and animal husbandry

c. promotion of international peace and security

d. separation of judiciary from executive

---

82. Dhamek stupa is one of the most prominent Buddhist structures in India.   (+1, −0.25)
It is situated in the _____ district of Uttar Pradesh.

a. Jaunpur

b. Agra

c. Varanasi

d. Mirzapur

---

83. Which chapter of the Constitution of India discusses the articles of Parliament?   (+1, -0.25)

   a. Chapter III

   b. Chapter I

   c. Chapter II

   d. Chapter IV

---

84. 'Unfinished' is a memoir of the famous Indian actress _____.   (+1, -0.25)

   a. Vidya Balan

   b. Kangana Ranaut

   c. Sridevi

   d. Priyanka Chopra Jonas

---

85. With respect to value addition in the textile industry, knitting is followed by which procedure?   (+1, -0.25)

   a. Garment manufacture

   b. Spinning

   c. Fibre production

d. Dyeing and finishing

---

86. In which state of India is Nuakhai festival celebrated?   (+1, -0.25)

   a. Bihar

   b. Assam

   c. Odisha

   d. Tamil Nadu

---

87. Which scientist first coined the term, Ecosystem/Ecological System?   (+1, -0.25)

   a. Frederic Edward Clements

   b. Eugene Odum

   c. Charles Sutherland Elton

   d. Arthur Tansley

---

88. According to Article 112 of the Constitution of India, the Union Budget of a year is called _____.   (+1, -0.25)

   a. Annual Budget Statement

   b. Fiscal Budget

   c. Annual Financial Statement

   d. Assessment Statement

---

89. In which of the following events did India NOT win any medal at the Summer Olympics 2020 (played in 2021)?

(+1, -0.25)

   a. Men's hockey

   b. Women's singles badminton

   c. Men's javelin throw

   d. Women's hockey

90. Which of the following dynasties ruled over Delhi just after the Sayyid dynasty?

(+1, -0.25)

   a. Rajput dynasty

   b. Tughluq dynasty

   c. Khalji dynasty

   d. Lodi dynasty

91. Which Indian state government launched a cleanliness drive called Project CLAP?

(+1, -0.25)

   a. Uttar Pradesh

   b. Andhra Pradesh

   c. Rajasthan

   d. Madhya Pradesh

92. Padma Shri awardee, Gaddam Padmaja Reddy was associated with which classical dance of India?   (+1, -0.25)

    a. Kuchipudi

    b. Manipuri

    c. Sattriya

    d. Kathak

---

93. The first English factory was set up on the banks of the river Hugli in _____.   (+1, -0.25)

    a. 1645

    b. 1651

    c. 1648

    d. 1640

---

94. Who will be India's Chief G20 Coordinator from May 2022?   (+1, -0.25)

    a. Harsh Vardhan Shringla

    b. Rajiv Gauba

    c. Shashi Tharoor

    d. Ajit Doval

95. How many number of players are permitted to be substituted in a game of field hockey?　　(+1, -0.25)

    a. No limit

    b. 3

    c. 10

    d. 5

96. The process of seepage of water into the land is called _ _ _ _ _ _ _.　　(+1, -0.25)

    a. infiltration

    b. depletion

    c. storage

    d. replenishment

97. Which of the following titles was held by Samudragupta, a ruler of the Gupta Dynasty?　　(+1, -0.25)

    a. Jahan Panah

    b. Sahib-e-Qiran

    c. Kaviraja

    d. Mahendraitya

98. Who was the founder of Brahmo Samaj in 1828, at Calcutta?　　(+1, -0.25)

a. Ram Singh

b. HN Kunzru

c. Swami Dayanand Saraswati

d. Raja Ram Mohan Roy

---

99. What is the capital of India's neighbouring country Afghanistan?　　(+1, -0.25)

a. Karachi

b. Kabul

c. Kandahar

d. Kathmandu

---

100. Pandit Ravi Shankar is associated with _____ musical instrument.　　(+1, -0.25)
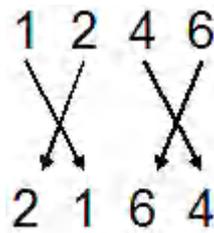
a. sitar

b. violin

c. flute

d. guitar

Answers

1. Answer: b

Explanation:

The pattern followed in the given series is:

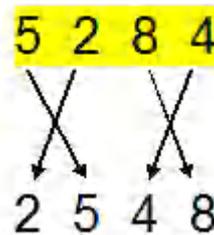**First and second digits are interchanged & third and fourth digits are interchanged.**

1246 becomes 2164

3482 becomes 4328
Similarly,

2548 is obtained from 5284

Hence, the correct answer is option 2.

2. Answer: d

Explanation:

Given:
4 + 8 ÷ 4 × 2 – 2 = ?

Explanation:
'+' and '×' are interchanged and '–' and '÷' are interchanged

By using BODMAS rule:

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

4 × 8 – 4 +**2 ÷ 2**= ?
4 × 8– 4 + 1 = ?
32– 4**+ 1**= ?
33 – 4= Answer
29 = Answer

Hence,the correct answer is option 4.

3. Answer: d

Explanation:

Given:

Alphabet	Denotation
A	+
B	−
C	×
D	÷

50 A 40 B 10 C 12 D 2 = ?

Explanation:

Now we substitute the values and solve the equation using BODMAS rule:

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

50 + 40 – 10 ×12÷2= ?
50 + 40 – 10 × 6= ?
50 + 40– 60 = ?
90 – 60= Answer
30 = Answer

Hence,Required value is 30.

4. Answer: a

Explanation:

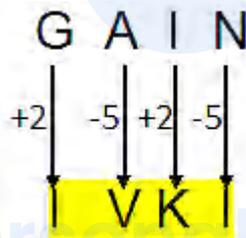According to the English alphabet and their positional values:

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 in the given series is:

- Alphabets at odd place are increased to 2 positional values.
- Alphabets at even place are decreased to 5 positional values.
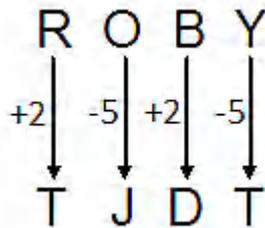
ROBY becomes TJDT
 Similarly,

GAIN becomes IVKI

Hence, the correct answer is option 1)

---

5. **Answer: c**

   Explanation:
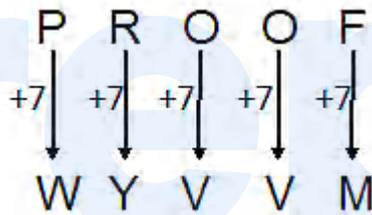
   According to the English alphabets and their positional values:

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 in the given series is:

There is a difference of 7 positional values between the alphabet and its code:
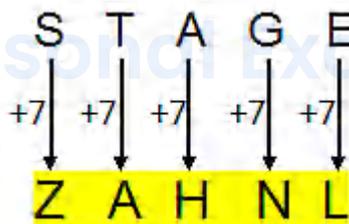

LOCAL becomes SVJHS

PROOF becomes WYVVM

Similarly,

STAGE becomes ZAHNL

Hence, the correct answer is option 3.

---

6. **Answer: b**

Explanation:

Given information:

Grapes is called Grass, Grass is called Jasmine, Jasmine is called Jaggery, Jaggery is called Melon, and Melon is called Guava.

Out of Grass, Jasmine, Jaggery, Melon and Guava, only jaggery is man-made and rest are naturally grown.

Here **jaggery is called Melon.**

Therefore **Jaggery -- Melon**

Hence,the correct answer is option2.

---

7. **Answer: d**

Explanation:

According to the English alphabets and their positional values:

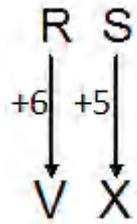| Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed in the given series is:
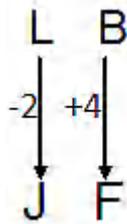**There is a difference of 4 positional values between the alphabet and its code.**

$$A \xrightarrow{+4} E \qquad M \xrightarrow{+4} Q$$
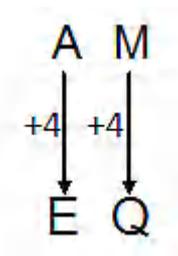
Now we compare each option with this pattern:
Option 1)

R S
+6| +5|
↓ ↓
V X

Pattern does not match.

Option 2)

L B
-2| +4|
↓ ↓
J F

Pattern does not match.

Option 3)

G H
+1| -3|
↓ ↓
K E
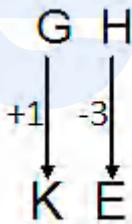
Pattern does not match.
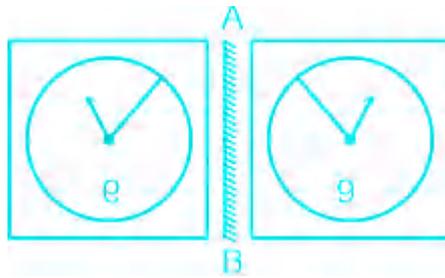
Option 4)

P T
+4| +4|
↓ ↓
T X
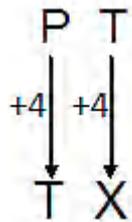
Pattern matches with the given cluster.

Hence, the correct answer is option 4.

8. **Answer: c**

Explanation:

The mirror image of the given figure is:

Now we compare the mirror image with the given options:
Option 1)
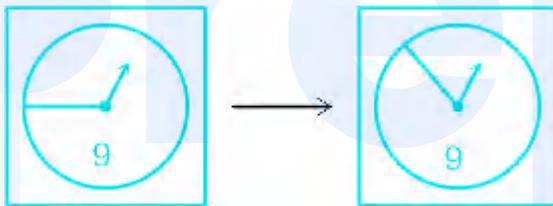
The direction of the line is different in this option.
Option 2)
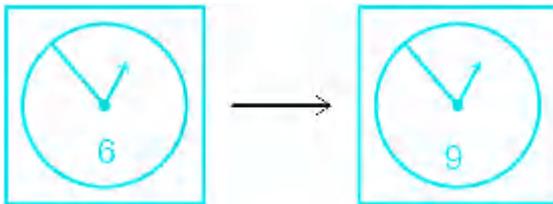
The number is changed in this option.
Option 3)
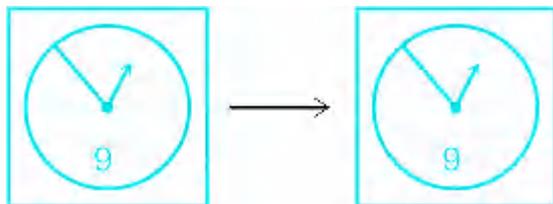
The image completely matches with the option.
Option 4)
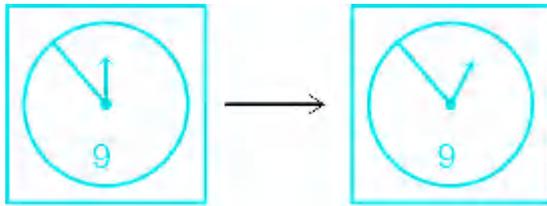
The direction of the line is different in this option.

Hence,the correct answer is option 3.

---

9. Answer: d

Explanation:

Step 1: A is an immediate neighbour of H and G. A is sitting at a corner.
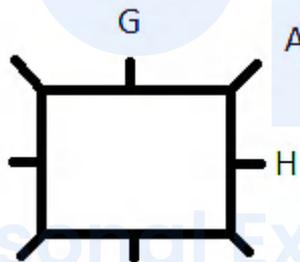
We place A at one corner and then place G and H to it's immediate spots.
Step 2: G is third to the right of D.
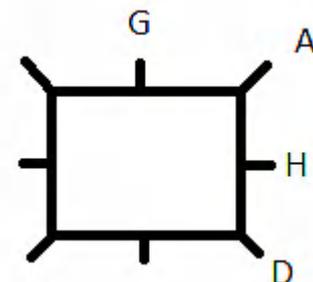
Now we place D to the third left of G.

Step 3: B is an immediate neighbour of D and C
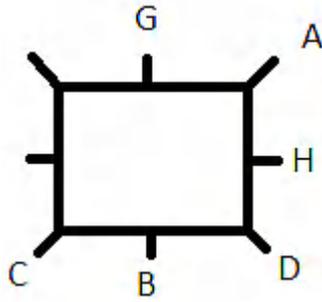
Here we place B next to D and then C next to B.

Step 4: E is an immediate neighbour of C and F.
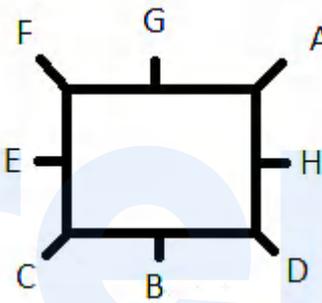
Lastly we place E next to C and F next to E.

With the help of this diagram, we check the relation between given options:

Option 1) EB : There is only one person between them.

Option 2) BH : There is only one person between them.

Option 3) AF : There is only one person between them.

Option 4) GC : There is two people between them.

Thus **GC is the odd pair.**

Hence,the correct answer is option 4)

---

10. **Answer: d**

Explanation:

The pattern followed in the given series is:

The difference is followed by consecutive prime number series.

As 215 will come in place of 225 so option 4 is the correct answer.

Hence, the correct answer is option 4.

---

11. Answer: b

Explanation:

Step 1: J is not sitting with M who sits on the right end of the bench

We place M at right end and J is not placed in this step because of lack of information.
Step 2: J sits to the right of L and N
Step 3: J is immediate neighbour of K.

Out of four spots J cannot be placed next to M and there are 2 people at J's left so the only spot left is 3 rd .Also K is placed at right of J because L and N are on J's left.
Step 4: L sits to the right of N.

We place N and place L to it's right.

From the final diagram, we can see that **L is placed second from the left.**

Hence,the correct answer is option 2.

---

12. **Answer: b**

Explanation:

The pattern in the given series is:

The difference between the terms is consecutive multiple of 4.
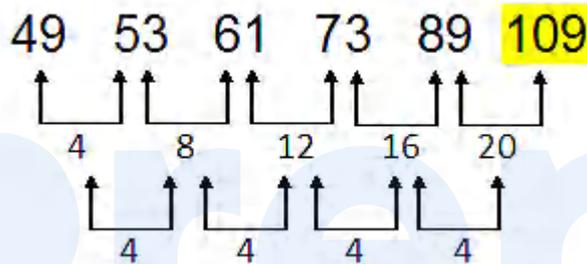
Hence,the correct answer is option 2.

---

13. **Answer: d**

Explanation:

According to the English alphabets and their positional values:

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 in the given series is:

- **First and second letters are decreased to 2 positional values than the previous cluster.**

- **Third and fourth** letters are increased to 2 positional values than the previous cluster.

```
Y   Z   C   D
-2  -2  +2  +2
↓   ↓   ↓   ↓
W   X   E   F
-2  -2  +2  +2
↓   ↓   ↓   ↓
U   V   G   H
-2  -2  +2  +2
↓   ↓   ↓   ↓
S   T   I   J
-2  -2  +2  +2
↓   ↓   ↓   ↓
Q   R   K   L
```
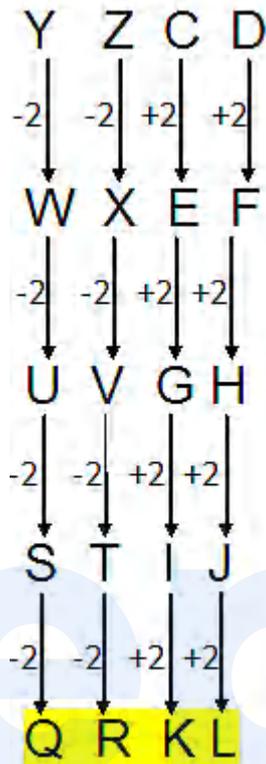
Hence, the correct answer is option 4.

---

14. **Answer: d**

Explanation:

From the given information:
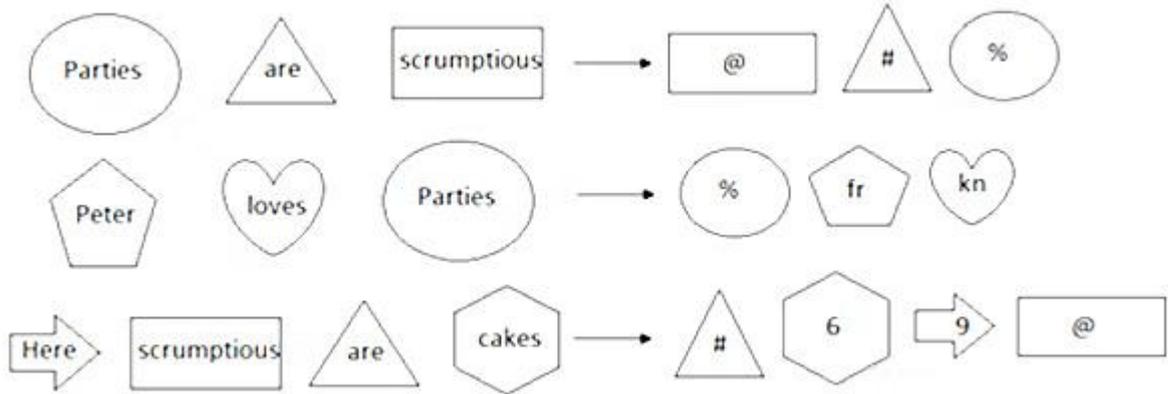
We want the code for 'Here parties':
From the diagram we can see,

- Parties is coded as %
- Here is coded as 9

So 'Here parties' will be '9 %' but the pattern suggests code for first word comes last. Therefore % 9 is the right order.

Hence, the correct answer is option 4.

---

15. **Answer: c**

Explanation:

The pattern in the given set is:
Difference between 1st and 2nd term × 2 = Difference between 2nd and 3rd term

Let's apply:
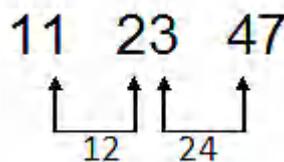
12 × 2 = 24

Now we compare the pattern with the given options:

Option 1) (17, 35, 69)
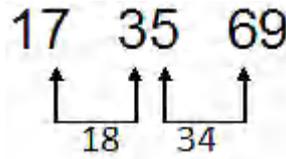
$18 \times 2 = 36$; $34 \neq 36$

Option 2) (13, 27, 54)
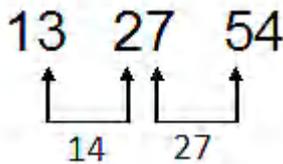
$14 \times 2 = 28$; $27 \neq 28$

Option 3) (19, 39, 79)
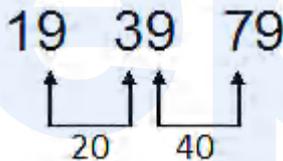
$20 \times 2 = 40$; $40 = 40$

Option 4) (23, 46, 93)
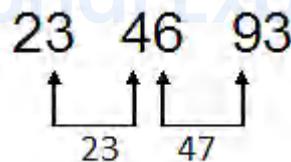
$23 \times 2 = 46$; $46 \neq 47$

Only option 3) matches the pattern of the given set.

Hence,the correct answer is option 3.

---

16. **Answer: a**

Explanation:

We compare each option with the given figure:

No.	Option	Question	Answer
1.			Embedded
2.			Not Embedded
3.			Not Embedded
4.			Not Embedded
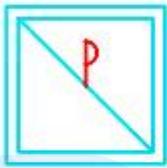
Only option 1) has the given figure embedded in it.

Hence, the correct answer is option 1.

---

17. Answer: d

Explanation:

According to the given statements, the Venn diagram is:
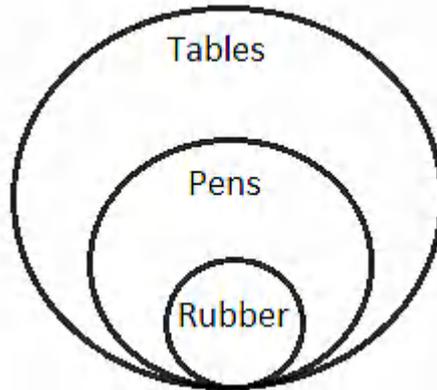
I. All pen are rubber: All rubbers are pens but some pens are tables too, therefore not all pen are rubber. So conclusion doesn't follow.

II. All table are pen: Some tables are pen and some tables are rubber too, and some tables are not both of them, thus not all tables are pen. So conclusion don't follow.

III. No rubber is table: All rubbers are pen and all pens are tables, therefore all rubbers are table. So the conclusion doesn't follow.

Since all three conclusions don't follow.

Hence, the correct answer is option 4.

---

18. **Answer: a**

Explanation:

The mirror image of the given figure is:
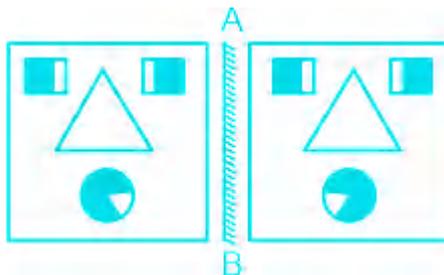
Now we compare each option with the mirror image:
Option 1)
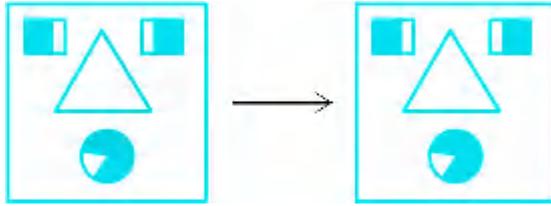
The figure matches completely with the mirror image.

Option 2)
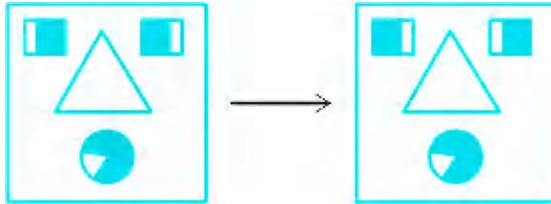
The shades in the squares are in opposite directions.

Option 3)
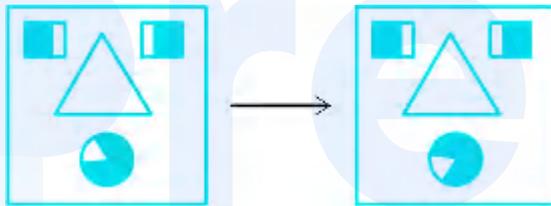
The white region in the circle is different in this option.

Option 4)
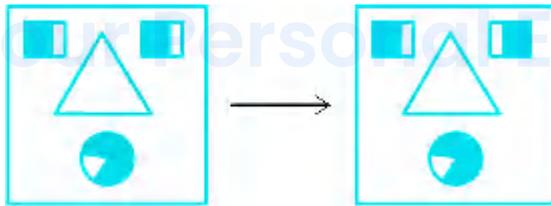
The shades in the squares are in opposite directions.

Hence,the correct answer is option 1.

---

19. **Answer: a**

Explanation:

According to the given diagram, we can see that at each step one ring is combined with existing group and in the last step, all rings will combine together such that each ring is connected with two neighboring rings.

So the last step will be:
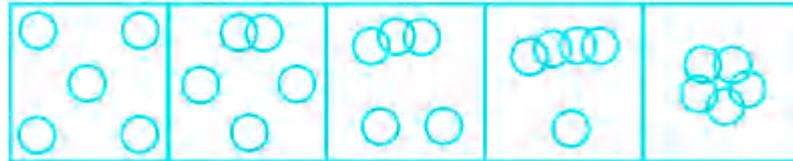
Now we compare each option with the last step obtained:
Option 1)

The figure matches completely with the option.
Option 2)
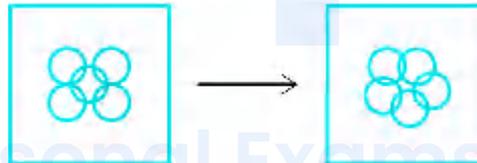
The central ring is connected with more than two rings. It is incorrect pattern.
Option 3)
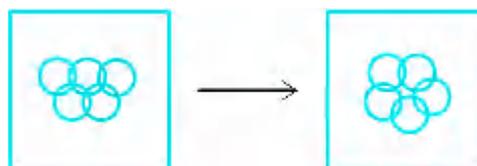
The rings are connected with more than two rings. It is incorrect pattern.
Option 4)
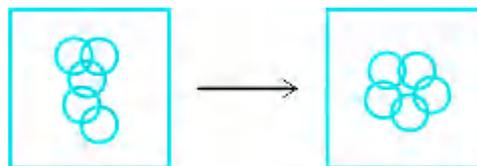
The rings are connected with more than two rings. It is incorrect pattern.

Hencethe correct answer is option 1.

---

20. **Answer: a**

Explanation:

Explanation:

Step 1: The price of M7 is more than M5 and less than M4.

$$M4 > M7 > M5$$

Step 2: The price of M1 is more than M6 and less than M2.

$$M2 > M1 > M6$$

Step 3: The price of M2 is less than the price of M5.

$$M5 > M2$$

Here we can relate steps 1 and 2, we get:

$$M4 > M7 > M5 > M2 > M1 > M6$$

Only mobile left is M3 and according to the condition:
If the price of M4 is less than only one mobile,

$$M3 > M4$$

So the final order is:

$$M3 > M4 > M7 > M5 > M2 > M1 > M6$$

Hence, the correct answer is option 1.

---

21. Answer: a

Explanation:
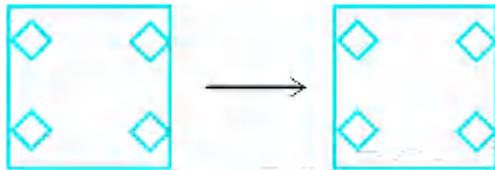
We unfold the paper step by step:
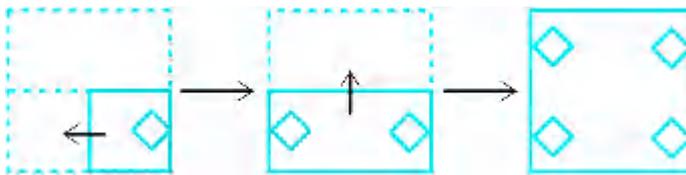
Now we compare each option with the final step:
Option 1)

The pattern in the option matches completely.

Option 2)
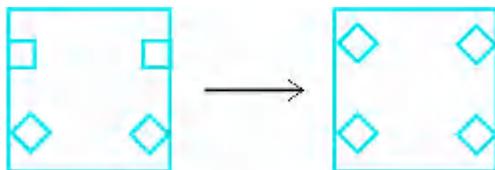
The shape of the figure is not correct.

Option 3)
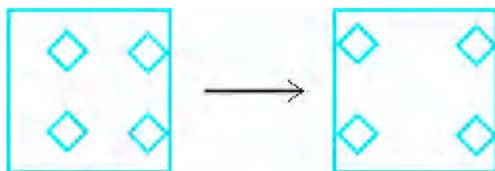
Pattern in this option is correct but the alignment is incorrect.

Option 4)
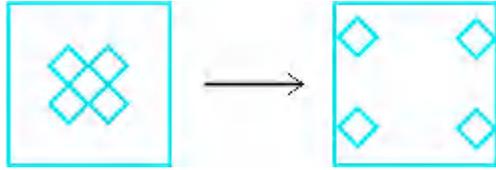
The pattern is different in this option.

Hence, the correct answer is option 1.

---

22. Answer: d

Explanation:

From the given statements, the Venn diagram is:
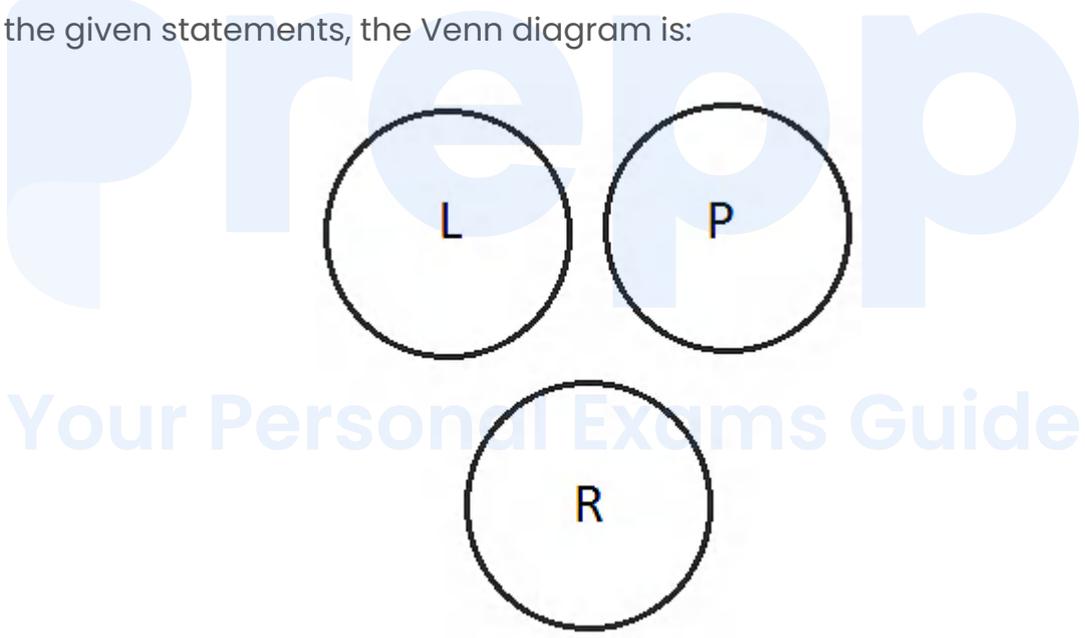
I. Some R are not P: There is no relation given between R and P, therefore there is no evidence of some R are not P. Thus the conclusion does not follow.

II. Some R are not L: All R are not L and it is safe to say that some R are not L which makes this conclusion true. So the conclusion follows.

Only conclusion II follows.

Hence, the correct answer is option 4.

23. Answer: d

Explanation:

According to the English alphabet and their positional values:

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 by the given series is:

- **Alphabets at odd places are increased to 2 positional values.**
- Alphabets at even places are decreased to 2 positional values.

$$D \quad E \quad T \quad E \quad C \quad T$$
$$+2 \quad -2 \quad +2 \quad -2 \quad +2 \quad -2$$
$$F \quad C \quad V \quad C \quad E \quad R$$
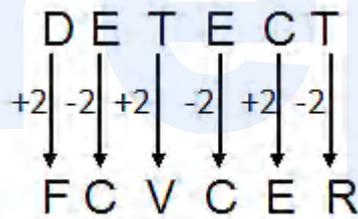
DETECT becomes FCVCER

$$H \quad E \quad I \quad G \quad H \quad T$$
$$+2 \quad -2 \quad +2 \quad -2 \quad +2 \quad -2$$
$$J \quad C \quad K \quad E \quad J \quad R$$
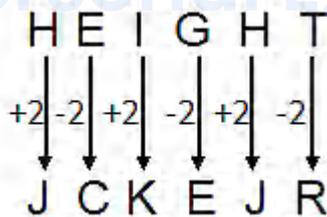
HEIGHT becomes JCKEJR
Similarly,

$$M \quad O \quad T \quad H \quad E \quad R$$
$$+2 \quad -2 \quad +2 \quad -2 \quad +2 \quad -2$$
$$O \quad M \quad V \quad F \quad G \quad P$$

MOTHER becomes OMVFGP

Hence,the correct answer is option 4.

---

24. **Answer: d**

Explanation:

The pattern followed in the given series is:

- S moves in clockwise direction maintaining space with M.
- T moves in clockwise direction behind S.
- M moves in clockwise direction maintaining space with S.
- N moves in clockwise direction ahead of M.
- At each step a new alphabet is added.

The next step will be
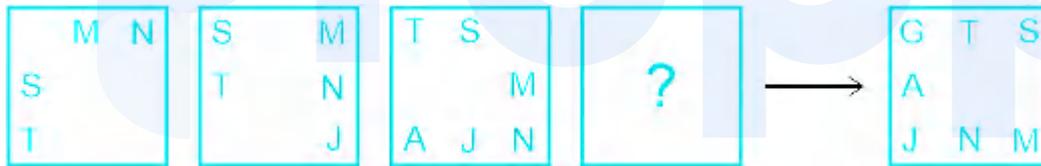
Now we compare the pattern with the given options:
Option 1)
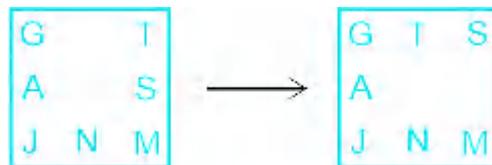
The pattern does not match. This option is incorrect.
Option 2)
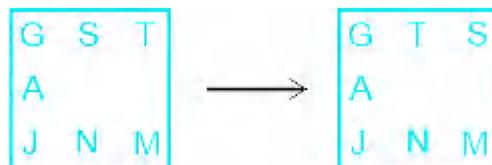
The pattern does not match. This option is incorrect.

Option 3)
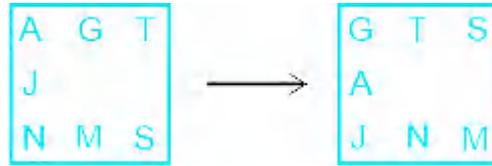
The pattern does not match. This option is incorrect.

Option 4)

The pattern matches completely.

Hence,the correct answer is option 4.

---

25. **Answer: a**

Explanation:

According to the English alphabet and their positional values:

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 in the given series is:

Alphabetsare increased to 2 positional values.
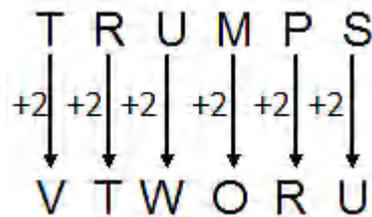
TRUMPS becomes VTWORU
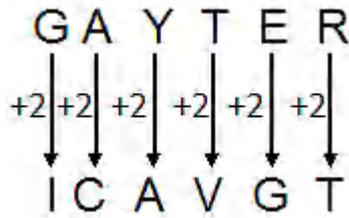
GAYTER becomes ICAVGT

Similarly,

HEINAP becomes JGKPCR

Hence, the correct answer is option 1.

---

26. **Answer: d**

Explanation:

Given:

Successive increase in Z = $11\frac{1}{9}$ % and 10%

R = 165

Calculation:

Let the value of Z be x.

After first increase of $11\frac{1}{9}$ %,

Value of Z = x + $11\frac{1}{9}$ % of x

Value of Z = $x + \frac{\frac{100}{9}}{100} \times x = x + \frac{x}{9} = \frac{10x}{9}$

Again increase of 10%,

Value of Z = $\frac{10x}{9} + \frac{10}{100} \times \frac{10x}{9} = \frac{10x}{9} + \frac{x}{9} = \frac{11x}{9}$

According to the question,

$\Rightarrow \frac{11x}{9} = 165$

$\Rightarrow x = \frac{165 \times 9}{11} = 135$

Hence, the value of Z is 135.

---

27. Answer: c

Explanation:

Given:

Time taken by the car to move 20 m = 3 minutes

Speed of the car for next 50 km = 100 km/h

Concept Used:

Speed = Distance ÷ Time

Calculation:

Firstly, we will change m into km and minutes into hours.

$\Rightarrow$ 20 m = $\frac{20}{1000} = 0.02$ km

$\Rightarrow$ 3 minutes = $\frac{3}{60} = 0.05$ hours

Time taken by the car for remaining 50 km = $\frac{50}{100} = 0.5$ hour

Average Speed of the car = $\frac{50+0.02}{0.5+0.05} = \frac{50.02}{0.55} = 90.94$ km/h

Now, to convert the average speed from km/h to m/s, multiply by $\frac{5}{18}$

$\Rightarrow$ 90.94 km/h = $90.94 \times \frac{5}{18} = 5.05 \times 5 = 25.26$ m/s

Hence, the approximate average speed of the car is 25.26 m/s.

28. **Answer: d**

Explanation:

Given:

Sum of diagonals of rhombus = L

Perimeter of rhombus = 4P

Concept Used:

Perimeter of Rhombus = $2\sqrt{(Diagonal1)^2 + (Diagonal2)^2}$

Area of Rhombus = $\frac{1}{2} \times$ Product of Diagonals

Calculation:

Let the diagonals of the rhombus be d_1 and d_2

Perimeter of Rhombus = 4P

$\Rightarrow (4P)^2 = 4(d_1^2 + d_2^2)$

$\Rightarrow d_1^2 + d_2^2 = \frac{16P^2}{4} = 4P^2$

As given,

Sum of diagonal, $d_1 + d_2 = L$

Squaring both sides,

$\Rightarrow (d_1 + d_2)^2 = L^2$

$\Rightarrow d_1^2 + d_2^2 + 2d_1d_2 = L^2$

$\Rightarrow 2d_1d_2 = L^2 - 4P^2$

$\Rightarrow$ d$_1$d$_2$ = $\frac{L^2 - 4P^2}{2}$

So, the Area of Rhombus = $\frac{1}{2} \times \left(\frac{L^2}{2} - 2P^2 \right)$ = $\frac{L^2}{4} - P^2$ = $\frac{1}{4} \left(L^2 - 4P^2 \right)$

Hence, the area of a rhombus is $\frac{1}{4} \left(L^2 - 4P^2 \right)$.

---

29. Answer: d

Explanation:

Given:

P = 7 × 4 – 3

Q = 8 ÷ 4 + 2

R = 14 ÷ 21 × 9

Concept Used:

BODMAS = Bracket, Of, Division, Multiplication, Addition, Subtraction

Calculation:

We have to find, P × Q + R

$\Rightarrow$ P × Q + R = $(7 \times 4 - 3) \times (8 \div 4 + 2) + (14 \div 21 \times 9)$

$\Rightarrow (28 - 3)$ × $(2 + 2)$ + $\left(\frac{14}{21} \times 9 \right)$

$\Rightarrow$ 25 × 4 + 6 = 100 + 6 = 106

Hence, the value of P × Q + R is 106.

---

30. Answer: b

Explanation:

Given:

Two distinct prime numbers = A1 and A2

Calculation:

Let the two distinct prime numbers be 3 and 7

So, Factors of 3 = 1 × 3

Factors of 7 = 1 × 7

The highest common factor of 3 and 7 = 1

Hence, the highest common factor of A1 and A2 is 1.

---

31. **Answer: c**

Explanation:

Given:

CITY	POPULATION	ABOVE 60	M : F (BELOW 60 YEARS)
P	45%	30%	3 : 7
Q	30%	70%	3 : 1
R	25%	40%	12 : 13

Total population of all three cities = 3,00,000

Concept Used:

Basic Percentage Calculation

Calculation:

Population percentage of city R = 25%

Population of city R = 25% of 300000

Population of city R = $\frac{25}{100} \times 300000 = 75000$

Population above 60 years = $\frac{40}{100} \times 75000 = 30000$

Population of below 60 years = 75000 − 30000 = 45000

Now, let the number of males be 12x and the number of females be 13x.

So, 12x + 13x = 45000

⇒ 25x = 45000

⇒ x = $\frac{45000}{25} = 1800$

Then, the male population of city R for below 60 years = 12x = 12 × 1800 = 21,600

Hence, the male population in the city R for the age below 60 years is 21,600.

---

32. **Answer: b**

Explanation:

Given:

Present ages ratio of Vishal and Shekhar = 14 : 17

Ratio of ages after six years = 17 : 20

Calculation:

Let the present age of Vishal be 14x and Shekhar be 17x.

After six years,

Age of Vishal = 14x + 6

Age of Shekhar = 17x + 6

According to the question,

$\Rightarrow \frac{14x+6}{17x+6} = \frac{17}{20}$

$\Rightarrow$ 20 × (14x + 6) = 17 × (17x + 6)

$\Rightarrow$ 280x + 120 = 289x + 102

$\Rightarrow$ 289x − 280x = 120 − 102

$\Rightarrow$ 9x = 18

$\Rightarrow$ x = $\frac{18}{9}$ = 2

So, shekhar's present age = 17x = 17 × 2 = 34 years

Hence, the present age of Shekhar is 34 years.

---

33. **Answer: b**

Explanation:

Given:

Bill amount = Rs 10,00,000

Discount = 35%

Successive discounts = 30% and 5%

Concept Used:

Amount = Bill Amount − Discount

Calculation:

Amount after single discount = 1000000 − 35% of 1000000

Amount after single discount = $1000000 − \frac{35}{100} \times 1000000 = 1000000 − 350000 = 6,50,000$ Rs

Amount after successive discount of 30% = 1000000 − 30% of 1000000

Amount after successive discount of 30% = $1000000 - \frac{30}{100} \times 1000000 = 7,00,000$ Rs

Amount after a second successive discount of 5% = 700000 − 5% of 700000

Amount after a second successive discount of 5% = $700000 - \frac{5}{100} \times 700000 = 6,65,000$ Rs

Difference between single and successive discounts = 665000 − 650000 = Rs 15,000

Hence, the difference between a single discount and successive discount is of Rs 15,000

⭐ **Alternate Method**

Concept used:

When two successive discounts X% and Y% are given,

Equivalent discount = (X + Y − XY/100)%

Calculation:

Amount after single discount of 35% = 1000000 − $\frac{35}{100}$ × 1000000

= 1000000 − 350000

= Rs.650,000

Equivalent discount of two successive discount of 30% and 5% −

= [30 + 5 − (30 × 5)/100]

= 33.5%

Amount after equivalent discount = 1000000(1 − 33.5/100)

= 1000000 × 0.665

= Rs.665,000

∴ Difference between them = 665,000 - 650000 = Rs.15000

∴ **Required difference is Rs.15000.**

---

34. **Answer: d**

Explanation:

Given:
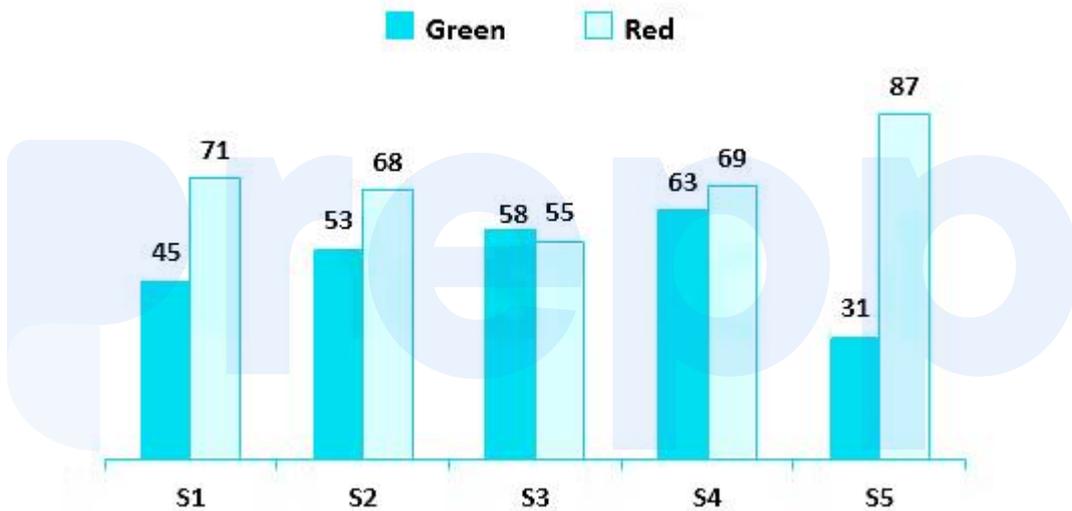
Calculation:

Total number of Green bottles by 5 shops = 45 + 53 + 58 + 63 + 31

Total number of Green bottles by 5 shops = 250

Total number of Red bottles by 5 shops = 71 + 68 + 55 + 69 + 87

Total number of Red bottles by 5 shops = 350

Ratio of total Green bottles to Red bottles = $\frac{250}{350} = \frac{5}{7} = 5:7$

Hence, the ratio of the total number of green bottles to the red bottles is 5 : 7.

---

35. **Answer: d**

Explanation:

Given:

Profit earned when the painting sold at ₹1200 = 15 times the loss incurred when sold at ₹240

Concept Used:

Cost Price = SP + Loss

Selling Price = $\frac{100 + Profit\%}{100} \times CP$

Calculation:

Let the loss incurred when sold at ₹240 be ₹x.

So, Cost Price = 240 + x

Profit made when the painting sold at ₹1200 = 15x

Cost Price = 1200 − 15x

Then, 240 + x = 1200 − 15x

⇒ x + 15x = 1200 − 240 = 960

⇒ 16x = 960

⇒ x = 960 ÷ 16 = 60

Cost Price of painting = 240 + x = 240 + 60 = Rs.300

To make a profit of 40%,

Selling Price of the painting = $\frac{100 + 40}{100} \times 300 = \frac{140}{100} \times 300$ = ₹420

Hence, the painting should be sold at ₹420 to make the profit of 40%.

36. Answer: c

Explanation:

Given:

Number of days in which 10 horses can graze a field = 14 days

Number of days in which 10 sheep can graze a field = 28 days

Concept Used:

Efficiency = Work Done ÷ Total Time Taken

Calculation:

Number of days taken by 5 horses to graze a field = 14 × 2 = 28 days

According to the question,

⇒ 10 sheep can graze a field in = 28 days

So, 5 horses = 10 sheep

Capacity of 1 horse = $\frac{10}{5}$ = 2 sheep

Total time taken by 5 horses and 10 sheep to graze a field means,

⇒ 5 horses = 10 sheep

Total = 10 + 10 = 20 sheep

Therefore, total time taken by 20 sheep to graze a field = $28 \times \frac{10}{20}$ = 14 days

Hence, 5 horses and 10 sheep can graze the field in 14 days.

37. Answer: d

Explanation:

Given:
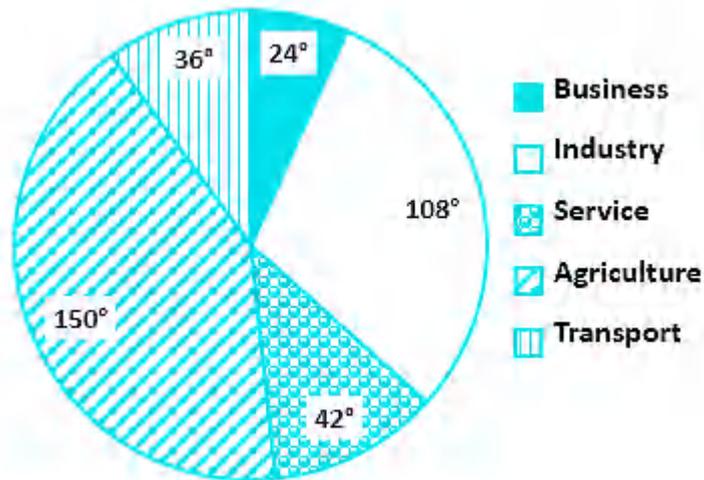
Total number of employees = 5,00,040

Calculation:

Total share for all sectors = 36 + 24 + 108 + 42 + 150 = 360

Degree for service sector = 42

Number of people working in the service sector = $\frac{42}{360} \times 500040$ = 58,338

Degree for business sector = 24

Number of people working in the business sector = $\frac{24}{360} \times 500040$ = 33,336

Difference in the number of people in both of these sectors = 58,338 − 33,336 = 25,002

Hence, there are 25,002 more people working in the service sector compared to the business sector.

---

38. **Answer: d**

Explanation:

Given:

Length of cuboidal room = 80 m

Breadth of cuboidal room = 70 m

Height of cuboidal room = 80 m

Cost of painting per square meter = 50 paise

Concept Used:

Area of four walls of cuboid = 2 × (Length + Breadth) × Height

Calculation:

Area of four walls of cuboid = 2 × (80 + 70) × 80 m^2

Area of four walls of cuboid = 2 × 150 × 80 = 24000 m^2

Total cost of painting four walls of room = ₹$\left(24000 \times \frac{50}{100} \right)$

Total cost of painting four walls of room = ₹12,000

Hence, the total cost of painting for the four walls of cuboidal room is ₹12,000.

---

39. **Answer: d**

Explanation:

Given:

Present population = 14580

Increase in population every year = 8%

Calculation:

Let the population of town 2 years ago be x.

After the firs

t-year increase,

Population after 1 year = x + 8% of x = x + $\frac{8}{100} \times x$

Population after 1 year = $x + \frac{2x}{25} = \frac{27x}{25}$

After the second-year increase,

Population after 2 years = $\frac{27x}{25} + \frac{8}{100} \times \frac{27x}{25} = \frac{27x}{25} + \frac{54x}{625}$

Population after 2 years = $\frac{675x + 54x}{625} = \frac{729x}{625}$

Now, According to the question,

$\Rightarrow \frac{729x}{625}$ = 14580

$\Rightarrow x = \frac{14580 \times 625}{729}$ = 20 × 625 = 12500

Hence, the population of the town 2 years ago was 12,500.

---

40. **Answer: b**

Explanation:

Given:

Cost price of a notebook = ₹120

Profit percentage = 40%

Concept Used:

Selling price = $\frac{100 + Profit\%}{100} \times CP$

Calculation:

Selling price of a notebook = $\frac{100+40}{100} \times 120$

Selling price of a notebook = $\frac{140}{100} \times 120$ = ₹168

Nominal profit made on the sale of each notebook = Selling Price − Cost Price

Nominal profit = 168 − 120 = ₹48

Hence, the nominal profit made on the sale of each notebook is ₹48

---

41. Answer: d

Explanation:

Given:

The speed of a motor-boat in still water and the speed of the current of water are in the ratio 20 : 4. To go a certain distance along the current the boat takes 4 hours.

Concept used:

Speed of boat along the current = speed of boat in still water + speed of current of water

Speed of boat against the current = speed of boat in still water - speed of current of water

Speed = Distance/Time

Calculations:

Let the Speed of boat in still water be 20x then speed of water current is 4x.

And let the certain distance covered be d.

Speed of boat along the stream

= 20x + 4x

= 24x km/h

Time taken = 4 hours

So, According to question,

Distance = speed × time

⇒ d = 24x × 4

= 96x km

Hence, the distance traveled is 96x km.

Speed of the boat against the stream

= 20x – 4x

= 16x km/h

Now, according to concept used:

Time = Distance/Speed

Time = 96x/16x = 6 hours

Hence, The Required time is 6 hours.

42. **Answer: d**

Explanation:

Given:

Speed of man = 22 km/h

Time is taken to travel = 3 minutes

Concept Used:

Speed = Distance/Time

Calculation:

Firstly, convert km/h into m/s by multiplying by $\frac{5}{18}$,

⇒ 22 km/h = $22 \times \frac{5}{18} = \frac{55}{9}$

Now, 3 minutes = 180 seconds

Distance travelled by man = $\frac{55}{9} \times 180 = 55 \times 20 = 1100$ metres

Hence, the distance travelled by the man is 1100 metres.

---

43. **Answer: a**

Explanation:

Given:

A is 25% less than B

B is 30% more than 120

Calculation:

Value of B = 120 + 30% of 120

Value of B = $120 + \frac{30}{100} \times 120$ = 120 + 36 = 156

Value of A = 156 − 25% of 156

Value of A = $156 - \frac{25}{100} \times 156$ = 156 − 39 = 117

Hence, the required value of A is 117.

---

44. **Answer: d**

Explanation:

Given:

Average weight of A, B, C, D = 33 kg

C is 12 kg lighter than A

B is 6 kg heavier than C

D is 10 kg less than that of C

Concept Used:

Average = Sum of values ÷ Number of values

Calculation:

Let the value of A be x kg.

Weight of C = x − 12 kg

Weight of B = x − 12 + 6 = x − 6 kg

Weight of D = x −12 − 10 = x − 22 kg

So, average of A, B, C and D = $\frac{x+x-12+x-6+x-22}{4} = \frac{4x-40}{4}$ = x −10

⇒ x − 10 = 33

⇒ x = 33 + 10 = 43 kg

Then, Weight of A = 43 kg

Weight of D = x −22 = 43 − 22 = 21 kg

Average weight of A and D = $\frac{43+21}{2} = \frac{64}{2}$ = 32 kg

Hence, the average weight of A and D is 32 kg.

45. **Answer: b**

Explanation:

Given:

Loan Amount = ₹12,000

Rate of Interest = 8% per annum

Time = 6 months

Concept Used:

Simple Interest = $\frac{P \times R \times T}{100}$

Calculation:

As given, Time = 6 months

Firstly, convert it into year, 6 months = $\frac{6}{12}$ = 0.5 years

Amount to be paid after six months = 12000 + $\frac{12000 \times 8 \times 0.5}{100}$

Amount to be paid after six months = 12000 + 480 = ₹12480

Hence, the amount to be paid after 6 months with interest is ₹12,480

46. **Answer: d**

Explanation:

Given:

Number of days taken by 22 boys to complete a work = 10 days

Number of days taken by 25 boys and 12 girls to complete the same work = 8 days

Calculation:

Let the one day work of 1 boy = x

Let the one day work of 1 girl = y

So, Total work done each day by 22 boys = 22x

$\Rightarrow 22x = \frac{1}{10}$

$\Rightarrow x = \frac{1}{10 \times 22} = \frac{1}{220}$

Now, According to the question for second condition,

$\Rightarrow 25x + 12y = \frac{1}{8}$

Putting the value of x, we get

$\Rightarrow 25 \times \frac{1}{220} + 12y = \frac{1}{8}$

$\Rightarrow 12y = \frac{1}{8} - \frac{5}{44}$

$\Rightarrow$ Taking LCM of the denominators,

$\Rightarrow 12y = \frac{44-40}{352} = \frac{4}{352} = \frac{1}{88}$

$\Rightarrow y = \frac{1}{88 \times 12}$

Number of days taken by 6 girls = 6y = $6 \times \frac{1}{88 \times 12} = \frac{1}{176}$ = 176 days

Hence, the number of days taken by 6 girls, working together, to complete the work is 176 days.

⭐ <u>Shortcut Trick</u>

Let the efficiency of a boy = B

The efficiency of a girl = G

Then

Total work = 22 × 10 × B = (25 × B + 12 × G) × 8

20 × B = 96 × G

B/G = 24/5

B = 24 and G = 5

So total work = 22 × 10 × 24

The efficiency of a girl = 5

So days required = 22 × 10 × 24/(5 × 6) = 22 × 8 = 176 days

---

47. **Answer: b**

Explanation:

Given:

$(9 2 × 27 + 3 2 × 7 + ?) \frac{1}{2} = 59$

Calculation:

$\Rightarrow (9 2 × 27 + 3 2 × 7 + ?) \frac{1}{2} = 59$

Squaring both sides,

$\Rightarrow 9 2 × 27 + 3 2 × 7 + ? = 59^2$

$\Rightarrow 81 × 27 + 9 × 7 + ? = 3481$

$\Rightarrow 2187 + 63 + ? = 3481$

$\Rightarrow ? = 3481 - 2250$

$= 1231$

Hence, the required value is 1231.

---

48. **Answer: a**

Explanation:

Given:

Ratio of three numbers = 1 : 2 : 3

Product of three numbers = 1296

Calculation:

Let the numbers be x, 2x and 3x.

Product of three numbers = x × 2x × 3x = $6x^3$

⇒ $6x^3$ = 1296

⇒ x^3 = $\frac{1296}{6} = 216$

⇒ x = 6

So, First number = x = 6

Second Number = 2x = 2 × 6 = 12

Third Number = 3x = 3 × 6 = 18

Sum of all numbers = 6 + 12 + 18 = 36

Hence, the sum of the three numbers is 36.

---

49. **Answer: b**

Explanation:

Given:

Average of set of b numbers = a

Average of set of a numbers = b

Concept Used:

Average = Total sum of values ÷ Number of values

Calculation:

Sum of set of b numbers = Average × Total values

Sum of set of b numbers = a × b = ab

Sum of set of a numbers = b × a = ba

Total Sum of all numbers = ab + ba = 2ab

Total values = a + b

Average of all numbers = $\frac{2ab}{a+b}$

Hence, the average of all the numbers taken together is 2ab ÷(a + b).

---

50. **Answer: c**

Explanation:

Given:

Area of Square = 1296 cm^2

Radius of circle = $\frac{7}{6}$ of the length of a side of the square

Concept Used:

Area of Square = Side^2

Perimeter of Square = 4 × Side

Circumference of Circle = $2\pi r$

Calculation:

Area of Square = Side^2 = 1296

Side = $\sqrt{1296}$ = 36 cm

Now, Radius of circle = $\frac{7}{6} \times 36$ = 42 cm

Perimeter of Square = 4 × Side

Perimeter of Square = 4 × 36 = 144 cm

Circumference of circle = $2\pi r$

Circumference of circle = $2 \times \frac{22}{7} \times 42 = 44 \times 6$ = 264 cm

Ratio of Perimeter and Circumference = $\frac{144}{264} = \frac{6}{11}$ = 6 : 11

Hence, the ratio of the perimeter of square and circumference of circle is 6 : 11.

51. Answer: d

Explanation:

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

⭐ Key Points

- In the given options, 'Ameliorate' is the word that can be used as a one-word substitute for the given group of words.
- We use the word ' **Ameliorate'** to mean - **make something better** .
  - **Example** - Some significant steps have been taken to *ameliorate* the situation caused by flood.
- Thus, the correct option is- *4) Ameliorate*.

⭐ Additional Information

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

- **Judge-** to express **an opinion about someone** or something based on the knowledge you have.
  - **Example-** We should not *judge* anyone by their physical appearance.

- **Malign-** to publicly **criticize someone** or something, especially unfairly.
    - **Example-** She was recently *maligned* in the gossip columns of several newspapers due to her affairs.
- **Castigate-** to to **harshly criticize ,condemn** someone or something.
    - **Example -** The teacher was *castigated* for his new methods of teaching children.

---

52. Answer: b

Explanation:

The correct answer is- **'view of'** .

⭐ <u>Key Points</u>

- In the given options, **'view of'** will improve the underlines part of the sentence.
- The given sentence has a transitive verb - *'view'* followed by an article- *'the'*.
- Here, the transitive verb - **'view'** , is in need of a preposition - **'of'**.
- We use the article- **'the'** to refer to some **specific nouns.**
    - **Example-** They climbed **the** Great Himalayan mountains last year.
- Thus, *option 2)* is the correct option.

⭐ <u>Additional Information</u>

- A **Transitive verb** always **requires an object** to make a complete sentence.
- The structure for transitive verbs- [subject] + [transitive verb] + [direct object]
    - **Example -** He made cookies for our hiking trip.

---

53. Answer: d

Explanation:

The correct answer is- ' **had gathered'** .

⭐ <u>Key Points</u>

- In the given options, the correct option that will improve the given part of sentence is- **'had gather'** .
- The given sentence is in **past perfect tense.**
- In past perfect tenses, we use the structure- **Subject+** *'had + past participle of verb'* + **Object**
  - Example - She *had lived* in Delhi for three years.

Thus, **the correct sentence is** : *An immense crowd <u>had gathered</u> to witness this ceremony.*

---

54. **Answer: c**

Explanation:

The correct answer is - **'take after'** .

⭐ <u>Key Points</u>

- In the given options, the phrase- **'takes after'** will improve the given part of sentence.
- The phrase- *'take after'* is used **to resemble an older member of the family in personality** or appearance, or habit.
  - **Example-** Rachel is very pretty. She definitely *takes after* her mother.
- Thus, the correct option is *option 3).*

The correct sentence: *When it comes to love of sports, he <u>takes after</u> his father.*

⭐ <u>Additional Information</u>

Lets us understand the meaning and usage of the other phrases too.

- **Takes from- To acquire** , receive, or steal (something) from someone or something.
  - **Example-** *The thief had a policy of only <u>taking from</u> the rich houses.*

- **Takes by-** It is used to refer - **something to be attracted by** a particular idea, plan, or person or **like someone** .
  - **Example-** The puppy was so adorable that she got _taken by_ it.

---

55. Answer: b

Explanation:

The correct answer is- **'option 2)'** .

⭐ Key Points

- in the given options, the incorrectly spelt word is - **'Arachic'** .
- The correct spelling of the word is - **'Archaic'** .
- The word ' Archaic' is used to mean- very old fashioned.
- Example - _The walls are frequently covered in very basic, red and black_ _archaic_ _artwork._
- Thus, _option 2)_ is the correct option.

⭐ Additional Information

Let us understand the meaning of other options.

- Bombastic- **High-sounding , pompous, showy**
  - Example- He soon found that making a _bombastic_ movie was something he never thought of.
- Benign- **Kind or gentle.**
  - Example- There was a _benign_ smile on her face when she came to greet us.
- Artless- **simple, lacking art.**
  - Example- Her uncomplicated, _artless_ appeal immediately charmed us over.

---

56. Answer: d

Explanation:

The correct answer is- **option 4)** .

⭐ **Key Points**

- The given sentence has **'no error'**.
- Thus, the sentence-'*Businesses are asking employees to work from home*'is grammatically correct.

---

57. **Answer: a**

Explanation:

The correct answer is- '**A clumsy person in a delicate situation** '.

⭐ **Key Points**

- In the given options,*option 1)*gives the most appropriate meaning of the underlined idiom.
- The idiom- '*a bull in a China shop*'is used to refer to **a person who frequently makes mistakes or damages things when circumstances requires careful thinking or behavior.**
  - Example- In his capacity as a politician, he was*a bull in a china shop*and frequently had to apologize for his abrasive language.
- Thus, **option 1)** is the correct answer.

---

58. **Answer: d**

Explanation:

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

⭐ **Key Points**

- In the given options, **'Matinee'** can be used as one-word substitute for the given group of words.
- We use the word ' **Matinee** ' to refer - '*a performance or a show that takes place in the afternoon*'.
  - **Example-** His *matinee* presentation was open to the entire school.
- Thus, **Option 4)** is the correct answer.

---

59. **Answer: a**

Explanation:

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

⭐ **Key Points**

- In the given options, **'Navigate'** can be used as a one-word substitute for the given group of words.
- We use the word- *'Navigate* to refer to *'an ability to find ways and directions'.*
  - **Example-** Our brand-new vehicle includes a built-in *navigation* system.
- Thus, the correct option is *'option 1)*.

⭐ **Additional Information**

Let us understand the meaning and usage of other option.

- **Annotate-** It is used **to add explanations or remarks as notes in a book** or text .
  - **Example-** The reader is free to make *annotations* in the textbook and highlight any passages they want.

---

60. **Answer: c**

Explanation:

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

⭐ Key Points

- In the given options, **'perils'** is the most appropriate option to fill in the blank.
- We use the word **'peril'** to refer to ' **an event or factor that can cause a loss'** .
  - **Example-***I managed to survive despite of the*_peril._
- Thus, the correct option is*option 3)*.

The correct sentence:*It was a long and dangerous journey in those unsettled days. The pilgrim had to face*_peril_*by land and sea.*

⭐ Additional Information

Let us understand the meaning and usage of other options.

- **Respite-** It means to rest or relief.
  - **Example-***She works continuously without any*_respite._
- **Exposure-** It means disclosure.
  - **Example-***The face was tanned due to*_exposure_*to sun.*

---

61. **Answer: d**

Explanation:

The correct answer is **Reluctant.**

⭐ Key Points

- The most appropriate synonym of the given option is Reluctant.
- The word **hesitant** means*tentative, unsure, or slow in acting or speaking.*
- The word similar words are Reluctant, **uncertain, dubious etc.**
- Thus the correct synonym is**Reluctant.**

⭐ Additional Information

- The antonym of the Hesitant word is **certain, decisive, confident** etc.

---

62. **Answer: d**

Explanation:

The correct option is **She didn't knew.**

⭐ **Key Points**

- The part that contains the error is She didn't knew.
- This sentence is written in past indefinate tense. Its structure for negative sentences would be **-**
  - S + Did not + v1 + O
- In the given sentence verb's 1 form will be used, not the 2nd form.
- Thus the correct sentence would be She didn't know.

⭐ **Additional Information**

- Some examples of Past indefinite sentences are-
  - They **did** not **go** .
  - She **went** to a party.
- In the positive sentence, 2nd form of the verb would be used.
- Wherever use **did** , there do no use of the verb's 2nd form. There would be 1st form of the verb.

63. **Answer: d**

Explanation:

The correct answer is **No improvement required.**

⭐ **Key Points**

- The given sentence is in the**present continuous tense.**
- Thus the above sentence is correct, there is No improvement required.

⭐ <u>Additional Information</u>

- The sentence structure for the present continuous form would be-
  - S + is/are+ verb+ ing +O
  - Examples- **Many Indians are facing unemployment nowadays.**

---

64. Answer: d

Explanation:

The correct answer is **I have receive perhaps four.**

⭐ <u>Key Points</u>

- The part that contains errors from the given options is I have receive perhaps four.
- In this part **verb's third form** will be used. Because it is the part of the present perfect sentence.
- Thus the correct sentence would be   I have received perhaps four.

⭐ <u>Additional Information</u>

- The structure for the present perfect sentence would be-
  - S + has/have+V$_3$ +O (Positive Sentences)
  - Examples- I have **done** my work.

---

65. Answer: a

Explanation:

The correct answer is **Verbose.**

⭐ <u>Key Points</u>

- The most appropriate antonym of the given word is **Verbose.**

- The word **Laconic** means(a person, speech, or style of writing) **using very few words** .
- Verbose means **using or expressing more words than are needed.**
- Thus the correct antonym would beVerbose.

⭐ Additional Information

- **Pithy** - It means **(of a fruit or plant) containing much pith** .
- **Brief** - It means **a set of instructions given to a person about a job or task.**
- **Terse** - It means **sparing in the use of words abrupt.**

---

66. Answer: a

Explanation:

The correct answer is **Defeat.**

⭐ Key Points

- The most appropriate synonym for the given options is Defeat.
- **Vanquish**means **defeat thoroughly.**
- Thus the correct answer isDefeat.

⭐ Additional Information

- **Acquit**- It means **free (someone) from a criminal charge by a verdict of not guilty.**
- **Surrender**-It means **give up or hand over.**
- **Flee** -It means **running away from a place or situation of danger** .

---

67. Answer: b

Explanation:

The correct answer is **injurious.**

⭐ **Key Points**

- The most appropriate option to fill in the blanks would be injurious.
- Injurious means **causing or likely to cause damage or harm.**
- Thus the correct option would be injurious.

⭐ **Additional Information**

- spurious-It means **not being what it purports to be; false or fake.**
- repetitive-It means **containing or characterized by repetition, especially when unnecessary or tiresome.**
- commercial -It means **concerned with or engaged in commerce.**

---

68. **Answer: c**

Explanation:

The correct answer is **The table was graced with a lovely showpiece.**

⭐ **Key Points**

- The option that rectifies the incorrect word is **The table was graced with a lovely showpiece.**
- There are two miss-spelt words in the given sentences one is **grased,** second is **lovelly.**
- The correct words would be graced and lovely.
- Thus the rectified sentences would be The table was graced with a lovely showpiece.

⭐ **Additional Information**

- graced- It means**smoothness and elegance of movement** .
- lovely - It means**very beautiful or attractive** .

---

69. **Answer: c**

Explanation:

The correct answer is **outstanding.**

⭐ Key Points

- The most appropriate option to fill in the blank is **outstanding.**
- **Outstanding** means are **exceptionally good.**
- Thus the correct option would beoutstanding.

⭐ Additional Information

- The other words given in the options are **usual** and **normal,** both are used for ordinary conditions.
- The word **large** is not related to the given sentence.

---

70. **Answer: c**

Explanation:

The correct answer is **To settle disputes.**

⭐ Key Points

- The most appropriate meaning of the given idiom isTo settle disputes.
- The idiom Bury the hatchet means To settle disputes.
  - Example- He definitely doesn't promise to stop hoping that you'll **bury the hatchet** already.
- Thus the correct meaning would be To settle disputes.

---

71. **Answer: b**

Explanation:

The correct answer is**express.**

⭐ <u>Key Points</u>

- The most appropriate option to fill in the blanks is express.
- The word Express is used to **communicate one's own thoughts or sentiments** .
- Thus the correct one would be   express.

⭐ <u>Additional Information</u>

- **Condemn-**It means to **convey total displeasure.**
- **Attack-** It means to **use aggressive military force or armaments force.**
- **Condone -**It means to **acknowledge** .

---

72. Answer: d

Explanation:

The correct answer is **Relation.**

⭐ <u>Key Points</u>

- The most appropriate option to fill in the blanks is **Relation.**
- Relation means the **relationship between two or more individuals or objects.**
- Thus the correct option isRelation.

⭐ <u>Additional Information</u>

- **Mention-**It means **briefly and generally without delving into detail.**
- **Inspection** - It means **meticulous inspection or scrutiny.**
- **Position -**It means **a location or setting for someone, something, or both.**

---

73. Answer: a

Explanation:

The correct answer is **Realise.**

⭐ <u>Key Points</u>

- The most appropriate option to fill in the blanks is Realise.
- The **Realise** means   **becoming totally conscious.**
- Thus, the correct option is Realise.

⭐ <u>Additional Information</u>

- C omprehends-It means **understanding.**
- Acknowledges-It means **accepting or admitting the existence or truth of something.**
- Contrast-It means **the quality of being radically different from anything else when placed next to or closely associated with it.**

74. **Answer: c**

Explanation:

The correct answer is **Highest.**

⭐ <u>Key Points</u>

- The appropriate option to fill in the blanks is Highest.
- The word Highest means   is   with **a large vertical extent.**
- Thus the correct option is **Highest.**

⭐ <u>Additional Information</u>

- Smallest-It means **smaller than average or customary in size.**
- Latest-It means**on the most recent date.**
- Largest-It means **size, extent, or capability that is significant or comparatively large.**

75. **Answer: b**

Explanation:

The correct answer is **Harmony.**

⭐ <u>Key Points</u>

- The most appropriate option is Harmony.
- Harmony is   the **arrangement of sounds that are played at once to create a pleasing effect** .
- Thus the correct answer is Harmony.

⭐ <u>Additional Information</u>

- **Suffering-**It means**the condition of being in pain, distress, or difficulty.**
- **Menace-**It means**a hazard or threat.**
- **Loathing-**It means an **overwhelming dislike or distaste** .

76. **Answer: d**

Explanation:

The correct answer is <u>66% .</u>

⭐ <u>Key Points</u>

- The world population was estimated to have exceeded **7.9 billion** as of **November 2021.**
- India is the second most populated country in the world with 1/6th of the total world population.
- In 2022, the median age of an Indian was **28.7 years.**
- **Uttar Pradesh** is the most populated state of India and **Goa** is the least populated.
- **The Population Density** of India is **473.42 people per sq km** .

⭐ <u>Additional Information</u>

- **Singapore** is the most densely populated country in the world.
- **World Population Day** is an annual event, observed on **July 11** every year.
- **Mumbai** is the most populated city in India followed by **Delhi** and **Bangalore** .
- The life expectancy of an Indian is **67.6 years** according to the census of **2011-15**.

---

77. **Answer: c**

Explanation:

The correct answer is <u>27 Days</u>.

⭐ <u>Key Points</u>

- The Moon is Earth's only natural satellite.
- In the Solar System, it is the **fifth largest satellite.**
- The radius of the moon is **1,738 km** .
- The rotation and revolution period of the moon is almost the same, only one side of the moon is visible.
- Earth's gravity is 9.807 m/s², compared to the **moon's gravity of 1.62 m/s² or just 17 percent of Earth's gravity** .
- Moon's **axial tilt** to its orbit is **23.44 degrees.**

⭐ <u>Additional Information</u>

- **Neil Armstrong** became the first person to walk on the Moon as the commander of the American mission **Apollo 11** on **21 July 1969.**
- In **1990 Hiten-Hagoromo** , sent by **Japan** became the first mission that was not the Soviet Union or U.S. mission to the Moon.
- **India** reached the **Moon** in **2008** for the first time with its **Chandrayaan-1** and confirmed the presence of water molecules in lunar soil.
- **India's Mars mission** is known as **Mars Orbiter Mission (MOM)** . Its orbiting the planet since **24 September 2014.**

78. Answer: d

Explanation:

The correct answer is <u>Wular Lake.</u>

⭐ <u>Key Points</u>

- **Wular Lake** is in the **Jammu and Kashmir** state of India.
- It is the **largest freshwater lake** in **South Asia.**
- The lake basin was formed as a result of tectonic activity and is fed by the **Jhelum River** and stream **Madhumati.**
- This lake is **16 km in length** and **9.6 km in width** .
- In **1990** , it was designated as a **Wetland of International Importance** under the **Ramsar Convention** .

⭐ <u>Additional Information</u>

- **Lake Baikal** is **the largest freshwater lake** in the world.
- **The Caspian Sea** is the largest **saltwater lake** in the world whereas **Sambhar lake** of Rajasthan is India's **largest inland saltwater lake** .
- **Chilka lake** is India's largest **brackish water saline lake.**
- **Marovo Lagoon** is the largest saltwater lagoon in the World located in the **New Georgia Islands** .
- **Canada** has the most number of lakes in the world with more than **8.5 lakh lakes** .

79. Answer: a

Explanation:

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

⭐ <u>Key Points</u>

- The Manipuri Dance is also referred to as the Manipuri **Raas Leela.**
- This dance form has its roots in the northeast state **of Manipur.**
- Manipuri dance is one of the eight major dance forms of Indian culture.
- The dance form is imbued with the devotional themes of **Madhura Raas** of **Radha-Krishna** .
- Manipuri dance consists of **jagoi, cholom** and **Huyen langlon** .

⭐ **Additional Information**

Major Dance forms	Region of their origin
Mohiniyattam	Kerala
Kuchipudi	Andhra Pradesh
Odissi	Odisha
Kathakali	Kerala
Bharatanatyam	Tamil Nadu
Sattriya	Assam
Kathak	North India

80. **Answer: c**

Explanation:

The atomic number of Sulphur is 16 .

⭐ **Key Points**

- Sulphur is a **pale yellow nonmetallic element** occurring widely in nature in several free, allotropic, and crystal forms.
- Its **atomic mass** is **32** .
- Historically and in literature sulfur is also called **brimstone** which means **"burning stone"** .

- When burned, sulfur melts into a blood-red liquid and emits a blue flame.
- It melts at **115.21 °C (239.38 °F)** , boils at **444.6 °C (832.3 °F),** and sublimates easily.

⭐ Additional Information

- The first periodic table to become generally accepted was that of the **Russian chemist Dmitri Mendeleev in 1869.**
- On **17 February 1869 (1 March 1869 in the Gregorian calendar),** Mendeleev began arranging the elements and comparing them by their **atomic weights** .
- In **1875** , the **French chemist Paul-Émile Lecoq de Boisbaudran** discovered a new element in a sample of the mineral sphalerite and named it **Gallium** .
- Atoms with the same number of protons but different numbers of neutrons are called **isotopes** .
- The 83 elements that have survived the formation of the Earth are called **primordial** . All 24 known artificial elements are radioactive.

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81. **Answer: c**

Explanation:

The correct answer is <u>P romotion of International Peace and Security.</u>

⭐ Key Points

- Article 51 of the Indian Constitution has three parts.
- **Article 51(a):** of the Indian Constitution states that the State shall endeavor to promote international peace and security.
- **Article 51(b)** : The State shall maintain just and honorable relations between nations.
- **Article 51(c)** : The State shall foster respect for international law and treaty obligations in the dealings of organized peoples with one another; and encourage settlement of international disputes by arbitration.

⭐ Additional Information

- **Article 44** says, "The State shall endeavor to secure for the citizens a **uniform civil code** throughout the territory of India."
- The provisions unde r **Article 48** are **the Organization of agriculture and animal husbandry, the Protection and improvement of the environment, and safeguarding of forests and wildlife.**
- **Article 50** of the Constitution, which contains a Directive Principle of State Policy, provides the **separation of the judiciary from the executive in the public services of the State.**
- **Article 17** of the Indian Constitution prohibits **Untouchability** in all aspects.
- **Dr. B.R. Ambedkar** considered **Article 32 "the right to constitutional remedy"** , the soul of the Indian Constitution.

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82. Answer: c

Explanation:

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

⭐ <u>Key Points</u>

- **Dhamek Stupa** is a massive stupa located at **Sarnath** , 13 km away from **Varanasi** in the state of **Uttar Pradesh, India** .
- Dhamek Stupa, also spelled **Dhamekh** and **Dhamekha,** can be translated as the **Stupa of the reign of Dharma** .
- The Dhamek Stupa was built in **500 CE** .
- The Dhamek Stupa is said to mark the spot where the Buddha gave the first sermon to his first five disciples.
- The wall of the stupa is covered with exquisitely carved figures of humans and birds, as well as inscriptions in the Brahmi script.

⭐ <u>Additional Information</u>

- **Ramagrama stupa** is a stupa located in **Ramgram Municipality** , in the **Parasi District of Nepal** .
- **The Shanti stupa** is located in the midst of the presumed site of the Kalinga War in **Dhauli Hill in Odisha** .

- **Kesaria Stupa** is said to date back between 200 AD and 750 AD and may have been associated with the 4th-century ruler, **Raja Chakravarti.**
- **Mahabodhi Stupa** is located in **Bodh Gaya, Bihar** , and was built by **Ashoka the Great.**
- The **Ramabhar Stupa** in **Kushinagar** holds a significant place in the history of Buddhism being the cremation site of Lord Buddha.

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83. **Answer: c**

Explanation:

The correct answer is<u>Chapter II.</u>

⭐ <u>Key Points</u>

- **Chapter II** of the Constitution of India consists of **Article 79 to Article 122** .
- This chapter is in **Part 5** of the Indian Constitution.
- **Article 79** is about the **Constitution of the Parliament.**
- **Article 99** tells about the **Oaths or Affirmations by members.**
- **Article 110** gives the definition of **"Money Bill"** .

⭐ <u>Additional Information</u>

- **The preamble** is called '**The Soul of Indian Constitution** .
- **Dr. B.R. Ambedkar** purposed the '**Right to Constitutional Remedies'** as the **Soul of the Indian Constitution** .
- **Indian Constitution** is the largest constitution in the world.
- In **1928,** the **All Parties Conference** convened a committee in **Lucknow** to prepare the **Constitution of India** , which was known as the **Nehru Report** .
- It took almost **three years** to draft the constitution holding **eleven sessions over a 165-day period** .

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84. **Answer: d**

Explanation:

The correct answer is <u>Priyanka Chopra Jonas</u>.

⭐ <u>Key Points</u>

- **Unfinished** is a **2021** memoir by Indian actress **Priyanka Chopra** .
- This book can be described as a "collection of personal essays, stories, and observations", the book chronicles important moments in Chopra's life.
- It was released by **Penguin Random House** in **India** on **9 February 2021** .
- **Ballantine Books** published this book in the **United States** and **Michael Joseph** in the **United Kingdom.**
- It reached **The New York Times Best Seller** list in the **United States** and topped the **Nielsen BookScan** bestseller list in **India** .

⭐ <u>Additional Information</u>

- **Priyanka Chopra Jonas** was born on **18 July 1982** and is an Indian actress, producer, model, and singer.
- **Priyanka Chopra** was appointed as the **national and global UNICEF Goodwill Ambassador for child rights in 2010 and 2016.**
- In 2016, the Government of India honored Priyanka Chopra with the **Padma Shri.**
- She has received numerous accolades, including **two National Film Awards** and **five Filmfare Awards** .

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85. **Answer: d**

Explanation:

The correct answer is <u>Dyeing and finishing</u>.

⭐ <u>Key Points</u>

- **Value Addition** is the process where we enhance the salability of the product by adding some incentives to it.

- The textile industry continues to be the second-largest employment-generating sector in India.
- India is the world's second-largest exporter of textiles and clothing.
- **India** is also the world's **second-largest** producer of silk.
- **India** is the world's largest producer of **cotton and jute** .

⭐ Additional Information

- **The Ministry of Textiles** is currently led by **Piyush Goyal** .
- **Darshanaben Jardosh** is currently the **Minister of State.**
- In **2005** , the **National Jute Policy** was formulated with the objective of improving quality, increasing productivity and enhancing the yield of the crop.
- As of **November 2011** , there are **1,946 cotton textile** mills in India.
- The largest manufacturing industry in Mughal Empire (16th to 18th centuries) was textile manufacturing, particularly cotton textile manufacturing.

86. **Answer: c**

Explanation:

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

⭐ Key Points

- **Nuakhai** or **Navakhai** is **an agricultural festival mainly observed by people of Western Odisha** and **Southern Chhattisgarh in India** .
- **Nuakhai** is observed **to welcome the new rice** of **the season** .
- It will be celebrated **on Thursday, 1 September 2022** .
- The **new harvest crops** are **worshipped** and **people celebrate** it **by eating the first rice** of **the harvest together** with **their families** .
- **Nuakhai Juhar** is **sharing gifts** with your **dear ones** ,**wishing them** on **the occasion** , and **coming together** as **a family to symbolize unity** .

⭐ Additional Information

- **Chhath Puja** is the **famous** and **main festival of Bihar** . Bihar is **an ancient land having deep roots in religion** .**Folks** in Bihar, being **spiritually inclined** ,**celebrate many festivals** to **worship God** .**Chhath Puja** is the **only Vedic festival** that is **dedicated to the Sun God** .
- **Bihu** is the **most important festival in Assam** . It **is celebrated** with **joy and abundance by all Assamese people** irrespective of **caste** ,**creed, religion, faith, and belief** .
- **Pongal** also **referred to as Thai Pongal** , is a **multi-day Hindu harvest festival** celebrated by **Tamils in India** and **Sri Lanka** . It is **observed** at the **start of the month Tai according** to the **Tamil solar calendar** , and this is **typically about January 14** .

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87. **Answer: d**

Explanation:

The correct answer is **Arthur Tansley**.

⭐ Key Points

- **Sir Arthur George Tansley** FLS, FRS was **an English botanist** and **a pioneer in the science** of **ecology** .
- **Educated** at **Highgate School** ,**University College London** , and **Trinity College, Cambridge** ,**Tansley taught** at these universities and at **Oxford** , where he served as **Sherardian Professor of Botany** until **his retirement in 1937** .
- He was **born on 15 August 187 in London** ,**United Kingdom** , and died on **25 November 1955** in **Grantchester, United Kingdom**
- **Tansley founded** the **New Phytologist** in 1902 and **served** as **its editor until 1931** .
- **He was a pioneer** of the **science of ecology in Britain** .
- **Sir Arthur G. Tansley** coined the **term ecosystem in 1935** .

⭐ Additional Information

- **Charles Sutherland Elton FRS** was an **English zoologist** and **animal ecologist** . He is **associated** with the **development of population** and **community ecology** , including **studies of invasive organisms** .

- Eugene Pleasants Odum was **an American biologist** at **the University of Georgia** known for **his pioneering work** on **ecosystem ecology** . He and **his brother Howard** T. **Odum** wrote the **popular ecology textbook** ,Fundamentals of Ecology .

- **Frederic Edward Clements** was an **American plant ecologist** and **pioneer in the study of plant ecology** and **vegetation succession** .

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88. Answer: c

Explanation:

The correct answer is <u>Annual Financial Statement</u>.

⭐ <u>Key Points</u>

- In terms of **Article 112 (1**) of the **Constitution of India** , a statement of estimated **receipts and expenditures of the Government of India is presented to the Parliament every year** .
- **Article 112(2)** provides that the **estimate of expenditure embodied** in **this annual financial Budget** shall **show separately** .
- The **annual Financial Statement** shows the **receipts and payments of the Government** under the **three parts** in which Government accounts are kept: **(i) Consolidated Fund, (ii) Contingency Fund, and (iii) Public Account.**
- Annual reports typically include financial statements ,such as balance sheets ,income statements , and **cash flow statements** . In **addition** , there will **often be** graphs or charts included ,helping break down the **financials into easily readable information** .

⭐ <u>Additional Information</u>

- The **level of government spending** or the **amount of money the government spends** is **called the Fiscal Budget** .
- **Assessment Statement** means **the statement provided** by the **Validation/Verification Body** in accordance with **the VCS Program Rules** in respect of **the Methodology Element** .

- The annual Financial Statement distinguishes **the expenditure on** the **revenue account** from **the expenditure on other accounts** , as **mandated** in the Constitution .

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89. **Answer: d**

Explanation:

The correct answer is <u>Women's hockey</u>.

⭐ <u>Key Points</u>

- **India** has **won** a meager **28 medals** at the **Olympics** .
- Not **quite impressive** for **a country** that **has regularly participated** in the **quadrennial event** starting from the **1920 Antwerp Games** .
- In **Women's hockey** events **India did not win any medals** at **the Summer Olympics 2020** .

⭐ <u>Additional Information</u>

- **The Indian women's hockey team** won **the bronze medal** at **the Commonwealth Games** after they **beat Gold Coast 2018 champions New Zealand 2-1** in the penalty shootout at the University of **Birmingham Hockey** and **Squash Centre** .
- **The Indian women's national field hockey team** (nicknamed **the Nabhvarna**) represents India in **international field hockey** and is **governed by Hockey India** .
- **Nabhvarna** is **currently ranked 6th in the FIH World Rankings** and is **ranked the best team in Asia** .
- They **won gold medals** at the **2002 Commonwealth Games** and the **1982 Asian Games** .
- They have **also won the Women's Asia Cup twice** , i.e. **in 2004 and 2017** .
- They also **won the Asian Champions Trophy in 2016** . India at the **2020 Summer Olympics** , for the **first time ever** , reached the **semi-final in the Women's Hockey Olympic** event but **failed to bag any medal after they lost to Argentina** in **the semi-final** and then to **Great Britain in the Bronze medal match** .

90. **Answer: d**

Explanation:

The correct answer is <u>Lodi dynasty</u>.

⭐ <u>Key Points</u>

- **The Lodi dynasty** was **an Afghan dynasty** that **ruled the Delhi Sultanate** from **1451 to 1526** .
- It was **the fifth and final dynasty** of the **Delhi Sultanate** and was **founded by Bahlul Khan Lodi** when he **replaced the Sayyid dynasty** .
- The **dynasty** was of **Afghan origin** . The **first Lodī ruler** was **Bahlul Lodi(reigned 1451–89),** the **most powerful** of the **Punjab chiefs** , who **replaced** the **last king** of the **Sayyid dynasty in 1451** .
- **The Mughal emperor Babur defeated** and **killed Ibrahim Lodi** in the **Battle of Panipat** . The **death of Ibrahim Lodi** brought the **320-year-long Delhi Sultanate** to an **end** , and the **Mughal Empire took its place** .

⭐ <u>Additional Information</u>

- **The Khalji** or **Khilji dynasty** was a **Turco-Afghan dynasty** that **ruled the Delhi sultanate** , covering **large parts** of the **Indian subcontinent** for nearly **three decades between 1290 and 1320** .
- The **four major Rajput dynasties** — **Pratihara, Paramara, Chauhan, and Caulukya** — **claimed Agnikula lineage** .
- The **Tughlaq dynasty** , also referred to as **Tughluq or Tughluk dynasty** , was **a Muslim dynasty** of **Turkic origin** that ruled over **the Delhi sultanate** in **medieval India** . Its **reign started in 1320 in Delhi** when **Ghazi Malik assumed** the **throne** under the title of **Ghiyath al-Din Tughluq.** The **dynasty ended in 1413** .

91. **Answer: b**

Explanation:

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

⭐ <u>Key Points</u>

- In a move to keep all villages and **towns clean** , the **state government** has **decided** to **focus on sanitation** ,**particularly** on the **door-to-door** collection of **garbage** .
- The government has decided to implement the **CLAP (Clean Andhra Pradesh) program** as part of **its cleanliness drive** .
- Chief minister **YS Jagan Mohan Reddy** held a **review meeting** on CLAP (**Clean Andhra Pradesh)** at **his camp office.**
- The new garbage collection vehicles launched on **July 8** .
- **Dustbins** will also be set up on each and every street.

⭐ <u>Additional Information</u>

- The state government is procuring **8,000 automatic trucks** for **garbage collection** .
- **Each ward** and **division** in **villages** and **towns** would get **at least two trucks** for the **transportation of garbage** .
- **Compost** units **should take care** of the **treatment of garbage.**
- The department proposed to set **up another 5,000 compost units** to manage **cleanliness in the villages** .

92. **Answer: a**

Explanation:

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

⭐ <u>Key Points</u>

- **President Kovind** presents Padma Shri to **Gaddam Padmaja Reddy** for **Art. An internationally renowned Kuchipudi dancer** , she has **been performing for over fifty years** now.
- She has **worked relentlessly** to **promote Kuchipudi** .

- **Kuchipudi** is **a dance-drama performance** , with **its roots in the ancient Hindu Sanskrit text** of **Natya Shastra** . It developed as a **religious art** linked to **traveling bards ,temples** , and **spiritual beliefs** , like **all major classical dances** of **India** .

⭐ Additional Information

- **The Manipuri Dance** also referred to as **the Manipuri Raas Leela** , is **one of the eight major Indian classical dance forms** , originating from the **state of Manipur** .
- **Sattriya** , or **Sattriya Nritya** , is a **major Indian classical dance** . It is a **dance-drama performance art** with **origins in the Krishna-centered Vaishnavism monasteries** of **Assam** and **attributed to the 15th-century Bhakti movement** scholar and **saint Mahapurush Srimanta Sankardev.**
- **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** .

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93. **Answer: b**

Explanation:

The correct answer is 1651.

⭐ Key Points

- In **1651** , the **first English factory** was **set** up on **the banks of river Hugli in Bengal** .
- **The East India Company** convinced **merchants to settle** near **the factory** .
- By **1696** ,**the company began building** a**fort** around the **Hugli settlement** .

⭐ Additional Information

- **English East India Company** :
  - **The East India Company** first arrived **via sea route** at **Surat in the year 1608** for the **purpose of establishing** trade with **India** .

- The **Battle of Plassey** was a **decisive victory** of the **British East India Company** over the **Nawab of Bengal Siraj-Ud-Daulah** and his **French allies on 23 June 1757** .
- The **battle consolidated the Company's** presence **in Bengal,** which later expanded to cover much of **India over the next hundred years** .
- Fort **William was built in 1696** by the **East India Company** by **John Goldsborough at Calcutta** .

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94. Answer: a

Explanation:

The correct answer is <u>Harsh Vardhan Shringla</u>.

⭐ <u>Key Points</u>

- **Harsh Vardhan Shringla** is **a retired Indian diplomat** of the **IFS cadre** who **served** as **the 33rd Foreign Secretary** of **India from 29 January 2020 to 30 April 2022** .
- He **previously served** as the **Ambassador of India** to **the United States of America** ,**Ambassador to Thailand** , and **High Commissioner to Bangladesh** .
- **Foreign Secretary Harsh Vardhan Shringla** will be **appointed** as **coordinator for the G20 summit** , which will be **hosted by India in 2023** .
- This is a **newly created role** for **organizing the summit** , which will **include both substantive aspects** as **well as logistics** . Commerce **Minister Piyush Goyal** will remain **the G20 sherpa** .

⭐ <u>Additional Information</u>

- **Rajiv Gauba** is an **Indian civil servant serving** as the **current Cabinet Secretary** of **India since 2019** . He is an **Indian Administrative Service officer** belonging **1982 batch** of the **Jharkhand cadre** .
- **Shashi Tharoor** is an **Indian former international diplomat, politician, writer, and public intellectual** who has **been serving** as a **Member of Parliament** for **Thiruvananthapuram, Kerala, since 2009** .

- Ajit Kumar Doval KC is a **central civil servant** of the **IPS cadre** serving as the **fifth** and the **current National Security Advisor** to the **Prime Minister of India** , with the **precedence equivalent to Cabinet Minister** .

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95. **Answer: a**

Explanation:

The correct answer is **No limit**.

⭐ **Key Points**

- **Hockey** is a **term used** to **denote various types** of **both summer** and **winter team sports** which **originated** on **either an outdoor field** ,**sheet of ice** ,**or dry floor** such as **in a gymnasium** .
- **There are many types of hockey** . Some **games make use of skates** , either **wheeled** or **bladed** while **others do not** .
- A **regular game consists** of **three 20-minute periods** , with **a 15-minute intermission** after the **first and second periods** . Teams change **ends for each period** .
- **Each team is permitted** to **substitute** from its **players not on the field of play** , and there **is no limit to the number of substitutions a** **team** is allowed at **one time or throughout the game.**

⭐ **Additional Information**

- **Hockey** was **considered a national sport** due to the **country's dominance from 1928–1956** , a period when the Indian team **won 8 gold, 1 silver and 3 bronze in Olympics.**

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96. **Answer: a**

Explanation:

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

⭐ <u>Key Points</u>

- Infiltration
  - The **process of seepage of water into the land** is called infiltration.
  - Water not used by plants moves deeper into the ground.
  - Infiltration rate in soil science is a measure of the rate at which soil is able to absorb rainfall or irrigation.
  - The rate of infiltration can be measured using an **infiltrometer.**
  - The main factors that influence the infiltration are:
    - the soil type
    - the soil coverage
    - the topography and morphology of slopes
    - the flow supply
    - the initial condition of soil humidity

⭐ <u>Additional Information</u>

- Depletion
  - Depletion is the **reduction in the quantity of a factor of production** as a result of the production process.
  - Companies use existing goods and services to create new goods and services.
  - The conversion of existing goods into new goods is known as a production process.
  - There are two types of depletion:
    - Percentage depletion
    - Cost depletion

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97. **Answer: c**

Explanation:

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

⭐ **Key Points** <u>Key Points</u>

- **Samudragupta** was the **second emperor** of the **Gupta Empire** of **ancient India** and is **regarded among** the **greatest rulers of the dynasty** .
- **As a son** of the **Gupta emperor Chandragupta I** and the **Licchavi princess Kumaradevi** , he greatly **expanded** his **dynasty's political** and **military power** .
- **Samudragupta** was the **first significant ruler** of the **Gupta Dynasty** .
- **Samudragupta** was **not power-hungry** . But **like Napoleon** , he was **never defeated nor sent to exile or jailed** .
- **Gupta King Samudragupta** loved to **play the flute** and **love poems** . He not **only penned many poems himself** but also **patronized the poets** . Due to these, he **was titled Kaviraj or King of Poets** .

⭐ <u>Additional Information</u>

- **Jahanpanah** was a **fortified city built by Muhammad bin Tughlaq** to **combat the Mongol attacks** . The city has now been ruined but still, people can find walls and a few structures built inside the fort. Jahanpanah means Refuge of the world.
- **This imperial title means** "**The Lord** of the **Auspicious Conjunction** in **Persianized Arabic** and **refers to a ruler** whose horoscope **features particular conjunction of** Jupiter and Saturn ,portending a reign of world conquest and justice .
- **Kumargupta** was the **successor of Chandragupta II** and he assumed the title "**Mahendraditya**". He **expanded** the **empire further by** acquiring **provinces** of **Western India** . He **enjoyed a reign** of about **forty years from 414 AD to 455 AD** .

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98. **Answer: d**

Explanation:

The correct answer is <u>Raja Ram Mohan Roy</u>.

⭐ <u>Key Points</u>

- **Ram Mohan Roy** was an **Indian reformer** who was **one of the founders of the** Brahmo Sabha in **1828** , the **precursor of the Brahmo Samaj** , a **social-religious**

reform movement in the **Indian subcontinent** . He was **given the title of Raja** by Akbar II ,the Mughal emperor .

- He was **born on 22 May 1772, in Radhanagar, Khanakul** , and **died on 27 September 1833** ,Stapleton ,Bristol ,United Kingdom .
- **Raja Ram Mohan Roy** the **founder of the Brahmo Samaj** was a **great scholar** and an **independent thinker** .
- **He was a religious** and **social reformer** and is known as the 'Father of Modern India' or 'Father of the Bengal Renaissance .
- The **Brahmo Samaj** was a **monotheistic sect of Hinduism** .
- The **movement began** through **meetings of Bengalis in Calcutta in 1828** .
- One of **the leading figures** was **Ram Mohun Roy** . This group was **known as the Brahmo Sabha** .

⭐ Additional Information

- **Maharshi Dayanand Saraswati** was an **Indian philosopher** ,social leader , and founder of the **Arya Samaj** , a **reform movement** of the **Vedic dharma** . He was the **first to give the call** for **Swaraj** as **"India for Indians"** in 1876 , a call **later taken up by Lokmanya Tilak** .
- **Ram Singh** was the **elder son** of **Jai Singh** and was **the ruler of Amber** , and **head of the Kachwaha Rajput clan** . He was also the **subedar** of **Kashmir** .
- **Hridya Nath Kunzru** was an **Indian freedom fighter** and **public figure** . He was a **long-time Parliamentarian** , serving in **various legislative bodies** at the **Provincial and Central levels** for nearly **four decades** . He was a **member of the Constituent Assembly** of India that drew up the **Constitution of India** .

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99. **Answer: b**

Explanation:

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

⭐ **Key Points**

- **Kabul** is the **capital and largest city of Afghanistan** , located in the **eastern section of the country** .

- It is also **a municipality** ,**forming part** of the **greater Kabul Province** , and it is **divided into 22 districts** .
- **Kabul** is known for **its historical gardens** ,**bazaars** , and **palaces** , well-known examples are the **Gardens of Babur and Darul Aman Palace** .
- In the latter half of the **20th century** , it became **a stop on the hippie trail attracting tourists** , while the city also gained the **nickname Paris of Central Asia** .
- **The snowy period** in the **Kabul** of the year **lasts for 3.0 months** , from **December 8 to March 9** , with a **sliding 31-day snowfall** of at least **1.0 inches** .

⭐ Additional Information

- **Kandahar** is a **city in Afghanistan** , located in the **south of the country** on the **Arghandab River** . It is Afghanistan's **second-largest city** after Kabul, with a **population of about 614,118** .
- **Kathmandu** ,**Nepal's capital** , is set in **a valley surrounded by the Himalayan mountains** . At the **heart** of the **old city's mazelike alleys** is **Durbar Square** , which becomes **frenetic during Indra Jatra** , a **religious festival featuring masked dances** .
- **Karachi** is the **largest city in Pakistan** and the **twelfth-largest city in the world** . It is the **capital of the Pakistani** province of **Sindh** . Ranked as a **beta-global city** .

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100. **Answer: a**

Explanation:

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

⭐ Key Points

- **Ravi Shankar KBE** was an **Indian sitarist** and **composer** .**A sitar virtuoso** , he **became** the **world's best-known** exponent of **North Indian classical music** in the **second half** of the **20th century** and **influenced** many **musicians in India** and **throughout the world** .

- He was **born on 7 April 1920** in **Varanasi** and **died on 11 December 2012** in **La Jolla ,California ,United States.**
- He was **awarded Bharat Ratna ,Grammy Lifetime Achievement Award ,and more** .
- He is **an Indian musician ,player of the sitar ,composer** , and **founder** of the **National Orchestra of India** .
- **Sitar** , a **stringed** instrument of the **lute family** that is **popular in northern India ,Pakistan** , and **Bangladesh** .

⭐ <u>Additional Information</u>

- **The violin** , sometimes **known as a fiddle** , is **a wooden chordophone** in the **violin family** . Most violins have **a hollow wooden body** . It is the **smallest and thus highest-pitched** instrument in the **family in regular use** .
- **The flute** is a **family of classical music instruments** in the **woodwind group** . Like all woodwinds, **flutes are aerophones** , i.e. they make **sound by vibrating a column of air** .
- **The guitar** is a **fretted musical** instrument that **typically has six strings** . It **is usually held flat against** the **player's body** and played by **strumming** or **plucking** the **strings** with the **dominant hand** .

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