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 GD Constable 2021 (English) Prev. Year Paper (07-Dec-2021) (Shift 2)

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

Instructions

SI No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence and Reasoning	25	25	0.25	1
2	General Knowledge and General Awareness	25	25	0.25	1
3	Elementary Mathematics	25	25	0.25	1
4	English	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 and Reasoning

1. Study the given pattern carefully and select the number that can replace the question mark (?) in it. **(+1, -0.25)**

   12 30 18

   18 45 27

   24 ? 24

   a. 14

   b. 48

   c. 44

   d. 24

---

2. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure. **(+1, -0.25)**

   QWERTY

   a. ꟼWƎЯTY

   b. ꟼWEЯ⊥Y

   c. YTЯƎWꟼ

   d. YTЯƎWꟼ

3. If the letters of the alphabet from A to Z represent each other in the reverse order, i.e. A = Z, B = Y, C = X, D = W and so on, then how will 'CERTIFIED' be written? **(+1, −0.25)**

   a. XVIGURVRW

   b. XVIGRURVW

   c. XVIGURRVW

   d. XVIGRUVRW

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

   153 : 12 :: ? : 17 :: 205 : 14

   a. 290

   b. 218

   c. 298

   d. 307

5. Select the number from among the given options that can replace the question mark (?) in the following series. **(+1, −0.25)**

   1, 2, 3, 8, 15, ?, 105, 384

   a. 54

   b. 68

c. 72

d. 48

---

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

DGK : URN :: HTP : ?

a. JIP

b. MKJ

c. GUN

d. QEI

---

7. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different. **(+1, -0.25)**

a. OKG

b. UQN

c. JFB

d. GCY

---

8. 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 tigers are lions.

All lions are animals.

Conclusions:

⬚. All tigers are animals.

⬚. No tigers is a bird.

   a. Only conclusion II follows

   b. Both the conclusions follow

   c. Either conclusion I or II follows

   d. Only conclusion I follows

---

9. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.   **(+1, -0.25)**
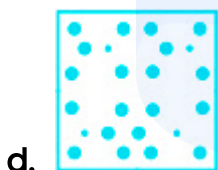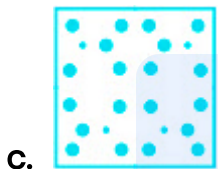
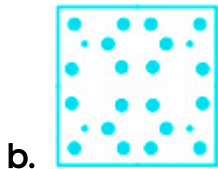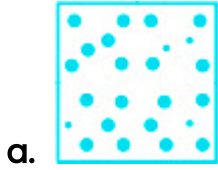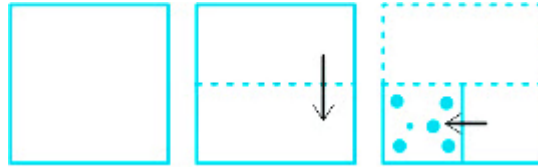   EFJ, FGK, GHL, HIM, ?

   a. IJM

   b. IKM

   c. IJN

   d. IKN

---

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

a.

b.

c.

d.

11. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.   (+1, -0.25)

1. Certain

2. Certify

3. Cerebral

4. Ceramic

5. Ceremony

a. 4, 3, 5, 1, 2

b. 4, 3, 5, 2, 1

c. 3, 4, 5, 1, 2

d. 4, 3, 2, 5, 1

---

12. 'Chair' is related to 'Wood' in the same way as 'Blanket' is related to '_____'.   (+1, -0.25)

a. Wool

b. Bed

c. Plastic

d. Paper

---

13. Which two numbers need to be interchanged to make the following equation correct?   (+1, -0.25)

30 + 28 − 34 ÷ 2 × 4 = 2

a. 34 and 4

b. 4 and 2

c. 28 and 34

d. 30 and 34

---

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

70, 66, 58, 46, 30,?

a. 16

b. 10

c. 12

d. 8

---

15. Eight friends P, Q, R, S, T, U, V and W are sitting around a circular table facing the centre. V is second to the right of R. P is fourth to the left of S. T is third to the left of U. Only Q is between S and T. Who is sitting between P and T? (+1, -0.25)

a. U

b. S

c. V

d. Q

---

16. Five friends are sitting in a row facing north. G is sitting to the immediate right of I. F is sitting to the immediate left of H, but to the immediate right of E. If H and I are sitting next to each other, then who is sitting in the centre? (+1, -0.25)

a. E

b. H

c. I

d. F

---

17. In a certain code language, 'CANDLE' is coded as '52144113'. How will 'QUIET' (+1, −0.25)
be coded in that language?

   a. 02591271

   b. 20591271

   c. 20592117

   d. 02592117

---

18. Select the combination of letters that when sequentially placed in the (+1, −0.25)
blanks of the given series will complete the series.

   E_ _CD _ H J _ _ E H _ _ D

   a. H, E, C, D, C, J, C

   b. H, J, C, E, C, E, H

   c. H, J, E, C, D, J, C

   d. H, C, E, J, D, C, E

---

19. In a certain code language, ROSE is written as QNRD. How will MIND be (+1, −0.25)
written in that language?

   a. MCLH

   b. MCHL

   c. LHMC

   d. HLMC

---

20. When a number is added to its previous number and another number **(+1, −0.25)**
that is two times its previous number, the sum of these three numbers is
61. Find the number.

    a. 16

    b. 14

    c. 15

    d. 13

---

21. Select the option in which the given figure is embedded. **(+1, −0.25)**

    a.

    b.

    c.

    d.
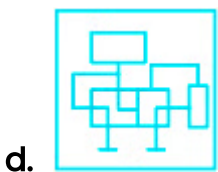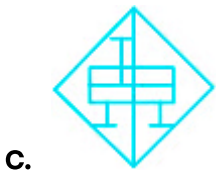
22. Y is mother of B. B is married to C. X is father of C. J is the only son of X. K is the only child of J. How is B related to J? **(+1, -0.25)**

    a. father-in-law

    b. brother in law

    c. Brother

    d. niece or nephew

---

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

    a.

    b.

    c.
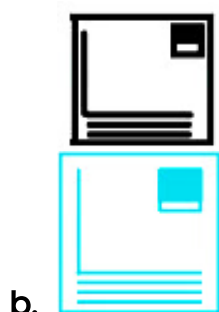
d.

---

24. Three different positions of the same dice are shown, the six faces of which are numbered 1 to 6. Select the number that will be on the face opposite to the one having '3'.   **(+1, −0.25)**

a. 5

b. 2

c. 6

d. 1

---

25. In a college, 15 students study both history and psychology. In total, 22 students study history and 32 students study psychology. There are 12 more students who study only physics. What is the total number of students who study only history and only physics?   **(+1, −0.25)**

a. 17

b. 27

c. 34

d. 19

General Knowledge and General Awareness

26. As of December 1947, the Constituent Assembly that wrote the Constitution of India had _____ members. **(+1, -0.25)**

    a. 230

    b. 275

    c. 245

    d. 299

27. Which of the following is the national sport of Sri Lanka? **(+1, -0.25)**

    a. Volley Ball

    b. Swimming

    c. Cricket

    d. Football

28. Which of the following campaigns did the Prime Minister of India announce during his Independence Day speech in 2020? **(+1, -0.25)**

    a. Project Tiger

    b. Project Dolphin

    c. Project Leopard

    d. Project Lion

29. Which of the following states is the first and only state in India to make rooftop rainwater harvesting compulsory in the state?   (+1, -0.25)

    a. Andhra Pradesh

    b. Meghalaya

    c. Mizoram

    d. Tamil Nadu

30. Which of the following female mosquitoes acts as a carrier of dengue virus?   (+1, -0.25)

    a. Anopheles

    b. Culex

    c. Mansonides

    d. Aedes

31. Which of the following rivers flows into the Arabian Sea?   (+1, -0.25)

    a. Krishna

    b. Narmada

    c. Kaveri

    d. Godavari

32. In which of the following years was the Communist party of India (Marxist) founded in Tashkent?　　(+1, −0.25)

    a. 1909

    b. 1934

    c. 1912

    d. 1920

33. 'Sangita Ratnakara' by Pandit Sarngadeva is a _ _ _ _ _ _ _ Century treatise on Indian classical music.　　(+1, −0.25)

    a. 15th

    b. 11th

    c. 13th

    d. 17th

34. Who among the following personalities was given the subadari of Agra in 1722?　　(+1, −0.25)

    a. Sawai Raja Jai Singh

    b. Sawai Raja Jagat Singh

    c. Jahandar Shah

    d. Shahjahan

35. Who among the following was appointed as the MD and CEO of HDFC Mutual Fund in November 2020?   (+1, −0.25)

    a. VK Yadav

    b. TN Manoharan

    c. Rajiv Kumar

    d. Navneet Munot

36. Who among the following personalities was the first Indian member of Indian Civil Services in 1870?   (+1, −0.25)

    a. Nibaran Chandra Mukherjee

    b. Satyendranath Tagore

    c. Pingali Venkayya

    d. Bipin Chandra Pal

37. Which of the following Indian cities is famous for Kalamkari painting?   (+1, −0.25)

    a. Visakhapatnam

    b. Kakinada

    c. Golconda

    d. Masulipatnam

38. National Clean Air Programme (NCAP), launched by the Central Government, hopes to achieve _ _ _ _ _ _ reduction in Particulate Matter concentrations by 2024, keeping 2017 as the base year for the comparison of concentration.   (+1, −0.25)

    a. 20% to 30%

    b. 40% to 50%

    c. 75% to 85%

    d. 5% to 15%

---

39. When did the Prime Minister of India release a coin of ₹100 to celebrate the birth centenary of Rajmata Vijaya Raje Scindia?   (+1, −0.25)

    a. 16 October 2020

    b. 10 October 2020

    c. 14 October 2020

    d. 12 October 2020

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40. The launch of the 'Krishi Udan Yojana' for transport of agricultural products was announced as part of the Budget _ _ _ _ _ _.   (+1, −0.25)

    a. 2017

    b. 2019

    c. 2018

    d. 2020

41. Which of the following hills is located in Andhra Pradesh?   (+1, -0.25)

    a. Anaimalai Hills

    b. Palkonda Hills

    c. Nilgiri Hills

    d. Mahabaleshwar Hills

42. In which year was General Insurance Corporation of India incorporated   (+1, -0.25)
    as a company?

    a. 1988

    b. 1972

    c. 1965

    d. 1981

43. Indira Gandhi Memorial Tulip Garden, which is Asia's largest tulip garden,   (+1, -0.25)
    is located in:

    a. Shimla

    b. Dehradun

    c. Srinagar

    d. Dharamshala

44. Vaidehi Dongre from _ _ _ _ _ _ was crowned Miss India USA 2021 in July 2021.   (+1, −0.25)

    a. Nevada

    b. Wisconsin

    c. Michigan

    d. Kansas

45. Which of the following teams won the Indian Premier League title five times?   (+1, −0.25)

    a. Sunrisers Hyderabad

    b. Chennai Super Kings

    c. Kolkata Knight Riders

    d. Mumbai Indians

46. Stereopsis is a feature associated with the _ _ _ _ _ _.   (+1, −0.25)

    a. eye

    b. nose

    c. ear

    d. tongue

47. Who among the following is the author of the book 'Why I Am a Hindu'?   (+1, −0.25)

a. Shashi Tharoor

b. Satyarth Nayak

c. Vikram Seth

d. Manmohan Singh

---

48. What was the theme of the 12 th BRICS (Brazil, Russia, India, China, and South Africa) Summit held on 17 November 2020?   (+1, -0.25)

a. BRICS Partnership for Global Sustainability, Shared Health and Innovative Technology

b. BRICS Partnership for Global Security, Shared Destiny and Innovative Ideas

c. BRICS Partnership for Global Stability, Shared Security and Innovative Growth

d. BRICS Partnership for Global Science, Shared Health and Innovative Solutions

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49. What is the minimum age requirement (prescribed by the Constitution of India) to become a member of a Panchayat?   (+1, -0.25)

a. 18 years

b. 21 years

c. 36 years

d. 28 years

50. Which of the following games is related to the 'U Thant Cup'?   (+1, -0.25)

   a. Lawn tennis

   b. Horse racing

   c. Table tennis

   d. Hockey

Elementary Mathematics

51. A can do a piece of work in 40 days. He works at it for 10 days, and then B alone finishes the remaining work in 45 days. In how many days will A and B working together finish 75% of the same work? **(+1, −0.25)**

    a. 18

    b. 16

    c. 24

    d. 20

---

52. The value of 3 × 8 ÷ 4 of 6 − 6 ÷ 4 × (13 − 15) + 4 − 2 × 9 ÷ 6 × 6 is: **(+1, −0.25)**

    a. $8\frac{1}{2}$

    b. −16

    c. $7\frac{1}{2}$

    d. −10

---

53. Pipes A and B can fill an empty cistern in 12 hours and 16 hours, respectively. Both pipes are opened together and after 3 hours pipe B is closed. How much time (in hours) will pipe A take to fill the remaining cistern? **(+1, −0.25)**

    a. 9

    b. $6\frac{3}{4}$

    c. $5\frac{1}{4}$

d. 7

---

54. The average of 23 numbers is 45. The average of the first 12 numbers is 40.5 and the average of the last 6 numbers is 48.5. What is the average of the remaining numbers? **(+1, -0.25)**

a. 48.8

b. 51.1

c. 49.4

d. 51.6

---

55. Let x be the greatest number of 4-digits which when divided by 12, 15, 16 and 20, the remainders are 9, 12, 13, and 17, respectively. The sum of the digits of x is: **(+1, -0.25)**

a. 13

b. 27

c. 17

d. 28

---

56. A motorboat covers a distance of 48 km upstream in one hour more than the time taken to cover the same distance downstream. If the speed of the current of the river is 4 km/h, then what is the speed (in km/h) of the boat in still water? **(+1, -0.25)**

a. 10

b. 16

c. 15

d. 20

---

57. Two trains A and B are running in the same direction at the uniform speeds of 80 km/h and 100 km/h, respectively. Train A leaves the station 30 min earlier than the train B from the same station. The time taken by train B to cross train A will be: **(+1, −0.25)**

a. 12.5 minutes

b. 15 minutes

c. 2 hours

d. $\frac{50}{3}$ minutes

---

58. During a fashion show in a stadium, $82\frac{2}{3}$ % of seats were filled out of 2100 seats. What is the total loss incurred (in ₹) in the show if each seat costs ₹160? **(+1, −0.25)**

a. 97610

b. 58240

c. 69720

d. 47960

---

59. When the number 25 is included in a list of natural numbers, their average is increased by 4. When the number 7 is included in the new list, the average of the numbers in the new list is decreased by $\frac{1}{3}$. How many numbers were there in the original list? **(+1, −0.25)**

a. 4

b. 5

c. 3

d. 7

---

60. The difference between the compound interest and the simple interest accrued on an amount of ₹40,000 in 2 years was ₹324. The rate of interest per annum was: **(+1, −0.25)**

a. 7%

b. 9%

c. 12%

d. 8%

---

61. An article is sold at a profit of 25%. If its cost price is reduced by 20% and it is sold at the same selling price, then what will be the profit per cent? **(+1, −0.25)**

a. 36%

b. $56\frac{1}{4}\%$

c. $54\frac{3}{4}\%$

d. 45%

---

62. ABCD is a square of sides 30 m. What is the area of the least-sized square that can be inscribed in it with its vertices on the sides of ABCD? **(+1, −0.25)**

a. 400 m^2

b. 500 m^2

c. 450 m^2

d. 550 m^2

---

63. The diameter of the base of a cone is 1.5 times its height. If its curved surface area is 480 π cm ^{2}, then its slant height (in cm) is:

(+1, −0.25)

a. $20\sqrt{5}$

b. $10\sqrt{5}$

c. $10\sqrt{2}$

d. $20\sqrt{2}$

---

64. A certain sum borrowed at 7.5% p.a. at simple interest amounts to ₹16,950 in $5\frac{1}{2}$ years. What will be the simple interest (in ₹) on the same sum at the same rate in $8\frac{1}{4}$ years?

(+1, −0.25)

a. 8,415

b. 6,806

c. 7,425

d. 6,188

---

65. A certain sum amounts to ₹9,648 in 4 years and to ₹11,484 in 7 years at the same rate percent per annum at simple interest. The sum is:

(+1, −0.25)

a. ₹7,800

b. ₹7,200

c. ₹7,000

d. ₹7,500

---

66. The greatest number which divides 52, 68 and 116 to leave the same remainder in each case is: (+1, −0.25)

a. 14

b. 12

c. 18

d. 16

---

67. The cost price of 62 books is equal to the selling price of 50 books. The profit per cent is: (+1, −0.25)

a. 24

b. 25

c. 20

d. 30

---

68. On simplification, the expression $1 \div 1 \left\{ \frac{1}{2} + \frac{5}{2} of \frac{1}{5} - \left(\frac{1}{4} \div \frac{1}{2} + \frac{1}{2} \right) + \frac{1}{2} \times 3 \right\}$ will give the result as: (+1, −0.25)

a. 0

b. $-\frac{1}{2}$

c. $\frac{1}{2}$

d. $\frac{2}{3}$

---

69. If the discount of 18% in the price of rice enables a housewife to buy 5 kg more for ₹1876, then the reduced price (in ₹) of rice per kg (correct to nearest ₹) is:

    (+1, −0.25)

    a. 68

    b. 72

    c. 65

    d. 70

---

70. A shopkeeper marked his goods in at 25% higher price than their cost price. Finally, he sold the goods at 30% discount on the marked price. His profit/loss percentage is:

    (+1, −0.25)

    a. 13.5% profit

    b. 11.5% profit

    c. 12% loss

    d. 12.5% loss

---

71. Two vessels A and B contain acid and water in the ratio 3 : 2 and 7 : 3, respectively. The contents of A and B are mixed in the ratio 4 : 3. What is the ratio of acid and water in the resulting solution?

    (+1, −0.25)

a. 5 : 2

b. 2 : 1

c. 9 : 5

d. 8 : 3

---

72. A salesman sells an item at a profit of 24%. If he had bought it at 12% less   (+1, −0.25)
    and sold it for ₹69 less, he would have gained 20%. Find the cost price of
    the item.

    a. ₹425

    b. ₹375

    c. ₹900

    d. ₹850

---

73. 65% of the total candidates who appeared for an examination were boys.   (+1, −0.25)
    28% of the boys and 16% of the girls failed and 702 boys passed. How
    many girls passed?

    a. 440

    b. 460

    c. 420

    d. 441

---

74. Five years ago, the ratio of the ages of A and B was 5 : 8. Ten years from   (+1, −0.25)
    now, the ratio of their ages will be 8 : 11. What is the present age (in years)

of B?

a. 35

b. 30

c. 40

d. 45

---

75. What is the third proportional to 6 and 42? $\quad\quad$ (+1, -0.25)

a. 294

b. 349

c. 249

d. 284

English

76. Select the INCORRECTLY spelt word.   **(+1, -0.25)**

   a. Imaculate

   b. Immense

   c. Impediment

   d. Immature

---

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

The little girl _____ a puppy from the street.

   a. rescued

   b. transferred

   c. preserved

   d. passed

---

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

He did much mistakes .

   a. No improvement required

   b. did many a mistakes

   c. make many mistakes

   d. committed many mistakes

---

79. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.   **(+1, -0.25)**

I am thinking / your idea will be / really appreciated / by everyone.

   a. I am thinking

   b. your idea will be

   c. really appreciated

   d. by everyone

---

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

Between Scylla and Charybdis

   a. Dividing into equal shares

   b. Choice between two unpleasant alternatives

   c. Winning a competition

   d. Choice between two pleasant alternatives

---

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

Persist

   a. Incline

   b. Convince

    c. Enable

    d. Discontinue

---

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

Dummy

    a. Counterfeit

    b. Original

    c. Copy

    d. Duplicate

---

83. Parts of the given sentence have been given as options. One of them   **(+1, −0.25)**
contains a grammatical error. Select the option that has the error.

The easiest way to make pasta is to be followed Chef Kapoor's
instructions on YouTube.

    a. to be followed

    b. make pasta

    c. instructions on TouTube

    d. The easiest way

---

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

Many of the apples <u>were rotten</u>.

a. is rotten

b. No substitution required

c. is been rotten

d. was rotten

---

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

It is a well-known fact that air pollution has a terrible _ _ _ _ _ _ on the health of people.

a. effect

b. problem

c. shock

d. force

---

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

Raining cats and dogs

a. Raining lightly

b. Too crowded

c. Cat and dog fight

d. Raining heavily

---

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

A person who walks in his/her sleep

a. Somnambulist

b. Exorcist

c. Atheist

d. Ventriloquist

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

Toil

a. Sweat

b. Drive

c. Climb

d. Rest

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

Keen

a. Jovial

b. Eager

c. Active

d. Benign

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

The sound an elephant makes

    a. Low

    b. Grunt

    c. Trumpet

    d. Bray

---

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

If the air <u>pollutes with</u> small particles, natural or otherwise, the sunset will be more red.

    a. will be polluted with

    b. No substitution required

    c. is polluted with

    d. was polluted with

---

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

Shortened form of a word or phrase

    a. Summary

b. Abbreviation

c. Anagram

d. Precis

---

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

The systems _ _ _ _ _ _ on back-up battery when the electricity goes off.

a. activate

b. control

c. drive

d. operate

---

94. The following sentence has been split into four segments. Identify the (+1, -0.25)
segment that contains a grammatical error.

Water / freeze at / 0 degree / Celsius.

a. Water

b. Celsius

c. 0 degree

d. freeze at

---

95. Select the INCORRECTLY spelt word. (+1, -0.25)

a. Thrust

b. Sheild

c. Attach

d. Injury

---

96. 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)

The power of words (1)_____ an enduring effect and can be (2)_____ by all men and women. Words are not (3)_____ for writers or lovers of literature. Every profession is (4)_____ by words. It is impossible to (5)_____ oneself without using words.

Select the most appropriate option to fill in blank no. 1.

a. are

b. has

c. is

d. have

---

97. 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)

The power of words (1)_____ an enduring effect and can be (2)_____ by all men and women. Words are not (3)_____ for writers or lovers of literature. Every profession is (4)_____ by words. It is impossible to (5)_____ oneself without using words.

Select the most appropriate option to fill in blank no. 2.

    a. looked

    b. pleased

    c. impressed

    d. enjoyed

---

98. 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)**

The power of words (1)_____ an enduring effect and can be (2)_____ by all men and women. Words are not (3)_____ for writers or lovers of literature. Every profession is (4)_____ by words. It is impossible to (5)_____ oneself without using words.

   Select the most appropriate option to fill in blank no. 3.

    a. such

    b. merely

    c. hardly

    d. same

---

99. 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)**

The power of words (1)_____ an enduring effect and can be (2)_____ by all men and women. Words are not (3)_____ for writers or lovers of literature. Every profession is (4)_____ by words. It is impossible to (5)_____ oneself without using words.

Select the most appropriate option to fill in blank no. 4.

a. guided

b. trained

c. charged

d. managed

---

100. 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)

The power of words (1)_____ an enduring effect and can be (2)_____ by all men and women. Words are not (3)_____ for writers or lovers of literature. Every profession is (4)_____ by words. It is impossible to (5)_____ oneself without using words.

Select the most appropriate option to fill in blank no. 5.

a. depress

b. express

c. repress

d. impress

Answers

1. Answer: b

Explanation:

The logic followed here is:

Logic: In a row: First Number + Third Number = Second Number

- 12 + 18 = 30
- 18 + 27 = 45

Similarly,

- 24 + 24 = 48

Hence, ' **48** ' is the correct answer.

---

2. Answer: c

Explanation:

The correct mirror image of the given figure when the mirror is placed to the right side of the figure is shown below:

QWERTY | YTЯƎWϘ

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

---

3. Answer: b

Explanation:

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

The logic followed here is:

C	E	R	T	I	F	I	E	D
X	V	I	G	R	U	R	V	W

Hence, '**XVIGRURVW**' is the correct answer.

---

4. Answer: c

Explanation:

The logic followed here is:

$(2^{nd}\ number)^2 = 1^{st}\ number + 9$

153 : 12

$\Rightarrow 12^2 = 144; 144 + 9 = 153.$

for, 205 : 14

$\Rightarrow 14^2 = 196; 196 + 9 = 205.$

Similarly, for ? : 17

$\Rightarrow 17^2 = 289; 289 + 9 = 298.$

Hence, the correct answer is **"298"** .

5. **Answer: d**

Explanation:

The logic followed here is:
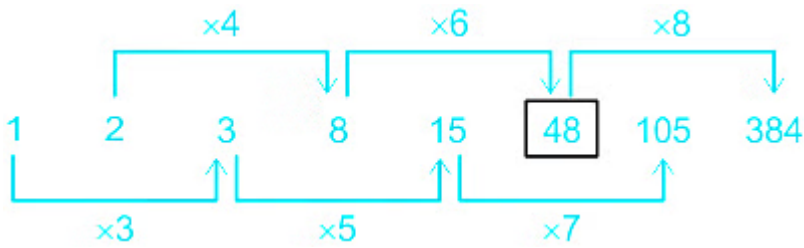
Hence, ' **48** ' is the correct answer.

6. **Answer: d**

Explanation:

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

The logic followed here is:

-

$$\begin{array}{ccc} D & G & K \\ \uparrow & \uparrow & \uparrow \\ \downarrow & \downarrow & \downarrow \\ W & T & P \\ -2 & -2 & -2 \end{array}$$

Similarly,

-

$$H \quad T \quad P$$
$$\uparrow\downarrow \quad \uparrow\downarrow \quad \uparrow\downarrow$$
$$S \quad G \quad K$$
$$-2 \mid \quad -2 \mid \quad -2 \mid$$
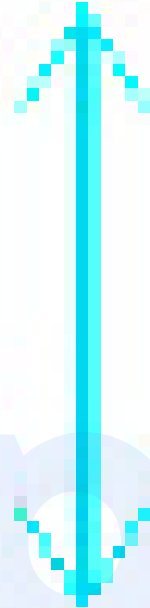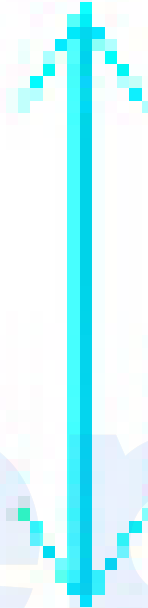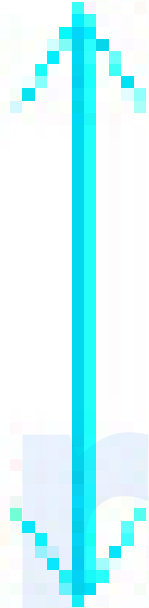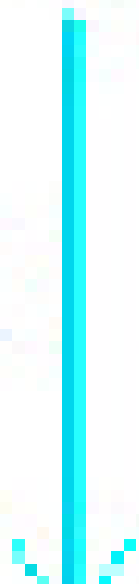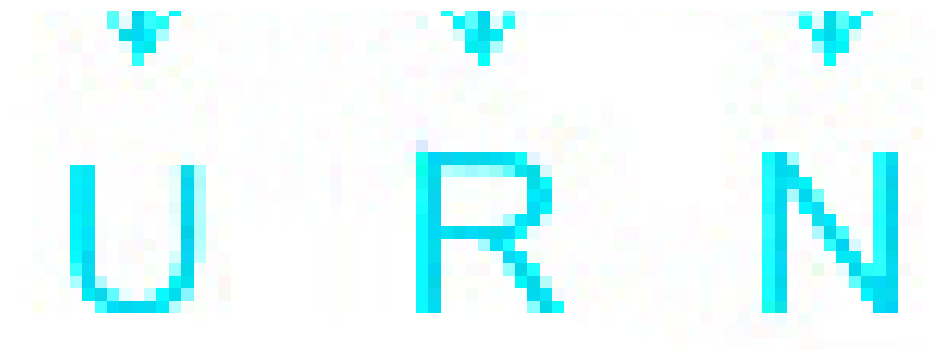
Hence, '**QEI**' is the correct answer.

---

7. Answer: b

Explanation:

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

The logic followed here is:

1. UQN → U − 4 = Q; Q − 3 = N
2. GCY → G − 4 = C; C − 4 = Y
3. JFB → J − 4 = F; F − 4 = B
4. OKG → O − 4 = K; K − 4 = G

Hence, ' **UQN** ' is the odd one out.

---

8. Answer: d

Explanation:

The least possible Venn diagram is:
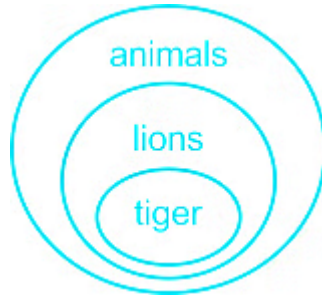
Conclusions:

Ⅰ. All tigers are animals. → **Follows** (As, All tigers are lions and All lions are animals)

Ⅱ. No tigers is a bird. → Do not follow (As, bird is not given in the statement, the relation between bird and tiger cannot be determined)

Hence, **only conclusion I follow** s.

---

9. ### Answer: c

Explanation:

The logic followed here is:

$$E \xrightarrow{+1} F \xrightarrow{+1} G \xrightarrow{+1} H \xrightarrow{+1} I$$

$$F \xrightarrow{+1} G \xrightarrow{+1} H \xrightarrow{+1} I \xrightarrow{+1} J$$

$$J \xrightarrow{+1} K \xrightarrow{+1} L \xrightarrow{+1} M \xrightarrow{+1} N$$
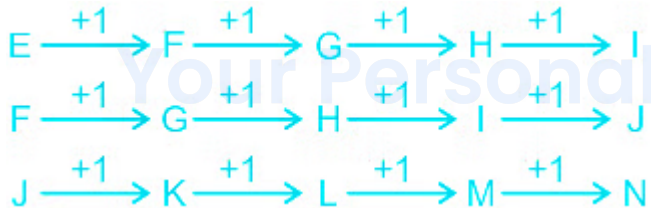
Hence, '**IJN**' is the correct answer.

---

10. ### Answer: b

Explanation:

The paper when unfolded will appear as shown below:
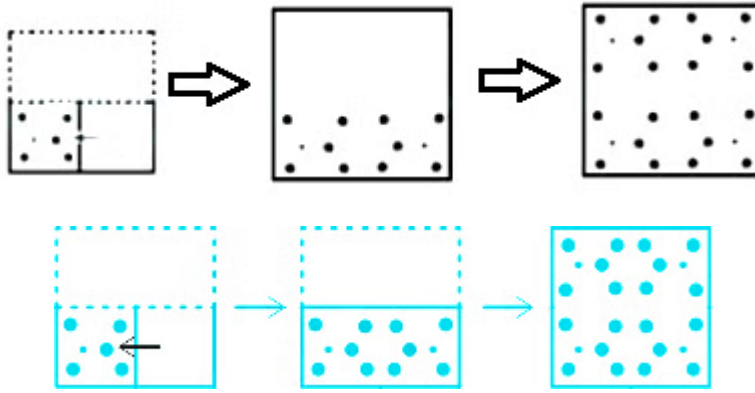
Hence, ' **option 2** ' is the correct answer.

---

11. Answer: a

Explanation:

The correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary is:

4. **Cera** mic

3. **Cereb** ral

5. **Cerem** ony

1. **Certa** in

2. **Certi** fy

Hence, '**4, 3, 5, 1, 2**' is the correct answer.

---

12. Answer: a

Explanation:

The logic followed here is:

- 'Chair' is related to 'Wood' → Chair is made up of wood.

Similarly,

- ' Blanket' is related to '_ _ _ _ _ _' → Blanket is made up of wool.

Hence, '**Wool**' is the correct answer.

---

13. **Answer: d**

Explanation:

Given equation: 30 + 28 − 34 ÷ 2 × 4 = 2

1. 28 and 34

30 + 34 −<u>28 ÷ 2</u> × 4 = 2

⇒ 30 + 34 −<u>14 × 4</u>= 2

⇒ <u>30 + 34</u>− 56 = 2

⇒ 64 − 56 = 2

⇒ 8 ≠ 2

2. 34 and 4

30 + 28 − 4 ÷ 2 × 34 = 2

⇒ 30 + 28 −<u>4 ÷ 2</u> × 34 = 2

⇒ 30 + 28 −<u>2 × 34</u>= 2

⇒ <u>30 + 28</u>− 68 = 2

⇒ 58 − 68 = 2

⇒ −10 ≠ 2

3. 30 and 34

34 + 28 −<u>30 ÷ 2</u> × 4 = 2

⇒ 34 + 28 −<u>15 × 4</u>= 2

⇒ <u>34 + 28</u>− 60 = 2

⇒ 62 − 60 = 2

⇒ 2 = 2

4. 4 and 2

30 + 28 −<u>34 ÷ 4</u> × 2 = 2

⇒ 30 + 28 −<u>8.5 × 2</u> = 2

⇒ <u>30 + 28</u>− 17 = 2

⇒ 58 − 17 = 2

⇒ 41 ≠ 2

Hence, '**30 and 34**' is the correct answer.

14. **Answer: b**

Explanation:

The logic followed here is:

Hence, ' **10** ' is the correct answer.

15. **Answer: c**

Explanation:

Eight friends **P, Q, R, S, T, U, V and W** are sitting around a circular table facing the centre.
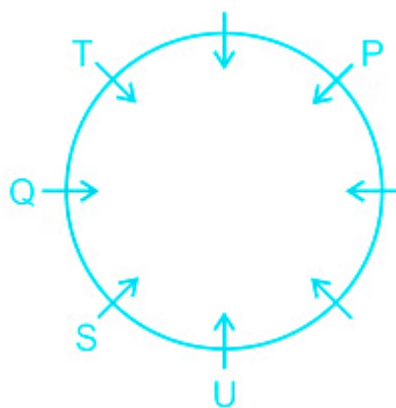
1. T is third to the left of U.
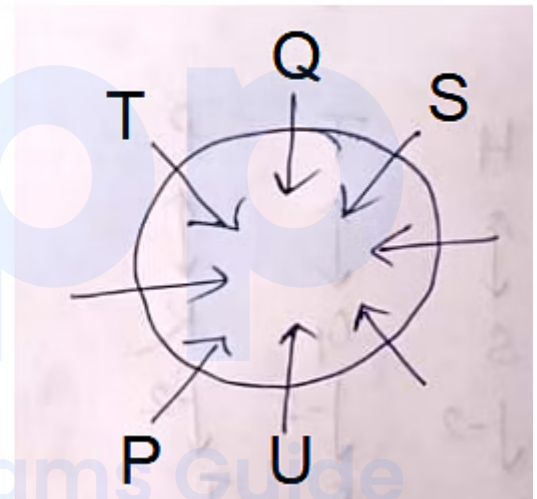
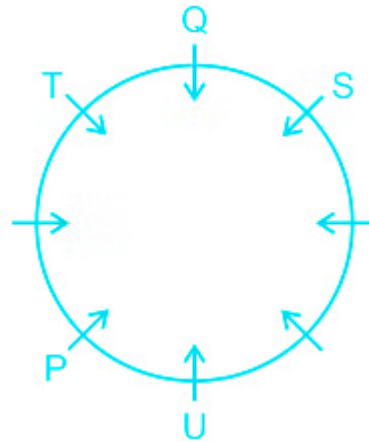2. Only Q is between S and T.
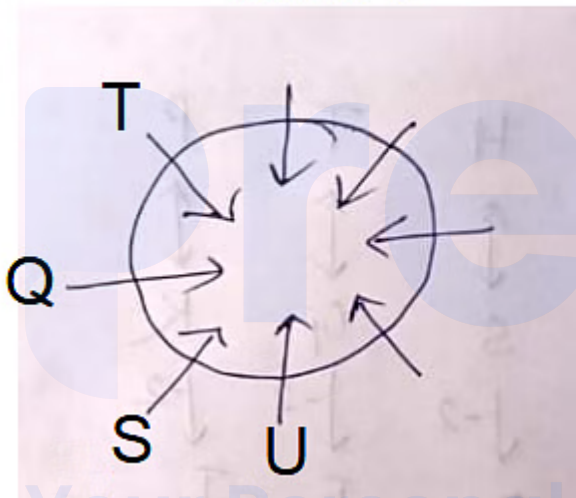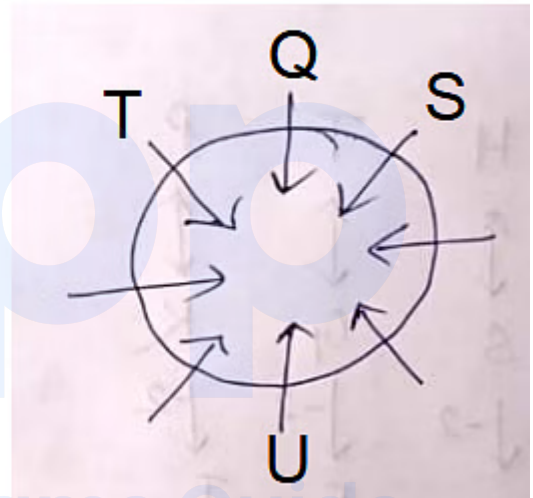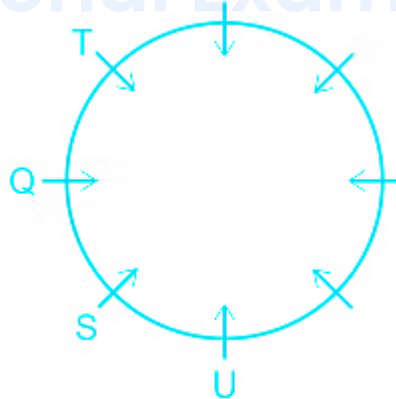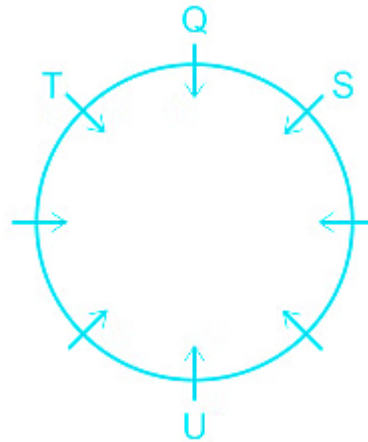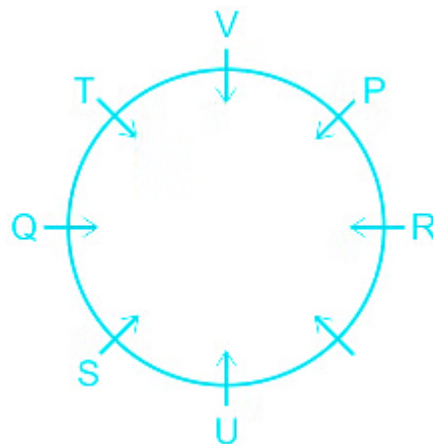
3. P is fourth to the left of S.
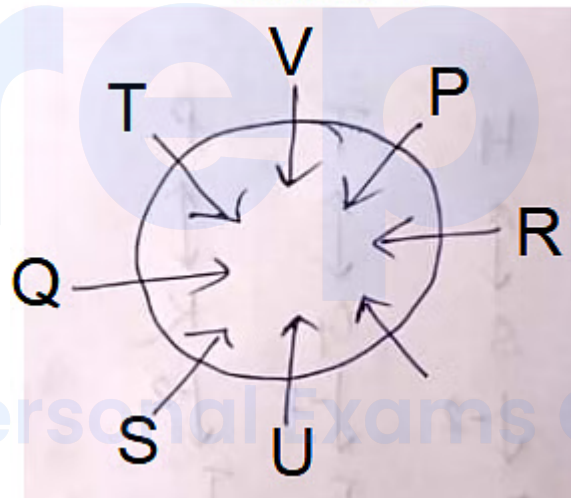
Case I:
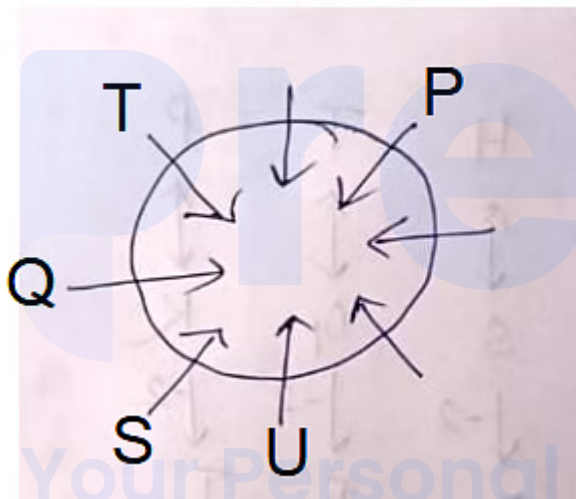
Case II:

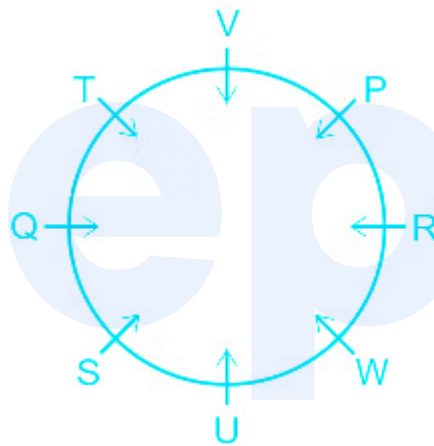4. V is second to the right of R.

The above condition cannot be satisfied in Case II, so it is eliminated.

Case I:

As W is the only person left, it will occupy the vacant position.

Case I:
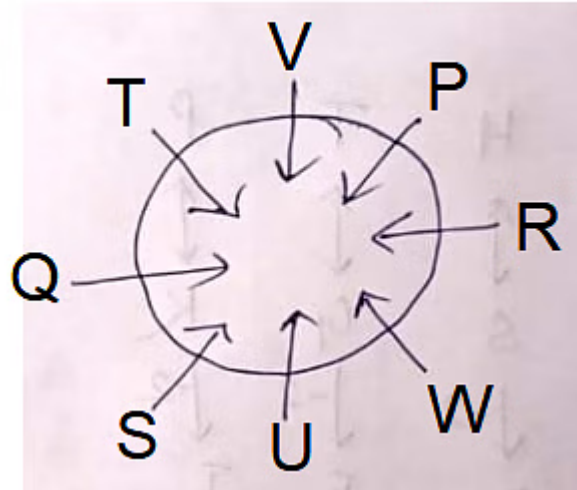
Clearly, V is is sitting between P and T.

Hence, ' **V**' is the correct answer.

---

16. **Answer: b**

Explanation:

Five friends are sitting in a row facing north.

1. G is sitting to the immediate right of I.

2. If H and I are sitting next to each other.

3. F is sitting to the immediate left of H, but to the immediate right of E.
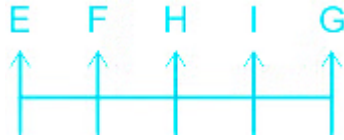
Clearly, H is sitting in the centre.

Hence, ' **H**' is the correct answer.

---

17. **Answer: a**

Explanation:

The logic followed here is:

'CANDLE' is coded as '52144113'

Similarly, for QUIET:

So, 'QUIET' will be coded as '02591271'.

Hence, the correct answer is **"Option 1"** .

---

18. **Answer: c**

Explanation:

Given sequence: E _ _ C D _ H J _ _ E H _ _ D

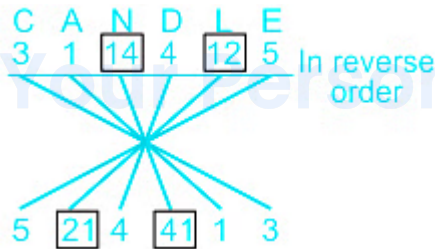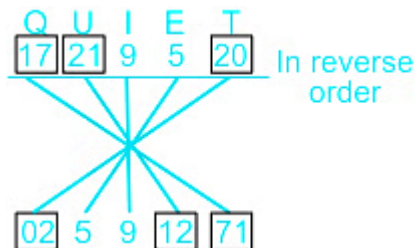1. H, E, C, D, C, J, C → E **H E** C D - **C** H J **D C** - E H **J C** D
2. H, J, C, E, C, E, H → E H J C D - **C** H J **E** C - E H **E H** D
3. H, J, E, C, D, J, C → E **H J** C D - **E** H J **C D** - E H **J C** D
4. H, C, E, J, D, C, E → E H C C D - E H J **J** D - E H C E D

- In option 3, EHJCD is repeated.

Hence, '**H, J, E, C, D, J, C**' is the correct answer.

---

19. **Answer: c**

Explanation:

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

The logic followed here is:

-

$$R \xrightarrow{-1} Q$$
$$O \xrightarrow{-1} N$$
$$S \xrightarrow{-1} R$$
$$E \xrightarrow{-1} D$$

Similarly,

-

$$M \quad I \quad N \quad D$$

$$-1 \quad -1 \quad -1 \quad -1$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$
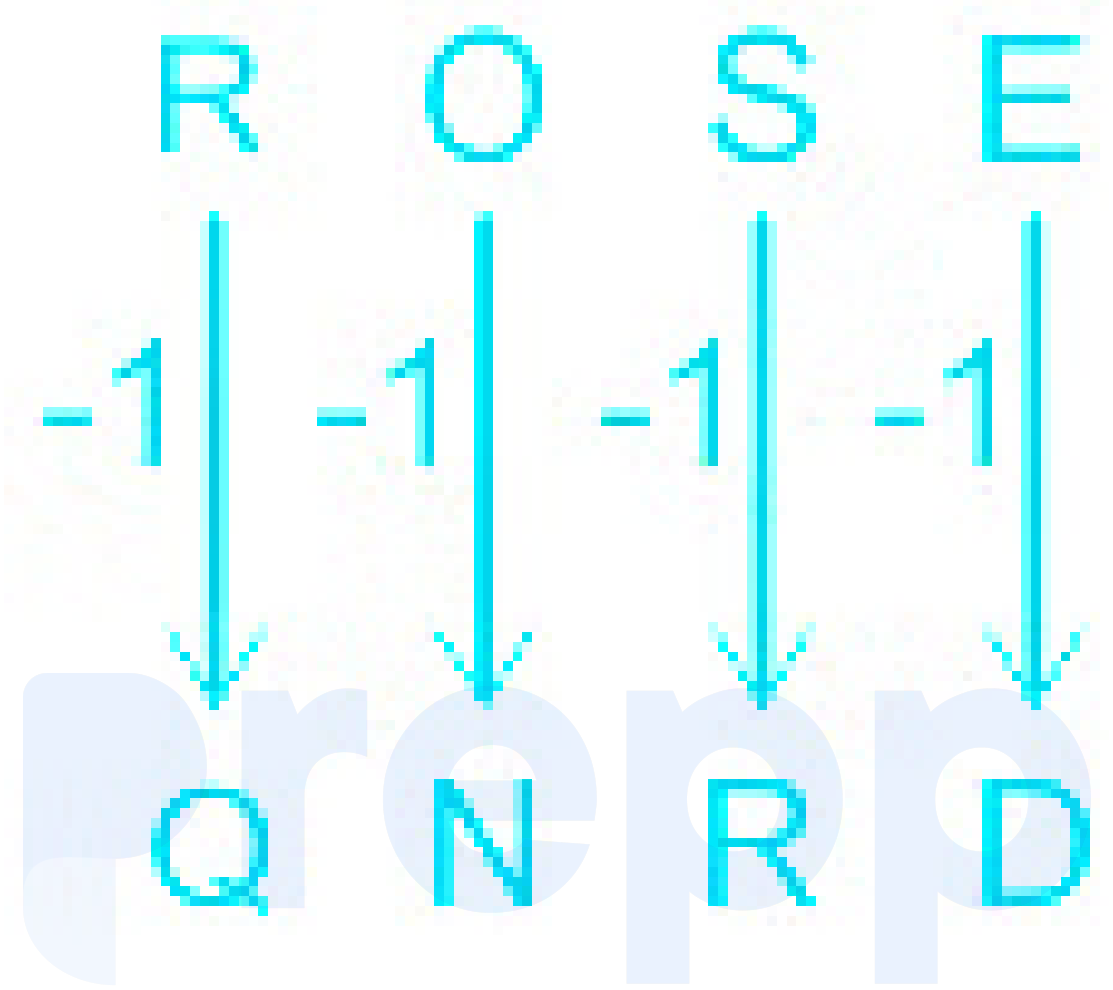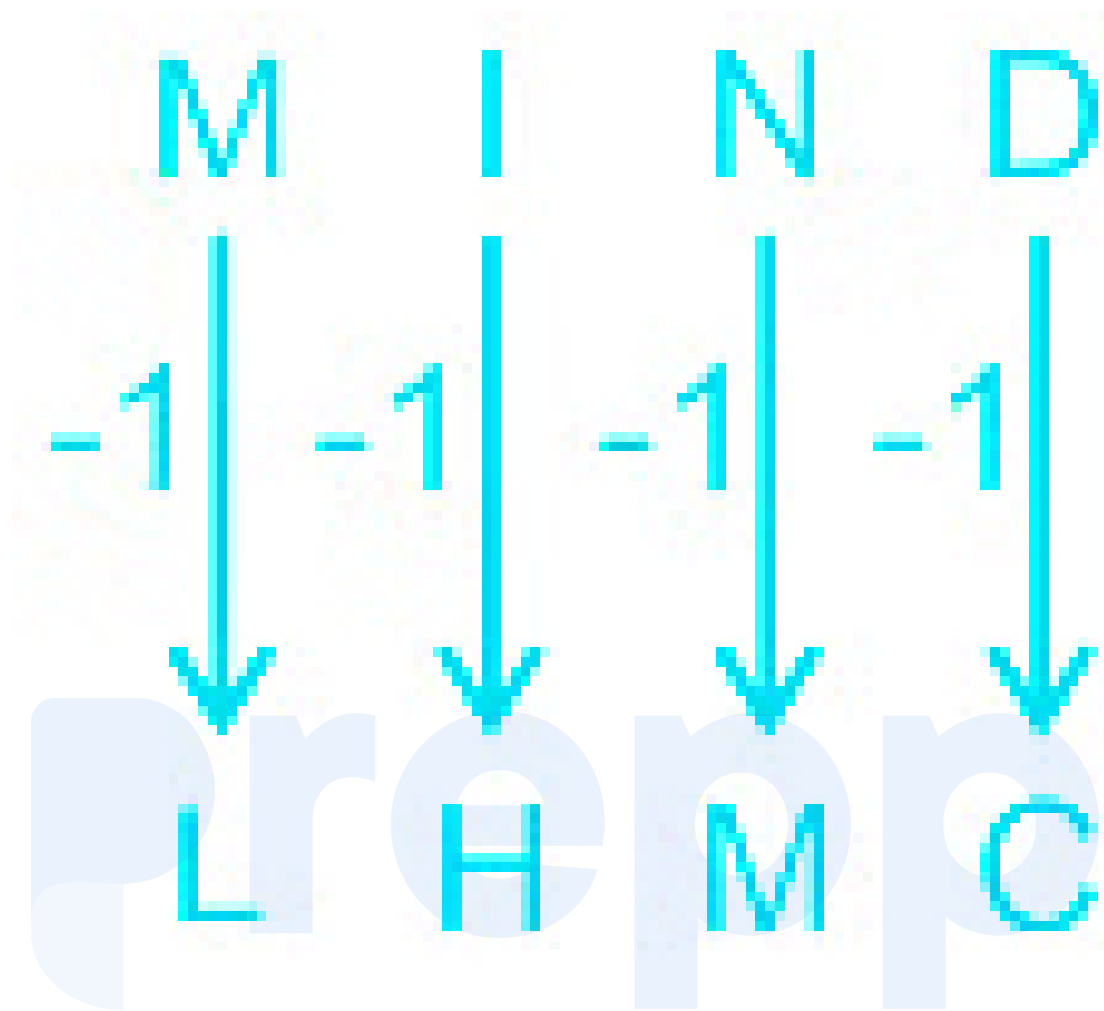
$$L \quad H \quad M \quad C$$

Hence, '**LHMC**' is the correct answer.

---

20. **Answer: a**

Explanation:

Let the number be 'a'.

According to question:

a + (a − 1) + 2(a − 1) = 61

⇒ a + a − 1 + 2a − 2 = 61

⇒ 4a − 3 = 61

⇒ 4a = 61 + 3

⇒ 4a = 64

⇒ a = 64 ÷ 4

⇒ a = 16

Hence, ' **16** ' is the correct answer.

---
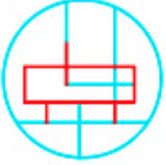
21. **Answer: d**

Explanation:

The image embedded in given figure is as shown below:

No.	Option	Question	Answer
1.			Not Embedded
2.			Not Embedded
3.			Not Embedded
4.			Embedded

Hence, ' option 4 ' is the correct answer.

22. **Answer: b**

Explanation:

Using the symbols in the table below, we can draw the following family tree:

Symbol in Diagram	Meaning
◯	Female
▢	Male
=	Married Couple
—	Siblings
│	Difference of a Generation
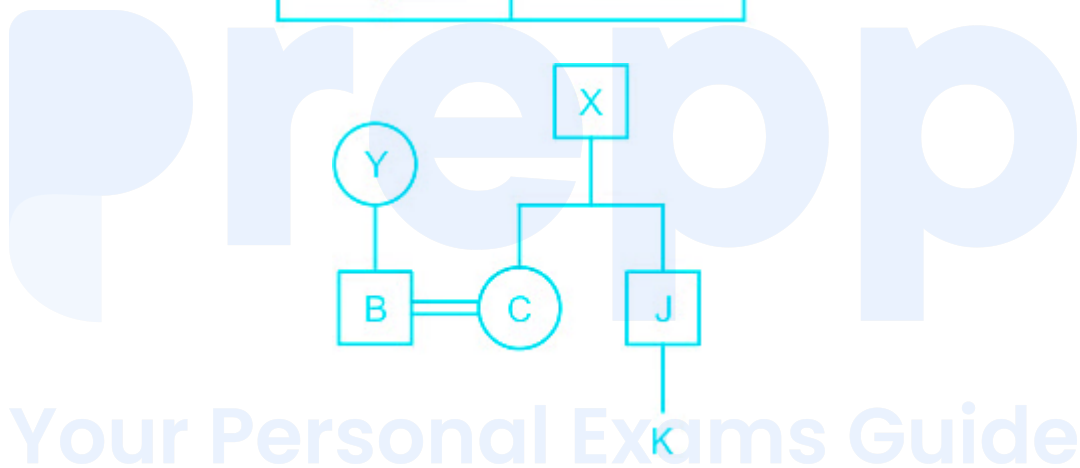
B is the brother-in-law of J.

Hence, **'brother-in-law'** is the correct answer.

---

23. **Answer: d**

Explanation:

The figure from among the given options that can replace the question mark (?) in the following series is shown below:

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

---

24. Answer: c

Explanation:

Explanation:
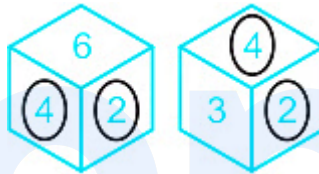
4 and 2 are the common faces i n 2nd and 3rd dice, so it is clear that 6 is opposite to 3.

Hence, ' **6**' is the correct answer.

---

25. Answer: d

Explanation:

Given:

15 students study both history and psychology.

22 students study history

and 32 students study psychology.

12 students who study only physics.

The possible Venn diagram for the given statement is:

Hostory   Physics

7   12

15

17

Psychology
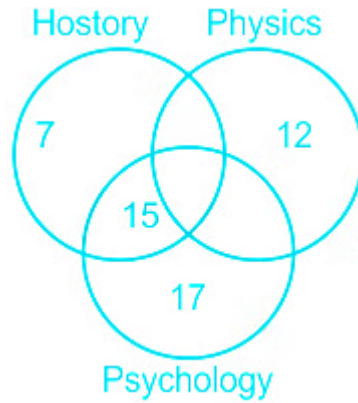
students study only history = 12,

students study only physics = 7.

So, the total number of students who study only history and only physics = 12 + 7 = 19.

Hence, the correct answer is **"19"** .

---

26. **Answer: d**

Explanation:

The correct answer is 299.

⭐ Key Points

- Constituent Assembly
    - A constituent assembly was first proposed by **M N Roy in 1934.**
    - The Constituent Assembly's momentous work of drafting the Constitution **took nearly three years** to complete.
    - It held **eleven sessions** over a total of **165 days** throughout this tim **e.**
    - **114 of those days were used to consider the** Draft Constitution.
    - According to the system advised by the **Cabinet Mission,** members were chosen by **indirect election** by the members of the **Provincial Legislative Assemblies.**

- Specifically, **93 members** represented the **Indian Princely States, 4 members** represented the **Chief Commissioners' Provinces**, and 292 members were chosen through the **Provincial Legislative Assemblies.**
- Thus, there would be **389 people** in the Assembly as a whole.
- A separate Constituent Assembly was established for **Pakistan** as a result of the **partition under the Mountbatten Plan of June 3, 1947.**
- Representatives of several Provinces ceased to be members of the Assembly.
- As a consequence, there were **299 members** left in the Assembly.

⭐ <u>Additional Information</u>

- The **Indian Constitution** is the **country's highest law.**
- It is the **world's longest-written national constitution.**
- On **November 26, 1949** , the Indian Constituent Assembly approved it.
- It went into effect on **January 26, 1950.**
- The **Government of India Act of 1935** was **superseded by the constitution** as the primary law governing the nation.
- The **Republic of India** replaced the Dominion of India.
- **Article 395** of the constitution was repealed by its framers to **secure constitutional autochthony.**
- **Republic Day** , which is observed on **January 26,** honours India's constitution.
- India is proclaimed to be a **sovereign, socialist, secular, and democratic republic** in the constitution.
- It also guarantees its citizens **justice, equality, and liberty** while working to foster **fraternity.**
- At the **Parliament House in New Delhi** , the **original 1950 constitution** is kept in a **nitrogen-filled case.**
- Th **e 42nd amendment act** , passed in **1976 during the Emergency** , added the phrases **"secular" and "socialist"** to the preamble.

---

27. **Answer: a**

Explanation:

The correct answer is<u>Volley Ball.</u>

⭐ <u>Key Points</u>

- **Cricket, rugby union, football, volleyball, athletics, and tennis** are among the most popular sports in Sri Lanka.
- Volleyball
    - **Volleyball** is the **national sport** of Sri Lanka.
    - The major volleyball regulatory body in Sri Lanka is called the **Sri Lanka Volleyball Federation (SLVF).**
    - **R. W. Camack,** then the **Colombo Y.M.C.A.'s Director of Physical Education,** brought volleyball to Sri Lanka in **1916.**
    - The Federation is composed of **99** associated organisations and is run by a **25-person honorary council.**
    - The current president of SLVF is **Kanchana Jayarathna** , the chairman of Sabaragamuwa Provincial Council and the current secretary general is **A. S. Nalaka** .
    - It is affiliated with the **Asian Volleyball Confederation** and the **Federation Internationale de Volleyball internationally.**
    - It has the approval of the **National Olympic Committee (NOC) of Sri Lanka.**

⭐ <u>Additional Information</u>

- Sri Lanka:
    - National bird - **Ceylon junglefowl**
    - National language - **Sinhala / Tamil**
    - National flower - **Water lily flower**
    - National tree - **Ceylon ironwood**
    - National butterfly - **Sri Lankan birdwing**
    - National anthem - **Sri Lanka Matha**
    - President - **Ranil Wickremesinghe (** succeeded Gotabaya Rajapaksa)
    - Prime minister - **Dinesh Gunawardena**

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28. **Answer: b**

Explanation:

The correct answer is <u>**Project Dolphin.**</u>

⭐ <u>Key Points</u>

- Project Dolphin
    - **2019** saw the **National Ganga Council** give preliminary clearance to **Project Dolphin.**
    - Project Dolphin is one of the activities planned as part of **Arth Ganga** , the government's ambitious **inter-ministerial initiative** .
    - Project Dolphin will resemble **Project Tiger** , which helped boost the number of tigers.
    - The **Ministry of Environment, Forests and Climate Change** will presumably implement it.
    - The **Gangetic Dolphin** , a national aquatic species and an indicator species for the **Ganga River** that flows through numerous states, requires a **special conservation program.**
    - **Indicator species** are living things, typically **bacteria or plants,** that act as **proxies** for the local environment.
    - Because the **Gangetic dolphin** is at the **top of the food chain,** preserving the species and its habitat will guarantee the **survival of the aquatic life** in the river.
    - A **dolphin conservation campaign** was started in **2016 by the National Mission for Clean Ganga (NMCG)** to guarantee the long-term survival of dolphins and other river wildlife.

⭐ <u>Additional Information</u>

- Namami Gange :
    - Namami Gange Programme is an **Integrated Conservation Mission.**
    - It is approved as a ' **Flagship Programme'** by the Union Government in **June 2014.**
    - It has a budget outlay of **Rs.20,000 Crore,**
    - The goal of effective **abatement of pollution, conservation, and rejuvenation of the National River Ganga.**

- **The main pillars** of the Namami Gange Programme are:-
  - Sewerage Treatment Infrastructure
  - River-Front Development
  - River-Surface Cleaning
  - Bio-Diversity
  - Afforestation
  - Public Awareness
  - Industrial Effluent Monitoring
  - Ganga Gram

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29. Answer: d

Explanation:

The correct answer is **Tamil Nadu.**

⭐ **Key Points**

- The first and only state in India to require rooftop rainwater collecting is **Tamil Nadu.**
- All **new building** s must now have rain water harvesting structures thanks to changes made to **Section 215(a) of the Tamil Nadu District Municipalities Act, 1920,** and the **1973 Building Rules.**
- Rainwater Harvesting:
  - The process by which rainwater is **collected from roof catchments** and **stored in reservoirs** is known as rooftop rain water harvesting.
  - By usin **g artificial recharge technique** s, collected rainwater can be stored in **subsurface ground water reservoirs** to provide the demands of the family through tank storage.

⭐ **Additional Information**

- The **villages of Arittapatti and Meenakshipuram i** n the Madurai district have recently been designated as the **first biological heritage site in Tamil Nadu** by the state government's recent notice.

- The **first multi-modal logistics park (MMLP) in India** will be built by **Reliance Industries Limited (RIL)** close to Chennai, Tamil Nadu.
- It is a **Rs.1,424** project.
- It will be implemented under the **PM Gati Shakti National Master Plan**, which was launched in **October 2021.**
- The model concession agreement for this project is on a **Design, Build, Finance, Operate, and Transfer (DBFOT) model.**
- The project has a **45-year total concession period.**
- With an expected developer investment of **Rs.783 crore,** the MMLP would be completed in **three phases.**
- By **2025, the initial phase** will be finished.

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30. **Answer: d**

Explanation:

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

⭐ <u>Key Points</u>

- The mosquito **genus Aedes** was first discovered in the **tropical and subtropical regions.**
- **Johann Wilhelm Meigen** gave the genus its name in **1818.**
- The generic name, **aedes,** means **"odious" or "unpleasant"** in Ancient Greek.
- **Dengue virus, yellow fever virus, chikungunya virus, and Zika virus** are all known to be transmitted by Aedes aegypti.
- They have **distinct markings** on their **body and legs** in **black and white.**
- They only **bite during the daylight** when they are active.

⭐ <u>Additional Information</u>

- Anopheles:
  - **J. W. Meigen** initially identified and named the mosquito genus **Anopheles in 1818.**
  - **Malaria** can only be spread by Anopheles mosquitoes.
- Culex:

- ○ Culex are also referred to as **common house mosquitoes.**
  - ○ The viruses that cause **West Nile fever, St. Louis encephalitis, Japanese encephalitis, as well as viral infections of birds and horses** , are conveyed mostly by these carriers.
- • **Mansonides:**
  - ○ Mansonides carries **filarial worm** s and produces **larvae and pupae** that get their oxygen from plants submerged in water.
  - ○ **Venezuelan equine encephalitis** is known to be spread by Mansonia titillans in the **southern United States, Central America, and South America.**

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31. Answer: b

Explanation:

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

⭐ <u>Key Points</u>

- • Narmada
  - ○ The Narmada River is also referred to as the **Reva,** and it was formerly called **Narbada or Nerbudda** in English.
  - ○ It is th **e fifth-longest river** in India and the **longest river that flows west** altogether.
  - ○ It is also the state of **Madhya Pradesh's greatest flowing river.**
  - ○ This river traverses the **Indian states of Gujarat and Madhya Pradesh.**
  - ○ It is also known as the **"Life Line of Madhya Pradesh and Gujarat."**
  - ○ The Narmada River rises from the **Amarkantak Plateau in Anuppur district Madhya Pradesh.**
  - ○ It runs westward across a distance of **1,312 km,** forming the **historic border between North India and South India** , before draining through the **Gulf of Khambhat into the Arabian Sea.**

⭐ <u>Additional Information</u>

- • Krishna:

- It has its beginnings in the **Western Ghats** , close to **Mahabaleshwar, in Maharashtra,** at a height of roughly **1,300 meters.**
- The Krishna is the second largest east-flowing Peninsular river which rises near Mahabaleshwar in Sahyadri. Its total length is **1,401 km.**
- The **Koyna, the Tungbhadra** , and the Bhima are its major tributaries
- It travels east from Mahabaleshwar to the **town of Wai** before emptying into the **Bay of Bengal.**
- It passes through the Indian states of **Maharashtra, Karnataka, Andhra Pradesh, and Telangana.**

- **Kaveri:**
  - It originates at T **alakaveri in the Brahmagiri range in the Western Ghats, Kodagu district of the state of Karnataka** , at an elevation of **1,341** meters above mean sea level.
  - It then travels for about **800 kilometers** until emptying into the **Bay of Bengal.**
- **Godavari:**
  - **Trimbakeshwar, in Nashik, Maharashtra, i** s where it originates.
  - It drains the states of **Maharashtra, Telangana, Andhra Pradesh, Chhattisgarh, and Odisha** as it travels 1,465 kilometers east.
  - In the end, the river flows into the **Bay of Bengal.**

32. **Answer: d**

Explanation:

The correct answer is 1920.

⭐ Key Points

- The **Second World Congress of the Communist Third International**(1920) laid the foundation for the creation of an **émigré Communist Party of India.**
- A subcommittee called the **"Small Bureau"** was established by the **Comintern Executive Committee (ECCI)** to start the procedure.
- In order to **combat imperialism in Asia,** the Bureau organized the **First Congress of the Peoples of the East in Baku** in **September 1920.**

- The **Communist Party of India** was subsequently founded on **October 17, 1920, in Tashkent.**
- The **seven members** were **M. N. Roy, Evelyn Roy-Trent, Abani Mukherjee, Rosa Fitingov, Mohammad Ali, Mohamad Shafiq, and Acharya.**
- As a result of the election, **Shafiq** was chosen as the party's secretary, **Roy** as the secretary of the bureau located in socialist Turkestan, and **Acharya** as the chairman who approved the minutes.
- The organization chose **"The Indian Communist Party"** as its name at its **inaugural meeting** on **October 17.**
- The **Comintern's guiding principles** were also endorsed at the inaugural conference, and it was determined to develop a **CPI program "tailored to the conditions of India."**
- The **Comintern's membership process and affiliation** were the subjects of an initial discussion.
- The singing of " **The International"** marked the end of the meeting.

33. **Answer: c**

Explanation:

The correct answer is <u>13 th .</u>

⭐ <u>Key Points</u>

- The **Sangita-Ratnakara** is **Sanskrit** for **"Ocean of Music and Dance."**
- It is one of the most significant Indian **texts on musicology.**
- In the **thirteenth centur** y, **Sarngadeva** wrote it in **Sanskrit.**
- The author served in **King Singhana II's court** during the **Yadava dynasty** , whose seat of government was in **Devagiri, Maharashtra** .
- There are **seven chapters** in the text.
- **Svaragatadhyaya, Ragavivekadhyaya, Prakirnakadhyaya, Prabandhadhyaya, Taladhyaya, and Vadyadhyaya,** the first six chapters, cover a variety o **f** musical topics and instruments.
- **Nartanadhyaya's** final chapter discusses **dance.**

34. **Answer: a**

Explanation:

The correct answer is <u>Sawai Raja Jai Singh.</u>

⭐ <u>Key Points</u>

- **Jai Singh II** was also referred to as **Sawai Jai Singh.**
- He was the **29th Kachwaha Rajput king** to lead the **Amber Kingdom.**
- He later founded the **fortified city of Jaipur** and made it his capital.
- He was born in **Amber,** the **Kachwaha Rajputs capital.**
- When his father, **Raja Bishan Singh,** passed away on **December 31, 1699** , he was 11 years old and took over as the **monarch of Amber.**
- In **1722,** Sawai Jai Singh received the **subadari of Agra** and made **Jaipur the capital** of his empire.
- He was appointed to govern **Malwa three** times **between 1714 and 1737.**

⭐ <u>Additional Information</u>

- **Sawai Raja Jagat Singh:**
  - After **Pratap Singh's passing** , Jagat Singh II occupied the **throne of Jaipur.**
  - In theyear **1803,** Jagat Singh was **crowned.**
- **Jahandar Shah:**
  - He was the **ninth Mughal Emperor.**
  - He reigned in the **years 1712–1713.**
  - He was **Bahadur Shah's son.**
- **Shahjahan** :
  - He was the **Mughal Empire's fifth emperor.**
  - He ruled from January **1628 until July 1658.**
  - He was **Jahangir's third son** .

35. **Answer: d**

Explanation:

The correct answer is<u>Navneet Munot.</u>

⭐ <u>Key Points</u>

- The **CEO and MD** of HDFC Asset Management Company Limited is **Mr. Navneet Munot.**
- In the financial markets, Mr. Munot has more than **28 years of experience** .
- He has held the positions of **Chief Investment Officer** at **SBI Mutual Funds** , E xecutive Director and Head of Multi-Strategy Boutique at **Morgan Stanley Investment Management** , and CIO for fixed income and hybrid funds at **Birla Sun Life Mutual Funds** .

⭐ <u>Additional Information</u>

- VK Yadav:
  - He is the **administrator of Delhi Gymkhana Club Limited.**
  - He is the **Ex Chairman & CEO** of **Railway Board, Indian Railways.**
- TN Manoharan :
  - He is   **former president** of the **Institute of Chartered Accountants of India** and **Ex-chairman of Canara Bank.**
- Rajiv Kumar:
  - He is the**25th Chief Election Commissioner of India.**

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36. Answer: b

Explanation:

The correct answer is <u>Satyendranath Tagore.</u>

⭐ <u>Key Points</u>

- **Satyendranath Tagore** (1 June 1842 – 9 January 1923):
  - He was a **civil servant, poet, composer, writer, social reformer, and linguist** from **Kolkata, West Bengal.**

- He also studied **music and composition** .
- In **1863,** he was the first Indian to be appointed an officer in the **Indian Civil Service.**
- He joined the service in **1864.**
- He was a **Bramho Samaj member.**
- His **"Mile Sabe Bharat Santan, Ektan Gago Gaan,**" a patriotic song in the Bengali language, was acclaimed as **India's first national anthem.**

⭐ Additional Information

- Nibaran Chandra Mukherjee:
  - He was a **Brahmo reformer** in India during the **19th century.**
- Pingali Venkayya (2 August 1876/8 – 4 July 1963):
  - He was a **Gandhian** and an **Indian freedom fighter.**
  - He was the **designer of the flag** that served as the model for the Indian National Flag.
- Bipin Chandra Pal (7 November 1858 – 20 May 1932):
  - He was a **social reformer, orator, writer, and freedom fighter** for the Indian independence struggle.
  - He was one of the **"Lal Bal Pal" trio'**s three members.
  - Along with **Sri Aurobindo,** Pal was one of the primary **designers of the Swadeshi movement.**

37. **Answer: d**

Explanation:

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

⭐ Key Points

- A type of **hand-painted or block-printed cotton textile** known as **kalamkari.**
- It is made in the **Iranian city of Isfahan** and the **Indian state of Andhra Pradesh.**
- In the **twenty-three stage process of Kalamkari** ,only natural dyes are employed.

- In India, there are two distinct Kalamkari art styles: the **Machilipatnam style and the Srikalahasti style.**
- The **"kalam" or pen** is used to draw the subject and **fill in the colors** freehand in the Srikalahasti style of Kalamkari.
- This **artistic movement** flourished in **temples** that focused on **forging distinctive religious identities.**
- It can be seen on **scrolls, temple hangings, chariot banners,** and representations of **gods and scenes** from Hindu epics.
- The fashion owes its current **popularity to Kamaladevi Chattopadhyay,** the first chairman of the All India Handicrafts Board.

⭐ Additional Information

- **Nirmal Painting:**
    - This particular kind of ancient painting uses **herbs and minerals as dyes** .
    - **Andhra Pradesh** is where it is done.
    - The **golden color,** which is generated from a **combination of gums and herbs,** is the most prevalent color utilized in this picture.
    - The **Mughals** were originally exposed to this painting by **traders,** who were drawn to its beauty and supported it by bringing **many artisans to the capital.**

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38. **Answer: a**

Explanation:

The correct answer is <u>20% to 30%.</u>

⭐ Key Points

- The **National Clean Air Programme** was launched by the **central government.**
- Its target is to achieve a **20% to 30% reduction in Particulate Matter concentrations** by **2024,** keeping **2017** as the **base year** for the comparison of concentration.
- It was introduced as a **long-term, time-bound, national-level strategy** to address the **air pollution** problem across the country in a comprehensive

manner.

- Based on the **Air Quality data** from 2014–2018, **122 non-attainment cities** have been identified nationwide **under NCAP.**
- The action plans tailored to each city include, among other things, steps to improve the **monitoring system** , cut down on **industrial and vehicle emissions, raise public awareness, etc.**
- **Steering Committee, Monitoring Committee, and Implementation Committee** are the committees at the **central and state leve** l that routinely monitor the **implementation of city-specific action plans.**
- **State Pollution Control Boards** monitor **city air quality** and occasionally release their findings.
- For effective monitoring, several Smart Cities have set up **Integrated Command and Control Centres (ICCCs)** that are also connected to **Air Quality Monitors (AQMs).**

⭐ <u>Additional Information</u>

- **Central Pollution Control Board:**
- The Central Pollution Control Board (CPCB) is a **statutory organization.**
- It was established in **September 1974** in accordance with the **1974 Water (Prevention and Control of Pollution) Act.**
- The **Air (Prevention and Control of Pollution) Act of 1981** gave the CPCB the authority and responsibility to carry out these duties.
- It performs the functions of a **field formation and offers technical assistance** to the Ministry of Environment and Forests in accordance with the **1986 Environment (Protection) Act.**
- The CPCB's primary responsibilities include
    - promoting the **cleanliness of streams and wells** in various States through the **prevention, control, and abatement of water pollution, a** nd
    - enhancing **air quality** and preventing, controlling, or abating **air pollution** nationwide.

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39. **Answer: d**

Explanation:

The correct answer is <u>12 October 2020.</u>

⭐ <u>Key Points</u>

- Through a **virtual ceremony, Prime Minister Narendra Modi** distributed a **commemorative coin worth 100 rupees** in memory of **Vijaya Raje Scindia.**
- **The Rajmata of Gwalior,** Vijaya Raje Scindia, is a well-known figure.
- The coin was released on **October 12** to commemorate **Vijaya Raje Scindia's 100th birthday.**
- She was a prominent **Jana Sangh figure** and a **BJP founding member.**
- **Scindia,** who hails from a royal dynasty, was a prominent representative of the **saffron party** and an outspoken supporter of its fundamental **Hindutva principles.**
- The special commemorative coin was minted by the **Finance Ministry** as a part of these celebrations.

⭐ <u>Additional Information</u>

- On **September 1, 2021** , Prime Minister Narendra Modi issued a special commemorative **coin worth Rs 125.**
- It was issued to commemorate the **125th birthday of Srila Bhaktivedanta Swami Prabhupada,** the founder of the I **nternational Society for Krishna Consciousness (ISKCON).**

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40. **Answer: d**

Explanation:

The correct answer is <u>2020.</u>

⭐ <u>Key Points</u>

- Krishi UDAN Scheme
  - **Krishi UDAN Scheme** was introduced in **August 2020** on both **national and international routes.**

- It was launched to **help farmers transport** their **agricultural products** and increase the value realization of their output.
- The program intends to **guarantee smooth, affordable, timely air transportation** for all agricultural produce, especially those coming from the **Northeast, hilly regions, and tribal area** s of the nation.
- The **Ministry of Commerce and Industry's Invest India** ,India's national Investment Promotion & Facilitation Agency , and **AAI Cargo Logistics and Allied Services Company Limited** (AAICLAS), a 100% subsidiary of the Airports Authority of India, provided assistance in developing the **improved version** of the Krishi UDAN scheme.
- The goals are to carry **agri-produce** , which includes **horticulture, fishery, livestock, and processed goods** , using an increased proportion of air.

⭐ Additional Information

- Budget 2020:
  - **Nirmala Sitharaman** , India's finance minister, unveiled the **country's 2020 Union Budget on February 1** .
  - This is the **second budget** of the **second term** of the NDA administration, led by **Narendra Modi.**
  - A day before the budget, on **January 31, 2020,** the **Economic Survey for the 2019–2020** fiscal year was made public.
- Budget 2022:
  - The objectives of the budget for **FY2022–23** are intended to further India's aspirations in **Amrit Kaal** as it approaches the **100th anniversary** of its independence.
  - In **2022–23** , the government plans to spend **Rs 39,44,909 crore,** a **4.6% increase** over the updated projection for 2021–22.
  - The **total expenditure for 2021–22** is anticipated to be **8.2% higher** than anticipated in the budget.
  - In **2022–2023** , the government forecasts a **nominal GDP growth rate of 11.1%.**
  - The **target revenue deficit for 2022–2023** is **3.8% of GDP,** which is less than the previously estimated **4.7% for 2021–2022**
  - The **target fiscal deficit for 2022–23 is 6.4% of GDP,** which is less than the previously estimated **6.9% for 2021–22.**

- Interest expenditure at Rs 9,40,651 crore is estimated to be **43% of revenue receipts.**
- The **Ministry of Communications (93%), the Ministry of Road Transport and Highways (52%), and the Ministry of Jal Shakti (25%),** are among the top 13 ministries with the biggest allocations.

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41. Answer: b

Explanation:

The correct answer is**Palkonda Hills.**

⭐ **Key Points**

- Palkonda Hills
    - The **Palkonda Hills** are a group of hills in the **Andhra Pradesh** state of **southern India** that are a part of the **Eastern Ghats.**
    - They extend from **northwest to southeast,** coming to a head at the **Tirupati pilgrimage site.**
    - The **Telugu terms pal,** which means **milk,** and **Konda,** which means **hill** , are combined to form the name **Palkonda,** which means **"milk hills. "**
    - They got their name because they had **pastureland there.**
    - These hills rise to an **average height of 2,000 feet.**
    - The range's highest peak is at **Buttaid** , where it rises to a height of **3,060 feet.**

⭐ **Additional Information**

- **Anaimalai Hills** :
    - The **Elephant Mountains** are another name for the Anaimalai Hills.
    - These are a **group of mountains** in **Kerala's southern Western Ghats.**
- **Nilgiri Hills:**
    - In **India's western Tamil Nadu, southern Karnataka, and eastern Kerala** , the Nilgiri Mountains are a portion of the Western Ghats.
    - They connect the **Western Ghats** with the **Eastern Ghats** and are situated at the intersection of **three states.**

- Mahabaleshwar Hills:
  - Mahableshwar is the best hill station in **Maharashtra** .
  - It is situated about **4500 ft. above sea leve** l on the **Sahyadri spurs.**

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42. Answer: b

Explanation:

The correct answer is <u>1972.</u>

⭐ <u>Key Points</u>

- The **Ministry of Finance, Government of India,** owns General Insurance Corporation of India Limited.
- It is a **central public sector organization.**
- On **November 22, 1972** , it was incorporated under the **Companies Act of 1956.**
- GIC Re has its registered office and headquarters in **Mumbai.**
- Up until the Indian insurance market was opened to **foreign reinsurance players in late 2016** , including firms from **Germany, Switzerland, and France,** it was the only **nationalized reinsurance company** operating there.
- Shares of GIC Re are traded on the **National Stock Exchange of India Ltd. and BSE Limited.**
- **Devesh Srivastava** is the **Chairman-and-Managing Director** of GIC.

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43. Answer: c

Explanation:

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

⭐ <u>Key Points</u>

- In **Srinagar, Jammu and Kashmir** , India, there is a **tulip garden** called the **Indira Gandhi Memorial Tulip Garden.**

- With a total **area of around 30 acres,** it is **Asia's largest tulip garden.**
- It is located at the **foot of the Zabarwan mountain range** and was constructed on a slope in a **terraced style with seven terraces** and views of the **Dal Lake.**
- The garden was **established in 2007** with the intention of **enhancing Kashmir Valley tourism and floriculture.**
- It was formerly known as **Siraj Bagh.**
- There ar **e 46 different types of flower** s in addition to **tulips, including hyacinths, daffodils, and ranunculus** that were also imported from Holland.
- The tulip garden is home to around **68 varieties of tulips.**
- The **Government of Jammu and Kashmir hosts the Tulip Festival** every Spring to promote tourism.

---

44. Answer: c

Explanation:

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

⭐ <u>Key Points</u>

- The winner of **Miss India USA 2021** is **Michigan native Vaidehi Dongre.**
- **Georgia's Arshi Lalani** was named as the **first runner up.**
- **North Carolina native Mira Kasari** finished as the **second runner up** in the competition.
- **Vaidehi Dongre** is a graduate from the **University of Michigan** and currently works as a **business development manager.**
- She was reared in the US but was **born in India.**

⭐ <u>Additional Information</u>

- **Aarya Walvekar,** an Indian-American teenager from **Virginia,** was crowned **Miss India USA in 2022** at the annual beauty pageant.

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45. Answer: d

Explanation:

The correct answer is <u>Mumbai Indians.</u>

⭐ <u>Key Points</u>

- A **men's T20 franchise cricket league** in India is known as **Indian Premier League.**
- **Ten teams** representing **seven Indian cities** and **three Indian states** compete in it every year.
- The **Board of Control for Cricket in India (BCCI)** established the league in **2007.**
- IPL's current chairman is **Brijesh Patel.**
- It typically takes place in India's warm months of **March through May** and has a special window in the **ICC Future Tours Programme.**
- **Mumbai Indians** are the most successful team in the history of the league in terms of **titles won with five.**
- **Four titles** have been won by the **Chennai Super Kings.**
- **Kolkata Knight Riders** has won **two championships.**
- **Gujarat Titans, Rajasthan Royals, Deccan Chargers, and Sunrisers** Hyderabad have all won the championship **once.**
- The **Gujarat Titans** are the reigning champions after their **7-wicket victory** over the **Rajasthan Royals in the 2022** season final.

46. **Answer: a**

Explanation:

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

⭐ <u>Key Points</u>

- The ability to see in **three dimensions—length, width, and depth** —is known as **stereopsis.**
- It enables a person to determine **how far away or close** an object is from them.

- Many different **visual inputs** , referred to as **depth cues,** are the source of depth perception.
- These depth cues might be **monocular (one eye) or binocular (two eyes).**
- Because the eyes are somewhat offset on the head, each eye receives a separate image, leading to **binocular vision (left and right eyes).**
- The term **"horizontal disparities"** or, more generally, **"binocular disparities"** is used to describe these spatial variances.
- The **visual cortex of the brain** processes disparities to produce **depth perception.**
- While **binocular disparities** are naturally present when viewing a **real three-dimensional scene** with two eyes, they can also be simulated by **artificially** presenting two different images separately to each eye using a **method called stereoscopy.**
- In these circumstances, the perception of depth is also known as **"stereoscopic depth."**

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47. **Answer: a**

Explanation:

The correct answer is **Shashi Tharoor.**

⭐ **Key Points**

- A former **international civil servant, diplomat, bureaucrat, politician, writer, and public intellectua** l from India, Shashi Tharoor has represented **Thiruvananthapuram, Kerala** , in the **legislature since 2009.**
- He is the **Chairman of the Standing Committee on Chemicals and Fertilizers.**
- Shashi Tharoor published the book **Why I Am a Hindu in 2018** .
- Tharoor clarifies his personal religious beliefs while writing about the **history of Hinduism and its fundamental principles,** as well as related **socio-cultural changes** in India.
- His other works include An **Era of Darkness, Pax Indica, Tharoorosaurus, and The Paradoxical Prime Minister.**

⭐ <u>Additional Information</u>

Author	Books
Satyarth Nayak	Sridevi: The Eternal Screen Goddess, The Emperor's Riddles, Venom
Vikram Seth	A Suitable Boy, The Golden Gate, The Frog and the Nightingale, From Heaven Lake, All You Who Sleep Tonight etc.
Manmohan Singh	Changing India, Prime Minister Manmohan Singh: June 2005 to May 2006, To the Nation for the Nation, The Quest for Equity in Development , etc.

48. **Answer: c**

Explanation:

The correct answer is <u>BRICS Partnership for Global Stability, Shared Security and Innovative Growth.</u>

⭐ <u>Key Points</u>

- The **2020 BRICS** summit marked the **group's twelfth annual gathering.**
- The five member states **Brazil, Russia, India, China, and South Africa's** chiefs of state or governments attended the summit on international relations.
- Due to the **COVID-19 pandemic** , the meeting's original dates of July 21–23, 2020, in **Saint Petersburg** were changed to a **video conference** on November 17.
- The most recent BRICS summit was hosted **by Russia at Ufa.**
- The **first Sherpa meeting** was held in **Saint Petersburg** from February 11 to 13 2020.
- **Sergei Ryabkov,** the Russian Federation's **deputy minister of foreign affairs** and a **Russian Sherpa** for the BRICS, served as the meeting's **chairman.**
- The theme for 2020 was **"BRICS Partnership for Global Stability, Shared Security and Innovative Growth.**

⭐ <u>Additional Information</u>

- The **14th BRICS summit** was essentially hosted by **China.**
- In addition to the main meeting, ministers from the **UAE, Saudi Arabia, Egypt, Kazakhstan, Indonesia, Argentina, Nigeria, Senegal, and Thailand** participated in the BRICS Plus **virtual conference.**
- **Foster High-quality BRICS Partnership, Usher in a New Era for Global Development** is the theme of the **14th BRICS Summit.**

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49. **Answer: b**

Explanation:

The correct answer is <u>21 years.</u>

⭐ <u>Key Points</u>

- In rural areas of the Indian subcontinent, a form of **local self-government** known as the **Panchayati Raj Institution, or PRI,** is used.
- It is **divided into three levels:** village, intermediate block/taluk/mandal, and district.
- The management of local matters is made easier by **local self government.**
- These local bodies have elected representatives who, as a result, have a **greater awareness of problems** at the grassroots level.
- Therefore, a person must be **at least 21 years old** to run in elections.
- The **73rd Amendment added Part IX** in the constitution of India and was **titled "The Panchayats".**
- Article 243C in The Constitution Of India deals with the composition of Panchayats.

---

50. **Answer: a**

Explanation:

The correct answer is **Lawn tennis.**

⭐ **Key Points**

- A **rectangular court** is used for the sport of **lawn tennis.**
- It can be **played inside or outdoors** by **two players (in singles), four players (in men's and women's doubles),** or partners of both sexes **(mixed doubles).**
- The players **hit a ball back and forth** across a net with rackets.
- By striking the **ball out of the opponent's reach** or in a way that prevents him from successfully returning it, one can **gain points.**
- Trophies related to **lawn tennis** are:
    - Barna Bellack Cup, Davis Cup, Grand Prix, Jaylaxmi Cup (Women's), Rajendra Prasad Cup, Rajkumar Cup (Junior boys), Rajkumari Cup (Junior girls), Ramanujan Trophy, Thant Cup, Travancore Cup (Women's), Wightman Cup and Wimbledon Trophy.

⭐ **Additional Information**

Sport	Trophy
Horse racing	Derby Trophy
Table tennis	Barna Bellack Cup, Corbillion Cup, Corbitton Cup (Women), Jaylaxmi Cup (Women's), Rajkumar Cup (Junior boys), Rajkumari Challenge Cup, Rajkumari Cup (Junior girls), Ramanujan Trophy, Swaythling Cup (Men), Table Tennis Grand Prix, Travancore Cup (Women's).
Hockey	Agha Khan Cup, Beighton Cup, Bombay Gold Cup, Dhyan Chand Trophy, Essandre Champions Cup, Gurmeet Trophy, Guru Nanak Championship, Gyanuati Devi Trophy, Hockey World Cup, Indira Gold Cup, Kuppuswamy Naidu Trophy, Lady Ratan Tata Trophy, Indira Gold Cup, MCC Trophy, Modi Gold Cup, Murugappa Gold Cup, Nehru Trophy, Nehru Trophy (Hockey Women's), Obaid Ullah Gold Cup, Rangaswami Cup, Ranjit Singh Gold Cup, Rene Frank Trophy, Sahni Trophy, Scindia Gold Cup, Tommy Eman Gold Cup.

51. Answer: a

Explanation:

Given:

A can do a piece of work in 40 days.

Works A at it for 10 days, and then B alone finishes the remaining work in 45 days.

Calculation:

Let B complete the same work in x days.

A + B = 1

$\Rightarrow \frac{10}{40} + \frac{45}{x} = 1$

$\Rightarrow \frac{45}{x} = 1 - \frac{1}{4} = \frac{3}{4}$

$\Rightarrow x = \frac{4}{3} \times 45 = 60$ days

Let A and B will take t days to finish 75% of the same work.

$\Rightarrow \frac{t}{40} + \frac{t}{60} = 75\%$

$\Rightarrow t \left(\frac{1}{40} + \frac{1}{60} \right) = \frac{3}{4}$

$\Rightarrow t \times \frac{10}{240} = \frac{3}{4}$

$\Rightarrow t = \frac{3}{4} \times \frac{24}{1} = 18$ days.

∴ A and B will take 18 days to finish 75% of the same work.

---

52. Answer: d

Explanation:

Concept used:

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

Calculation:

$\Rightarrow 3 \times 8 \div 4$ of $6 - 6 \div 4 \times (13 - 15) + 4 - 2 \times 9 \div 6 \times 6$

$\Rightarrow 3 \times 8 \div 4$ of $6 - 6 \div 4 \times (-2) + 4 - 2 \times 9 \div 6 \times 6$

$\Rightarrow 3 \times 8 \div 24 - 6 \div 4 \times (-2) + 4 - 18$

$\Rightarrow 3 \times 1/3 - 6/4 \times (-2) + 4 - 18$

$\Rightarrow 1 + 7 - 18$

$\Rightarrow 8 - 18$

$\Rightarrow -10$

∴ The correct answer is **−10** .

---

53. **Answer: b**

Explanation:

Given:

Pipes A and B can fill an empty cistern in 12 hours and 16 hours.

After 3 hours pipe B is closed.

Calculation:

Let pipe A take to fill the remaining cistern be x hr.

A + B = 1 (Total work)

$\Rightarrow \frac{x+3}{12} + \frac{3}{16} = 1$

$\Rightarrow \frac{x+3}{12} = 1 - \frac{3}{16} = \frac{13}{16}$

$\Rightarrow x + 3 = \frac{13}{16} \times 16 = \frac{39}{4}$

$\Rightarrow x = \frac{39}{4} - 3 = \frac{27}{4} = 6\frac{3}{4}$

∴ Pipe A takes to fill the remaining cistern is $6\frac{3}{4}$ hours.

⭐ Alternate Method

Part of the tank is filled by pipes A and B in 3 hours.

$\Rightarrow 3\left(\frac{1}{12} + \frac{1}{16} \right) = 3 \times \frac{7}{48} = \frac{7}{16}$

Remaining part = $1 - \frac{7}{16} = \frac{9}{16}$

This part is filled by pipe A.

Required time = $\frac{9}{16} \times 12 = \frac{27}{4} = 6\frac{3}{4}$

∴ Pipe A takes to fill the remaining cistern is $6\frac{3}{4}$ hours.

---

54. **Answer: d**

Explanation:

Given:

Average of 23 numbers is 45

Average of the first 12 numbers is 40.5

Average of the last 6 numbers is 48.5

Formula used:

Average = Sum of numbers/Total numbers

Calculation:

Average = Sum of numbers/Total numbers

$\Rightarrow$ 45 = Sum of 23 numbers/23

$\therefore$ Sum of 23 numbers = 45 × 23 = 1035

Again,

$\Rightarrow$ 40.5 = Sum of first 12 numbers/12

$\therefore$ Sum of first 12 numbers = 40.5 × 12 = 486

Again,

48.5 = Sum of last 6 numbers/6

$\therefore$ Sum of last 6 numbers = 48.5 × 6 = 291

Now,

Sum of remaining 5 numbers = Sum of 23 numbers - (Sum of First 12 numbers + Sum of last 6 numbers)

Sum of remaining 5 numbers = 1035 - (486 + 291) = 1035 - 777 = 258

$\therefore$ Average of remaining 5 numbers = 258/5 = 51.6

$\therefore$ **The average of remaining 5 numbers is 51.6**

---

55. **Answer: b**

Explanation:

Given:

X be the greatest number of 4-digits which when divided by 12, 15, 16 and 20 and the remainders are 9, 12, 13, and 17, respectively

Calculation:

For LCM (12, 15, 16, 20)

⇒ 12 = 2 × 2 × 3

⇒ 15 = 3 × 5

⇒ 16 = 4 × 4

⇒ 20 = 2 × 2 × 5

LCM = 24 × 3 × 5 = 240

We know that the greatest 4-digit number is 9999

Now, we divide 9999 by 240 and after dividing the remainder is 159

∴ We subtract 159 in 9999

⇒ 9999 - 159 = 9840

Now, 12 - 9 = 3, 15 - 12 = 3, 16 - 13 = 3, 20 - 17 = 3

Here, the difference is the same which is 3S

So, the greatest number which is divisible by 12, 15, 16, and 20 is

⇒ 9840 - 3 = 9837

Sum of digits of 9837 = 9 + 8 + 3 + 7 = 27

∴ **The sum of the digits of x is 27**

56. Answer: d

Explanation:

Given:

Distance covered upstream = 48 km

Distance covered downstream = 48 km

Speed of current of river (u) = 4 km/h

Concept used :

v = speed of boat

u = speed of river

D = Distance

Time taken downstream = $D/(v + u)$

Time taken upstream = $D/(v - u)$

Calculation:

According to question,

$\Rightarrow 48/(v - u) = 48/(v + u) + 1$

$\Rightarrow (48 \times 2 \times u)/(v - u)(v + u) = 1$ --------------(1)

Now putting value of u in eq (1),

$\Rightarrow 48 \times 2 \times 4/(v - 4)(v + 4) = 1$

$\Rightarrow v^2 - 16 = 384$

$\Rightarrow v^2 = 400$

$\Rightarrow v = +20 (Correct) , -20 (incorrect)$

∴ The correct answer is **20** km/h.

⭐ <u>Shortcut Trick:</u>

By Directly putting v = 20 in eq(1)

⇒ (48 × 2 × 4)/(20 −4)(20 + 4) = 1

⇒ (48 × 8)/(16 × 24) = 1

⇒ 1 = 1

∴ L.H.S = R.H.S

Here, it shows that the correct answer will be **20** .

---

57. Answer: c

Explanation:

Given:-

Speed of train A = 80 km/h

Speed of train B = 100km/h

Formula used:

Distance = Speed × Time

Calculation:-

Let, the time taken to cross-train A is T hr.

According to the question, A leaves the station 30 min earlier

Distance traveled by A in 30 min (i.e. $\frac{1}{2}$ hr) = 80 × $\frac{1}{2}$ = 40 km.

Distance traveled by A in T hr = 80T

Distance traveled by B in T hr = 100T

Train B will cross train A if

100 T = 80 T + 40

⇒ 20T = 40

⇒ T = 2 hours

So, **Train B will take 2 hours to pass train A.**

⭐ <u>Alternate Method</u>

For train A –

Distance travel in first 1 hour = 40 + 80

= 120 km

Distance travel in next 1 hour = 120 + 80

= 200 km

Distance travel in next 1 hour = 200 + 80

= 280 km

For train B –

Distance travel in first 1 hour = 100km

Distance travel in next 1 hour = 100 + 100 = 200 km

So, **Train B passes the train A in 2 hours.**

---

58. **Answer: b**

Explanation:

Given:

Total seats = 2100

Each seat costs = Rs.160

Calculation:

$82\frac{2}{3}$ % of seats were filled out of 2100 seats.

Remaining seats = 2100 – 2100 × $\frac{248}{3}$ %

⇒ 2100 – 2100 × $\frac{248}{3 \times 100}$ = 364 seats

Each seat costs = Rs. 160

Total loss incurred = 364 × 160 = Rs. 58240

∴ The total loss incurred is Rs. 58240.

---

59. **Answer: a**

Explanation:

Calculation:

Let there be n numbers in the original list and their mean be x.

Then, the sum of n numbers = n × y

And the Average of the number is A

According to question,

⇒ x / n = A ----------------(1)

⇒ x + 25 / n + 1 = A + 4 -----------(2)

⇒ x + 32 / n + 2 = (A + 4) – 1 / 3 ------------(3)

By solving the equation (1) and (2) we get,

⇒ x + 25 / n + 1 = A + 4

⇒ x + 25 = (A + 4) × (n + 1)

⇒ x + 25 = An + 4n + A + 4

⇒ An + 25 = An + 4n +A + 4

⇒ 4n + A = 21 ------------(4)

Now Solving equation (1) and (3) we get,

⇒ x + 32 / n + 2 = a + 11 / 3

⇒ 3 (x + 32) = (3A + x) (x + 2)

⇒ 96 – 22 = 11n + 6

⇒ 74 – 11n = 6A   -----------------(5)

Now solving equation (4) and (5) we get,

74 – 11n = 6A

74 – 11n = 6(21 – 4n)

74 – 11n = 126 – 24n

13n = 52

n = 4

Number in the original list = 4

---

60. **Answer: b**

Explanation:

Given:-

CI – SI = 324

Principal = 40000

Time = 2 years

Formula used:-

Compound Interest = Amount – Principal

$CI = P[(1 + R/100)^n – 1]$

Simple interest = $(P × R × T)/100$

Calculation:-

According to question-

$\Rightarrow P[(1 + R/100)^n – 1] – (P × R × T)/100 = 324$

$\Rightarrow 40000[(1 + R/100)^2 – 1] – (40000 × R × 2)/100 = 324$

$\Rightarrow 40000[\{(100 + R)^2/100^2 – 1\} – \{R × 2\}/100 = 324$

$\Rightarrow 400[\{100^2 + R^2 + 2 × 100 × R – 100^2\}/100 – 2R] = 324$

$\Rightarrow [\{R^2 + 200R\}/100 – 2R] = 324/400$

$\Rightarrow (R^2 + 200R – 200R)/100 = 324/400$

$\Rightarrow R^2 = 32400/400$

$\Rightarrow R^2 = 81$

$\Rightarrow R = 9\%$

∴ **The rate of interest per annum is 9%.**

Formula used:-

⭐ <u>Shortcut Trick</u>

Difference between CI - SI for 2 years,

$\Rightarrow D = P(R/100)^2$

Where,

D = Difference

P = Principal

R = Rate of interest

Calculation:-

$\Rightarrow 324 = 40000(R/100)^2$

$\Rightarrow R^2 \times 40000 = 3240000$

$\Rightarrow R^2 = 81$

$\Rightarrow R = 9\%$

∴ Required rate of interest is 9%.

61. **Answer: b**

Explanation:

Given:

Profit = 25%

CP is reduced = 20%

Formula used:

SP = CP × (100 + P%)/100

Profit = SP – CP

Profit% = P × 100/CP

Calculation:

Let CP be Rs. 100

SP = 100 × (100 + 25)/100 = 125

If CP is reduced 20%, then CP = 80

But SP is the same i.e Rs. 125

Profit = 125 – 80 = 45

Profit% = 45 × 100/80 = $56\frac{1}{4}$ %

∴ The profit % is $56\frac{1}{4}$%

---

62. **Answer: c**

Explanation:

Given:

Side of Square ABCD = 30 m

Formula used:

Area of square = (side)^2

Calculation:
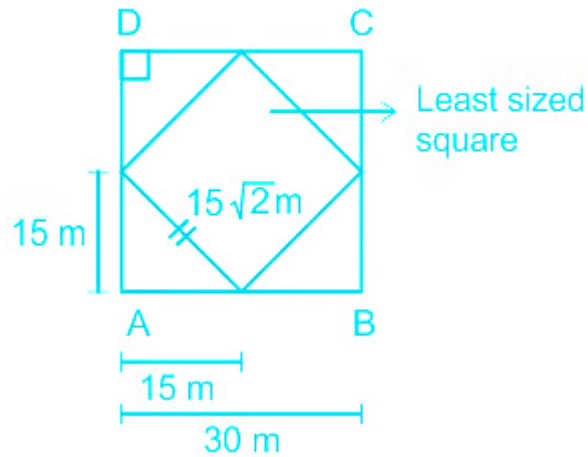
Side of least sized square = 15√2 m

Area of Least sized square = $(15\sqrt{2})^2$

⇒ 225 × 2

⇒ 450 m^2

∴ The correct answer is **450** m^2 .

---

63. Answer: d

Explanation:

Given:-

Diameter (d) = 1.5 × height (h)

Curved surface area = 480π cm^2

Formula used:-

Slant height (l) = $\sqrt{r^2 + h^2}$

Curved surface area = πrl

Calculation:-

According to the question,

Radius (r) = 0.75 × h

∴ l = $\sqrt{r^2 + h^2}$

⇒ l = $\sqrt{(0.75 \times h)^2 + h^2}$

⇒ l = h × $\sqrt{0.5625 + 1}$

⇒ l = 1.25 × h

⇒ l = 1.25 × (r / 0.75)

⇒ l = 1.667 × r

Now, Curved surface area = π × r × l = 480π

⇒ r × 1.667 × r = 480

⇒ r ^{2} = 480/1.667

⇒ r ^{2} = 287.94

⇒ r = √ 287.94

⇒ r = 17 cm

∴ h = 17/(0.75)

h = 22.66 cm

∴ l = $\sqrt{17^2 + 22.66^2}$

⇒ l = 28.32cm

⇒ **l = 20√2 = 28.32cm**

Diameter = 1.5 × height

⭐ <u>Shortcut Trick</u>

Radius(r) = 0.75 × h

⇒ r / h = 75/100 = 3/4

Let r = 3x and h = 4x

⇒ l = $\sqrt{r^2 + h^2}$ = $\sqrt{(3x)^2 + (4x)^2}$ = 5x

Now, Curved surface area = π × r × l = 480π

⇒ π × 3x × 5x = 480 π

⇒ x^2 = 32 ⇒ x = 4√2 cm

∴ The slant height = 5x = 5 × 4√2 = 20√2 cm

---

64. Answer: c

Explanation:

Given:

Amount = Rs. 16,950

Rate of interest = 7.5%

Time = 5 $\frac{1}{2}$ years = 11/2 years

Formula used:

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

Amount = Principal + Simple interest

Calculation:

Let P be the sum

SI = $\frac{P \times \frac{11}{2} \times 7.5}{100}$ = (P × 11 × 7.5)/200

SI = 33P/80

As amount is Rs. 16,950

P + (33P/80) = 16950

⇒ 113P/80 = 16950

P = 12000

Now, SI on sum = 12000 with rate 7.5% and time $8 \frac{1}{4}$ years

SI = (12000 × 7.5 × 33)/400 = 30 × 7.5 × 33

SI = 7425

∴ **The required SI is Rs. 7425.**

⭐ **Alternate Method**

Let the sum be Rs. 100

Simple interest = 7.5 × (11/2)% of 100 = 165/4

Amount = 100 + (165/4) = 565/4

Also 565/4 ——→ 16950

⇒ 1 ——→ 16950 × (4/565) = 120

⇒ 100 ——→ 12000

∴ The sum = Rs. 12000

Now, SI at 7.5% and time 33/4 years

SI = $\frac{12000 \times 7.5 \times 33}{400}$ = 30 × 7.5 × 33

SI = 7425

∴ **The correct answer is Rs. 7425.**

65. Answer: b

Explanation:

Given:

Amount in 4 years = ₹9,648

Amount in 7 years = ₹11,484

Formula used:

A = P + SI

Calculation:

Amount in 4 years = ₹9,648

Amount in 7 years = ₹11,484

SI in 3 years = 11,484 − 9,648 = 1836

SI in 1 years = 1836/3 = 612

SI in 4 years = 612 × 4 = 2448

For 4 years, A = P + SI

⇒ 9,648 = P + 2448

⇒ P = 9648 − 2448 = 7200

∴ The sum is Rs. 7200.

---

66. Answer: d

Explanation:

Solution:

HCF of (116 – 68) = 48, (68 – 52) = 16, and (116 – 52) = 64

HCF of 16, 48, 64 = 16

∴ The greatest number is 16 which divides 52, 68 and 116 to leave the same remainder in each case

---

67. Answer: a

Explanation:

Given:

CP of 62 books = SP of 50 books

Formula used:

Profit = SP – CP

Profit% = P × 100/CP

Calculation:

CP × 62 = SP × 50

⇒ (CP/SP) = 50/62 = 25/31

CP = 25, SP = 31

Profit = 31 – 25 = 6

Profit% = 6 × 100/25 = 24

∴ The profit % is 24%.

---

68. Answer: d

Explanation:

Concept used:

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

Calculation:

$\Rightarrow 1 \div 1 \ \left\{ \frac{1}{2} + \frac{5}{2} of \frac{1}{5} - \left(\frac{1}{4} \div \frac{1}{2} + \frac{1}{2} \right) + \frac{1}{2} \times 3 \right\}$

$\Rightarrow 1 \div 1 \ \left\{ \frac{1}{2} + \frac{5}{2} of \frac{1}{5} - \left(\frac{1}{4} \times 2 + \frac{1}{2} \right) + \frac{1}{2} \times 3 \right\}$

$\Rightarrow 1 \div 1 \ \left\{ \frac{1}{2} + \frac{1}{2} - 1 + \frac{3}{2} \right\}$

$\Rightarrow 1 \div 1 \ \left\{ \frac{3}{2} \right\}$

$\Rightarrow 1 \div \ \left\{ \frac{3}{2} \right\}$

$\Rightarrow 2/3$

∴ The correct answer is **2/3** .

---

69. **Answer: a**

Explanation:

Given;

Reduction of 18% in price.

Housewife to buy 5 kg more for Rs. 1876.

Calculation:

Let the initial price of rice be Rs. x per kg.

Reduce the price of rice = x × $\frac{82}{100}$ = $\frac{41x}{50}$

Now, according to the question,

⇒ $\frac{1876}{\frac{41x}{50}}$ − $\frac{1876}{x}$ = 5

⇒ $\frac{93,800}{41x}$ − $\frac{1876}{x}$ = 5

⇒ $\frac{(93,800 - 76916)}{41x}$ = 5

⇒ x = $\frac{16,884}{(41 \times 5)}$ = Rs. 82.36 per kg

Reduce the price of rice = $\frac{41x}{50}$ = $\frac{41}{50}$ × 82.36 = Rs. 67.5 per kg

∴ **Reduce the price of rice is Rs. 68 per kg.**

⭐ <u>**Shortcut Trick**</u>

If the discount of d% on the price of rice enables a housewife to buy y kg more for Rs. x.

Reduce the price of rice = $\frac{x}{y}$ × d%

⇒ $\frac{1876}{5}$ × 18%

⇒ $\frac{1876}{5}$ × $\frac{18}{100}$ = Rs. 67.5 per kg

∴ Reduce the price of rice is Rs. 68 per kg.

---

70. **Answer: d**

Explanation:

Given:

MP is 25% higher than CP

Discount = 30%

Formula used:

SP = MP × (100 − L%)/100

L% = L × 100/CP

Calculation:

Let CP be Rs. 100x

MP = 125x

SP = 125x × (100 − 30)/100 = 125x × 7/10

SP = 87.5x

Loss = 100x − 87.5x = 12.5x

Loss% = 12.5x × 100/100x = 12.5

Hence, the required loss is 12.5%

⭐ <u>Alternate Method</u>

As MP is 25% above CP

CP : MP = 100 : 125

CP : MP = 4 : 5   ------- (1)

Also CP : MP = (100 − D%) : (100 − P)

CP : MP = 70 : (100 − P)   ------- (2)

⇒ 4 : 5 = 70 : (100 − P)   -- From (1) and (2)

⇒ 4(100 − P) = 350

$\Rightarrow 4P = -50$

$P = -12.5$

Profit is negative because there is a loss of 12.5%

$\therefore$ The required loss is 12.5%

---

71. **Answer: c**

Explanation:

Given:

Vessels A and B contain acid and water in the ratio 3 : 2 and 7 : 3

Contents of A and B are mixed in the ratio 4 : 3

Calculation:

In vessel A

Acid : water = 3 : 2

$\therefore$ Acid = 3/5, water = 2/5

In vessel B

Acid : water = 7 : 3

$\therefore$ Acid = 7/10, water = 3/10

Now, According to the question,

$$\frac{acid}{water} = \frac{4 \times \frac{3}{5} + 3 \times \frac{7}{10}}{4 \times \frac{2}{5} + 3 \times \frac{3}{10}}$$

$$\Rightarrow \frac{acid}{water} = \frac{\frac{12}{5} + \frac{21}{10}}{\frac{8}{5} + \frac{9}{10}}$$

$$\Rightarrow \frac{acid}{water} = \frac{\frac{24+21}{10}}{\frac{16+9}{10}}$$

$\Rightarrow \dfrac{acid}{water} = \dfrac{\frac{45}{10}}{\frac{25}{10}}$

$\Rightarrow \dfrac{acid}{water} = \dfrac{45}{25}$

$\Rightarrow \dfrac{acid}{water} = \dfrac{9}{5}$

$\therefore$ acid : water = 9 : 5

$\therefore$ **The ratio of acid and water in the resulting solution is 9:5**

---

72. Answer: b

Explanation:

Solution:

Let the CP of the article be x.

If the Salesman sells the article of 24 % Profit, then SP of the article = x × (124 / 100)

If the Salesman had purchased the article 12 % less, the new CP of the article = x × (88 / 100)

According to Question,

$\Rightarrow$ [(124x/100) – 69] – (88x/100) = (88x/100) × (20/100)

$\Rightarrow$ 1.24x – 69 – .88x = 0.176x

$\Rightarrow$ .36x – 69 = 0.176

$\Rightarrow$ .36x – 0.176x = 69

$\Rightarrow$ 0.184x = 69

$\Rightarrow$ x = (69 × 1000)/184

$\Rightarrow$ 375

$\therefore$ **The Cost price of the item is 375**

73. **Answer: d**

Explanation:

Given:-

Total number of boys passed = 702

28% of Boys and 16% of Girls failed.

Calculation:-

Let 100N be the total number of students who appeared-

∴ No. of boys = 65% of 100N = 65N

∴ No. of girls = (100 – 65)% of 100N = 35N

So, total number of boys passed = 702

∴ Total boys – Failed boys = 702

⇒ 65N – 28% of 65N = 702

⇒ 65N – (0.28 × 65N) = 702

⇒ 65N(1 – 0.28) = 702

⇒ 65N × 0.72 = 702

N = 702/46.8

N = 15

∴ Total number of students = 100 × 15 = 1500

So, the total no. of girls passed = 35N – (0.16 × 35N)

Total passed girls = 35N(1 – 0.16)

⇒ 35 × 15 × 0.84

⇒ 441

∴ **441 girls are passed**

---

74. **Answer: d**

Explanation:

Calculation:

Five years ago, the ration of ages of A and B = 5x : 8x

According to the question,

⇒ (5x +15)/(8x+ 15) = 8/11

⇒ 11(5x + 15) = 8(8x + 15)

⇒ 55x + 165 = 64x + 120

⇒ 9x = 45

⇒ x = 5

Present age of B = 8x + 5

⇒ 8 × 5 + 5 = 45

∴ **Present age of B = 45**

---

75. **Answer: a**

Explanation:

Given:

First term(a) = 6

Second term(b) = 42

Concept used:

Third Proportion: If a : b = b : c, then c is called the third proportional to a and b.

$\therefore c = b^2/a$

Calculation:

$c = 42^2/6$

$c = 42 \times 42/6$

$c = 294$

$\therefore$ The third proportional is 294

---

76. **Answer: a**

Explanation:

The incorrectly spelt word is: **Imaculate** .

⭐ **Key Points**

- The correct spelling is 'immaculate'.
- Immaculate: perfectly clean, neat, or tidy.

Therefore, the correct answer is option **(1) Imaculate** .

---

77. **Answer: a**

Explanation:

The correct answer is Rescued .

⭐ <u>Key Points</u>

- Let's consider meaning of each option-
  - *Rescued - Save (someone) from a dangerous or difficult situation.*
  - Transferred - Move from one place to another.
  - Preserved - Maintain (something) in its original or existing state.
  - Passed - Move or cause to move in a specified direction.
- Hence 'rescued' is the most appropriate word to fill in the blank.
- Thus, option 1 is the correct answer.

Correct sentence: The little girl rescued a puppy from the street.

---

78. **Answer: d**

Explanation:

The correct answer is committed many mistakes.

⭐ <u>Key Points</u>

- The given sentence is written in **Simple Past tense** .
- Structure: Subject + V2 + object
  - *Example: He went to the gym .*
- Use of **much** : a large amount of something if the noun is **non-countable.**
- Use of **many** : a large amount of something if the **noun** is countable .
  - **Mistakes** are **countable** nouns.
- **Commit** : to do something **bad**
  - **V2 form** of **commit** is **committed** .
- Therefore, ' **did much mistakes** ' should be replaced with ' **committed much mistakes** ' to make it grammatically correct.

Correct Sentence: He <u>*committed many mistakes*</u>.

---

79. Answer: a

Explanation:

The correct answer is ' **I am thinking**' .

⭐ <u>Key Points</u>

- The error lies in ' I am thinking ' part of the sentence.
- The sentence should be written in **Simple present tense** .
- We use the **present tense** to talk **about something that is going on now** (currently) .
- Structure: Subject + V1 + s/es(if singular subject) + object <u>(Active Voice)</u>
  - *Example: He plays football . (Active Voice)*
- V1 form of ' thinking ' is ' think '.
- Therefore, the use of 'I am thinking' should be replaced with 'I think' to make it grammatically correct.

<u>Correct sentence :</u> *<u>I think</u> your idea will be really appreciated by everyone.*

80. Answer: b

Explanation:

The correct answer is Choice between two unpleasant alternatives .

⭐ <u>Key Points</u>

- The most appropriate meaning of the given idiom 'Between Scylla and Charybdis ' is ' Choice between two unpleasant alternatives '.
- Between Scylla and Charybdis : Between two perils or evils, neither of which can be evaded without risking the other.
  - *Example : Mr. Jefferson does not see that his argument will bring him between Scylla and Charybdis.*
- Therefore, as per the above-mentioned points, option 2 is the correct answer.

Correct meaning : Choice between two unpleasant alternatives.

81. Answer: d

Explanation:

The correct answer is Discontinue.

⭐ <u>Key Points</u>

- **Persist** means *to continue doing something* even though other people say that you are wrong or that you cannot do it .
    - *Example :If you **persist** in making so much noise, I shall call the police.*
- Marked option Discontinue means *cease from doing* or providing (something), especially something that has been provided on a regular basis.
    - *Example: The ferry service was discontinued by the proprietors.*
- It is clear that ' Discontinue' and ' Persist ' are two opposite words in meaning.
- Therefore the correct answer is option 4.

⭐ <u>Additional Information</u>

- Incline - Be favourably disposed towards or willing to do something.
- Convince - Cause (someone) to believe firmly in the truth of something.
- Enable - Unable, not able.

82. Answer: b

Explanation:

The correct answer is Original.

⭐ <u>Key Points</u>

- Dummy means *a model or replica of a human being.*

   - *Example : When we received the galleys from the typesetter, we would have dummied the book.*
- Marked option Original means *present or existing from the beginning; first or earliest.*
   - *Example: He is the original owner of the house.*
- It is clear that ' Dummy ' and ' original ' are two opposite words in meaning.
- Therefore, from the above-mentioned points, we can conclude that option 2 is the correct answer.

⭐ <u>Additional Information</u>

- Counterfeit - Made in exact imitation of something valuable with the intention to deceive or defraud.
- Copy - A thing made to be similar or identical to another.
- Duplicate - Exactly like something else, especially through having been copied.

---

83. **Answer: a**

Explanation:

The correct answer is ' to be followed'.

⭐ <u>Key Points</u>

- The error lies in ' to be followed ' part of the sentence.
- The given sentence should be written in ' **to + infinitive** ' form in **Active voice** .
- **Infinitives** are a **special form of verbs** that can be used as a noun, adjectives, or adverbs.
   - They are usually made by **adding** the word ' **to** ' before the base verb , and they can be useful when **discussing actions without actually doing the action.**
- **Structure: Subject + verb + noun / pronoun + to + V1 + Object** (Active Voice)
  Object + verb + noun / pronoun + to + be + V3 + Subject (Passive Voice)
   - *Example: Is anybody going to invite me? (Active Voice)*
     Am I going to be invited by anybody? (Passive voice)

- V1 form of **followed** is ' **follow** '.
- Therefore, ' **to be followed** ' part in the sentence should be replaced with ' **to follow** ' to make it grammatically correct.

Correct Sentence: *The easiest way to make pasta is* <u>*to follow*</u> *Chef Kapoor's instructions on YouTube.*

---

84. Answer: b

Explanation:

The correct answer is ' No substitution required '.

⭐ <u>Key Points</u>

- The given sentence is written in Simple Past tense in Passive voice .
- Structure: Object + was/were + V3 + by + Subject (Passive voice)
  - *Example: He was slapped by me .*
- Rot : to go bad or make something go bad as part of a natural process
  - V3 form of rot is rotten .
- The object ' **Many of the apples** ' is **plural** , hence we will use ' **were** ' here.
- Therefore, the given sentence is absolutely correct and contains no grammatical error.
- Hence, No substitution required.

Correct Sentence: *Many of the apples* <u>*were rotten*</u>*. .*

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85. Answer: a

Explanation:

The correct answer is Effect.

⭐ <u>Key Points</u>

- Let's consider each option-
    - *Effect - A change that is a result or consequence of an action or other cause.*
    - Problem - A matter or situation regarded as unwelcome or harmful and needing to be dealt with and overcome.
    - Shock - A sudden upsetting or surprising event or experience.
    - Force - Strength or energy as an attribute of physical action or movement.
- Hence, from the above-mentioned points, we can conclude that the most appropriate word to fill in the blank is 'effect' .
- Thus option 1 is the correct answer.

Correct sentence : It is a well-known fact that air pollution has a terrible effect on the health of people.

86. Answer: d

Explanation:

The correct answer is Raining heavily .

⭐ **Key Points**

- The most appropriate meaning of the idiom 'raining cats and dogs' is 'raining heavily'.
- Raining Cats and Dogs:*To rain very heavily.*
    - *Example : Don't forget to take your umbrella - it's raining cats and dogs out there.*
- Therefore from the above-mentioned points, we can conclude that option 4 is the correct answer.

Correct sentence : Raining heavily.

87. Answer: a

Explanation:

The correct answer is Somnambulist.

⭐ **Key Points**

- Let's consider meaning of each option-
  - *Somnambulist - A person who walks around, eats, or performs other motor acts while asleep.*
  - Exorcist - A person who expels or attempts to expel a supposed evil spirit from a person or place.
  - Atheist - A person who disbelieves or lacks belief in the existence of God or gods.
  - Ventriloquist - A person, especially an entertainer, who can make their voice appear to come from somewhere else, typically a dummy of a person or animal.
- Therefore as per the points mentioned above we find out that 'somnambulist' is the most appropriate word to substitute the group of words A person who walks in his/her sleep.
- Thus option 1 is the correct answer.

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88. **Answer: a**

Explanation:

The correct answer is Sweat.

⭐ **Key Points**

- Toil means 'Work extremely hard or incessantly'.
  - *Example : I was toiling up the hill with four heavy bags when he took pity on me.*
- The marked option 'Sweat' means *'moisture exuded through the pores of the skin, typically in profuse quantities as a reaction to heat, physical exertion, fever, or fear'*.

    ○ *Example : We were drenched/bathed in sweat after the workout.*
- Therefore, from the above mentioned points, we can say that 'sweat' and 'toil' are similar words.
- Thus option 1 is the correct answer.

⭐ <u>Additional Information</u>

- Drive - Operate and control the direction and speed of a motor vehicle.
- Climb - Go or come up a (slope or staircase); ascend.
- Rest - Cease work or movement in order to relax, sleep, or recover strength.

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89. **Answer: b**

Explanation:

The correct answer is Eager.

⭐ <u>Key Points</u>

- Keen means *having or showing eagerness or enthusiasm.*
  - *Example : He's a keen student of art history.*
- The marked option 'eager' means *'strongly wanting to do or have something'.*
  - *Example : The man was eager to please.*
- Therefore from the above mentioned points we can conclude that 'eager' and 'keen' are two similar words in meaning.
- Thus option 2 is the correct answer.

⭐ <u>Additional Information</u>

- Jovial - Cheerful and friendly.
- Active - Engaging or ready to engage in physically energetic pursuits.
- Benign - Gentle and kindly.

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90. **Answer: c**

Explanation:

The correct answer is Trumpet .

⭐ <u>Key Points</u>

- Let's consider each option-
  - Low -close to the ground or to the bottom of something.
  - Grunt - to make a short low sound in the throat.
  - *Trumpet -**Elephants sound** when they are highly stimulated*
  - Bray - to utter the characteristic loud harsh cry of a donkey .
- Hence, the most appropriate word to substitute the expression 'The sound an elephant makes' is 'Trumpet' .
- Thus, option 3 is the correct answer.

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91. **Answer: c**

Explanation:

The correct answer is ' is polluted with'.

⭐ <u>Key Points</u>

- The given sentence should be written in Passive voice of Simple present tense instead of **Active voice** .
- We often use the passive: **to change the focus** of the sentence or when **we prefer not to mention who** or what does the action.
- Structure: Subject + V1 + s/es + object (Active voice)

  Object + is/am/are + V3 + by + Subject (Passive voice)
  - *Example: He scolds me. (Active voice)*

    I was scolded by him. (Passive voice)
- Pollute : to make air, rivers, etc. dirty and dangerous
  - V2 form of pollute is polluted .
- Therefore, ' pollutes with ' should be replaced with ' is polluted with ' to make it grammatically correct.

Correct Sentence: *If the air* <u>*is polluted with*</u> *small particles, natural or otherwise, the sunset will be more red.*

---

92. Answer: b

Explanation:

The correct answer is Abbreviation .

⭐ **Key Points**

- Let's consider each option-
    - Summary -a short description of the main ideas or points of something but without any details.
    - *Abbreviation-* **a short form of a word** or phrase.
    - Anagram -a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once.
    - Precis - a short version of a speech or written text that contains only the most important points

    Hence, the most appropriate word to substitute the expression 'Shortened form of a word or phrase' is 'Abbreviation' .
- Thus, option 2 is the correct answer.

---

93. Answer: d

Explanation:

The correct answer is Operate.

⭐ **Key Points**

- Let's consider the meaning of each option-
    - *Activate -* **make** *(something)* **active** *or* **operative**.

- **Control** - The power to influence or direct people's behaviour or the course of events.
- **Drive** - Operate and control the direction and speed of a motor vehicle.
- **Operate** - Control the functioning of (a machine, process, or system).
- Therefore, as per the points mentioned above 'operate' is the most appropriate word to fill in the blank.
- Thus option 4 is the correct answer.

Correct sentence: The systems operate on a back-up battery when the electricity goes off.

---

94. Answer: d

Explanation:

The correct answer is 'freeze at'

⭐ **Key Points**

- The error lies in 'freeze at' part of the sentence.
- The given sentence is written in Simple present tense and in Active Voice.
- We use the simple present tense when an action happens regularly.
- Structure: Subject + V1 + s/es(if singular subject) + object (Active Voice)
  - *Example: He plays football . (Active Voice)*
- V1 form of ' freeze ' is ' freeze '.
- Subject of the sentence (Water) is singular , hence we will use ' s/es ' with V1.
- Therefore, the use of 'freeze at' should be replaced with 'freezes at' to make it grammatically correct.

Correct sentence : Water <u>freezes at</u> 0 degree Celsius..

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95. Answer: b

Explanation:

The correct answer is Sheild .

⭐ Key Points

- The correct spelling of ' Sheild ' according to the English dictionary is '**Shield**'.
- The word ' Shield ' means '**to protect somebody/something from danger or damage**' .
  - *Example:I shielded my eyes from the bright light with my hand.*
- Hence, the most appropriate answer is ' Sheild '.

⭐ Additional Information

- Let's understand the meaning of other options.
  - Thrust -to push somebody/something suddenly or violently
  - Attach-to fasten or join something to something
  - Injury-harm done to a person's or an animal's body, especially in an accident .

96. **Answer: b**

Explanation:

The correct answer is Has.

⭐ Key Points

- The most appropriate word to fill in the blank is ' Has '.
- Has : Used to indicate possession in the present tense (describing events that are currently happening).
  - *Example : She has a great personality.*
- Therefore from the above-mentioned points, we can conclude that option 1 is the correct answer.

Correct sentence : The power of words has an enduring effect and can be enjoyed by all men and women.

97. Answer: d

Explanation:

The correct answer is Enjoyed .

⭐ **Key Points**

- Let's consider each option-
  - Looked - Direct one's gaze toward someone or something or in a specified direction.
  - Pleased - Feeling or showing pleasure and satisfaction, especially at an event or a situation.
  - Impressed - Feeling or showing admiration or respect for someone or something
  - *Enjoyed - Take delight or pleasure in (an activity or occasion).*
- Hence, as per the above-mentioned points, 'enjoyed' is the most appropriate word to fill in the blank.
- Thus, option 4 is the correct answer.

Correct sentence : The power of words has an enduring effect and can be enjoyed by all men and women.

98. Answer: b

Explanation:

The correct answer is Merely.

⭐ **Key Points**

- The most appropriate word to fill in the blank is 'merely' .
- Merely : Used *to emphasize that you mean exactly what you are saying and nothing more.*
  - *Example : I wasn't complaining, I merely said that I was tired.*

- Thus from the above mentioned points, we can conclude that option 2 is the correct answer.

Correct sentence : Words are not merely for writers or lovers of literature.

⭐ <u>Additional Information</u>

- Such - Used (as a determiner) before a noun phrase to add emphasis:
  - *Example : We visited such fascinating places on our trip through central Asia.*
- Hardly - Hardly is an adverb meaning "almost not".
  - *Example : I hardly ever go to concerts.*
- Same - Same means that two or more things are exactly like one another. We can use same as an adjective before a noun or as a pronoun
  - *Example : I and Richard both are wearing the same shirt.*

99. **Answer: a**

Explanation:

The correct answer is Guided.

⭐ <u>Key Points</u>

- Let's consider each option-
  - Guided - Direct in a way or course.
  - Trained - Having been taught a particular skill or type of behaviour through practice and instruction over a period of time.
  - *Charged - Demand (an amount) as a price for a service rendered or goods supplied.*
  - Managed - Be in charge of (a business, organization, or undertaking); run.
- Therefore, from the above points, we can conclude that the most appropriate word to fill in the blank is ' Guided '.
- Thus, option 1 is the correct answer.

Correct sentence: Every profession is guided by words.

---

100. **Answer: b**

Explanation:

The correct answer is Express.

⭐ **Key Points**

- Let's consider meaning of each option-
    - Depress - Make (someone) feel utterly dispirited or dejected.
    - *Express - Convey (a thought or feeling) in words or by gestures and conduct.*
    - Repress - Subdue (someone or something) by force.
    - Impress - Make (someone) feel admiration and respect.
- Therefore, as per point mentioned, that 'express' is the most appropriate word to fill in the blank.
- Thus option 2 is the correct answer.

Correct sentence : It is impossible to express oneself without using words.