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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



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 13 July 2022 Shift 2)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

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

- 1.) A total of 90 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General Intelligence & Reasoning

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

3856 : 8563 :: 4893 : ? :: 2873 : 8732

- a. 8934
- b. 3948
- c. 3984
- d. 8943

-
2. Six people Ali, Parth, Roy, Minal, Sudhir and Zeeshan are sitting in a straight row facing North. Sudhir and Zeeshan are in the centre. Ali and Parth are at the corners. Roy is sitting to the immediate left of Ali. Who is sitting to the immediate right of Parth? (+1, -0.25)

- a. Sudhir
- b. Zeeshan
- c. Roy
- d. Minal

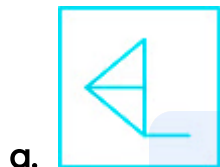
-
3. In a certain code language, 'Flames are bright' is written as '@ # %' and 'Bright is sun flames' is written as '* # 7 @'. Which one of the following is the possible code for 'is' in that code language? (+1, -0.25)

- a. %
- b. @

c. #

d. *

4. Select the option in which the given figure is embedded (rotation is NOT allowed). (+1, -0.25)



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

Statements:

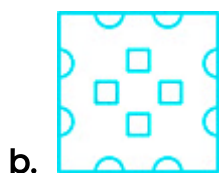
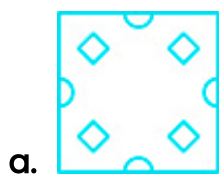
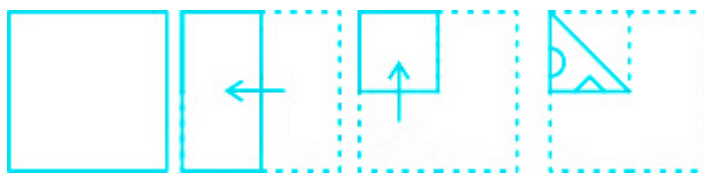
- I. Some A are B.
- II. All C are B.

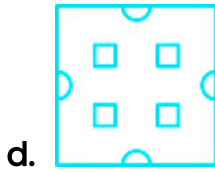
Conclusions:

- I. Some B are A's is a possibility.
- II. No C is A.
- III. All A are C.

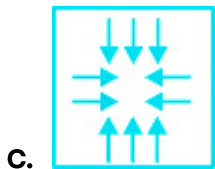
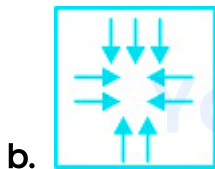
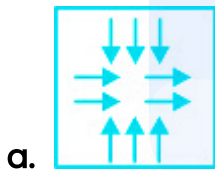
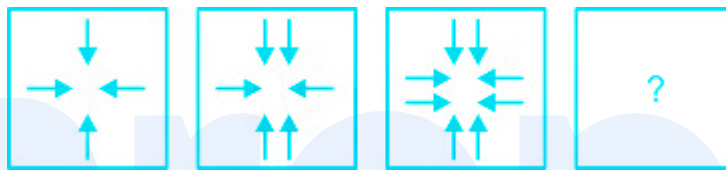
- a. None of the conclusions follow
- b. Only conclusion I follows
- c. All the conclusions follow
- d. Only conclusion III follows

6. 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)





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



d.

8. In a certain code language, 'ri ti gi' is written as 'Usha playing cards', 'si ni gi' is written as 'Asha playing tennis' and 'ri si wi' is written as 'cards and tennis'. What is the code for the word 'tennis' in that language? (+1, -0.25)

- a. ni
- b. ri
- c. wi
- d. si

9. In a certain code language, 'PIZZA' is written as 'QJAAB' and 'BLACK' is written as 'CMBDL'. How will 'BUZZY' be written in that language? (+1, -0.25)

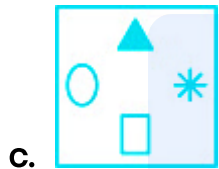
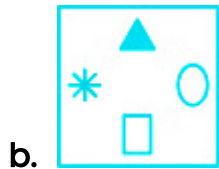
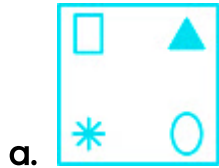
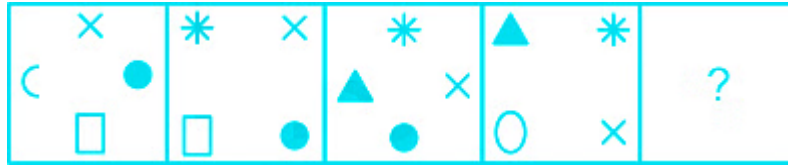
- a. CVAZZ
- b. CVAAZ
- c. CVABZ
- d. CTAAZ

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

$$352 \times 8 - 330 + 125 \div 4 = 214$$

- a. + and ×
- b. - and ÷
- c. + and ÷
- d. × and ÷

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



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12. A, B, C, D, E, F and G give a test. A scores more than B, C and D. G scores more than E and F. F scores more than A. Who scores the highest in the test? (+1, -0.25)

- a. F
- b. A
- c. E
- d. G

13. 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)

DGP : WTK :: MOS : ?

- a. NEH
 - b. MLH
 - c. NLT
 - d. NLH
-
14. Select the option in which the numbers are related in the same way as are the numbers of the following sets. (+1, -0.25)

(2, 4, 36)

(4, 6, 100)

- a. (8, 4, 1020)
 - b. (12, 4, 230)
 - c. (4, 4, 64)
 - d. (14, 2, 75)
-

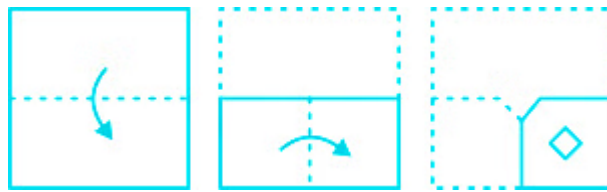
15. Select the option that is related to the sixth number in the same way as the first number is related to the second number and the third number is related to the fourth number. (+1, -0.25)

1503 : 3004 :: 871 : 1740 :: ? : 142

- a. 98

- b. 110
- c. 72
- d. 65

16. 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.

17. Nine people Asha, Bishal, Carol, Dinky, Emily, Farah, Golu, Harsh, and Itika (+1, -0.25) are watching a movie in a theatre sitting in a straight row facing North. Bishal is at one end of the row. Harsh is seated adjacent to both Farah and

Golu. Carol is to the immediate right of Dinky and in the third place to the right of Emily. Asha is on the immediate left of Farah. Farah is in the third place to the left of Bishal. Who are at the ends of the row?

- a. Bishal and Dinky
- b. Harsh and Itika
- c. Carol and Emily
- d. Emily and Bishal

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

A 1 : E 3 :: M 7 : Q 9 :: S 5 : ?

- a. W 7
- b. U 7
- c. W 5
- d. V 7

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

6, 9, 7, 10, 8, 11, ?

- a. 12
- b. 9
- c. 11

d. 10

-
20. 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:

No atom is a molecule.

No molecule is an element.

Conclusions:

I. It is possible for some atoms to be elements.

II. Some elements are molecules.

- a. Only conclusion I follows
- b. Both conclusions I and II follow
- c. Only conclusion II follows
- d. Neither conclusion I nor II follows

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

$$40 \times 10 - 20 + 10 \div 2 = ?$$

- a. 4
- b. 8
- c. 6

d. 2

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

ROM : SRT :: PNA : ?

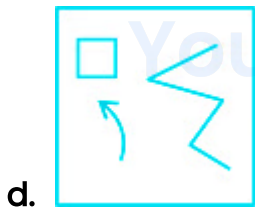
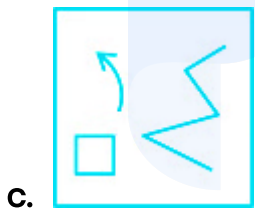
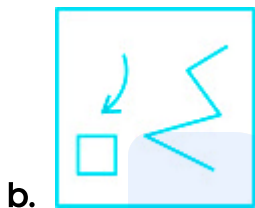
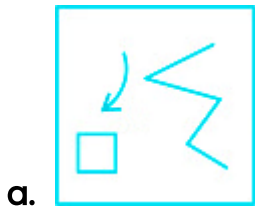
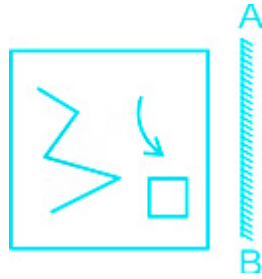
- a. QQH
 - b. QQI
 - c. RQI
 - d. QRH
-

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

TX, ZD, FJ, LP, ?

- a. RU
 - b. SV
 - c. SU
 - d. RV
-

24. Select the correct mirror image of the given figure when the mirror is (+1, -0.25) placed at line AB as shown.



25. In a certain code language, 'POINT' is coded as '11', and 'GRANDST' is coded as '11'. (+1, -0.25)

How will 'HEMANT' be coded in that language?

- a. 8
- b. 4

c. 9

d. 7

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Numerical Aptitude

26. An article is sold for Rs. 4,800 at a profit of 20%. If the selling price is increased by Rs. 600, then what will be the profit percentage? (+1, -0.25)
- a. 40%
 - b. 25%
 - c. 30%
 - d. 35%
-
27. What is the difference between the compound interest and the simple interest on Rs. 2,000 at 10% interest per annum for 2 years, if, for compound interest, interest is compounded annually? (+1, -0.25)
- a. Rs. 20
 - b. Rs. 40
 - c. Rs. 80
 - d. Rs. 60
-
28. Find the single discount equivalent to two successive discounts of 10% and 5%. (+1, -0.25)
- a. 85.5%
 - b. 90%
 - c. 75.5%
 - d. 14.5%
-

29. A is 40% less than 60% of 1500. What is the value of A? (+1, -0.25)

- a. 500
- b. 480
- c. 540
- d. 360

30. $P = 18 \times 9 \div 6 + 5 \times 15 \div 25$ and $Q = 15 \div 5 \times 5 - 25 \div 5$, what is the value of $(P \div Q)$? (+1, -0.25)

- a. 2.5
- b. 2
- c. 3
- d. 1.5

31. If A, B and C are three distinct prime numbers, then what is the highest common factor of A, B and C? (+1, -0.25)

- a. 7
- b. 0
- c. 5
- d. 1

32. What is the value of p in the following equation? (+1, -0.25)

$$64 - [16 + \{23 - (12 + 10)\}] = p$$

- a. 47
- b. 49
- c. 81
- d. 3

33. If the mean of two numbers is 12, and the difference between the two numbers is 6, find the two numbers. (+1, -0.25)

- a. 2 and 22
- b. 14 and 10
- c. 15 and 9
- d. 3 and 24

34. The average of T 1 and T 2 is 15. The average of T 3 and T 4 is 35. What is the average of T 1, T 2, T 3 and T 4? (+1, -0.25)

- a. 24
- b. 30
- c. 28
- d. 25

35. Tap A can fill an empty tank in 8 hours if no other tap is open, and tap B can empty the same tank, when filled, in 12 hours, when no other tap is (+1, -0.25)

open. Find the time taken to fill the same tank, when empty, if both the taps are opened together.

- a. 12 hours
- b. 16 hours
- c. 24 hours
- d. 36 hours

36. Rs. 2,300 is to be divided among P, Q, R and S in such a way that the ratio of P : Q : R : S is 2 : 6 : 9 : 6, respectively. (+1, -0.25)

What is the sum of the shares of P and S?

- a. Rs. 1,100
- b. Rs. 1,200
- c. Rs. 800
- d. Rs. 230

37. Pia and Ria can complete a project together in 26 days. Pia alone can complete the project in 78 days. They start working together but Pia leaves after 12 days. In how many days can Ria complete the remaining work of the project? (+1, -0.25)

- a. 21 days
- b. 24 days
- c. 25 days
- d. 13 days

-
38. The compound interest received on Rs. 18,000 for 2 years is Rs. 7,920, (+1, -0.25)
when the interest is compounded annually. What is the rate of interest per annum?
- a. 15%
 - b. 12.5%
 - c. 20%
 - d. 25%
-
39. A room is in the shape of a cuboid of dimensions 4 m, 2 m and 8 m. If a (+1, -0.25)
bag of grain occupies a space of 0.50 m^3 , then how many such bags can be stored in the room?
- a. 128 bags
 - b. 144 bags
 - c. 108 bags
 - d. 118 bags
-
40. A train completely crosses a bridge of length 80 m in 15 s. Find the length (+1, -0.25)
of the train if its speed is 72 km/h.
- a. 300 m
 - b. 220 m
 - c. 150 m
 - d. 270 m
-

41. The selling price and the cost price of a cup are Rs. 576 and Rs. 800 respectively. What is the loss percentage? (+1, -0.25)

- a. 22%
- b. 28%
- c. 24%
- d. 32%

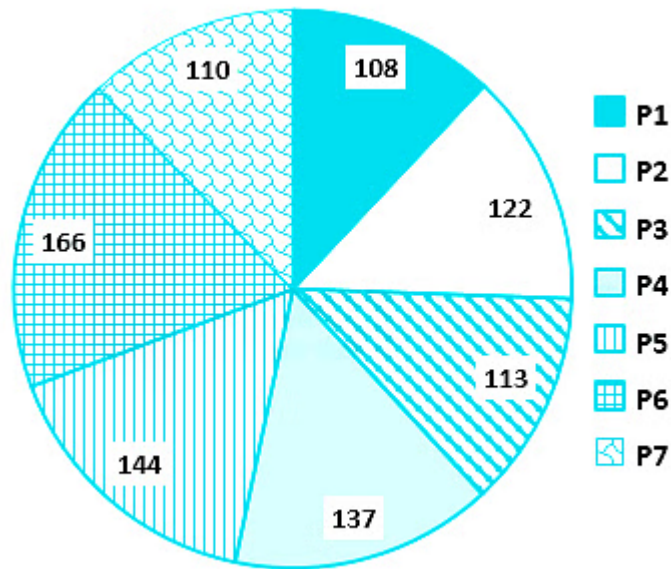
42. How many identical solid cubes, each having sides that are 3 cm long, can be formed by melting a solid cuboid, whose length, breadth and height are 9 cm, 12 cm and 15 cm, respectively? (+1, -0.25)

- a. 50
- b. 120
- c. 60
- d. 90

43. If $8 : x :: x : 32$, find the positive value of x . (+1, -0.25)

- a. 20
- b. 16
- c. 4
- d. 12

44. The following pie chart shows the actual number of photographs shared by a person on each of 7 different social media platforms. (+1, -0.25)



What is the difference between the central angles made by sector P5 and sector P1?

- a. 18°
- b. 10.8°
- c. 14.4°
- d. 21.6°

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45. The length of each side of a square is 16 cm. What is the area of the square? (+1, -0.25)

- a. 112 cm^2
- b. 176 cm^2
- c. 128 cm^2
- d. 256 cm^2

46. A truck is running at a speed of 75 km/h. In 4 hours, how much distance will it cover? (+1, -0.25)

- a. 280 km
- b. 300 km
- c. 240 km
- d. 320 km

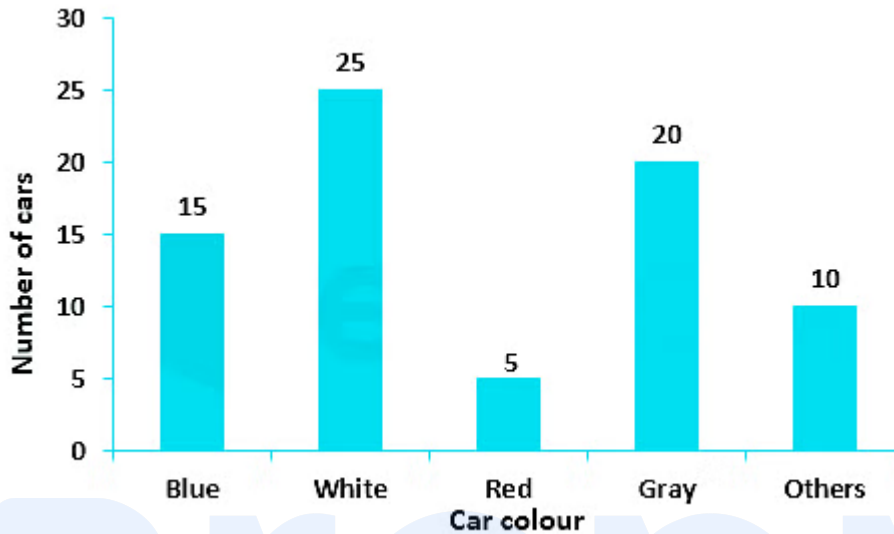
47. The following table shows the total sale of cars of four companies from 2015 to 2018. (+1, -0.25)

YEAR/CAR	TATA	HYUNDAI	MAHINDRA	TOYOTA
2015	465	472	486	482
2016	375	427	379	419
2017	246	357	236	523
2018	456	357	484	475

In which year was the total number of cars sold by these four companies taken together the maximum?

- a. 2015
- b. 2018
- c. 2017
- d. 2016

48. The following graph shows the number of cars of different colours in a society. (+1, -0.25)



What is the approximate percentage of white colour cars out of all cars in the society?

- a. 66.67%
 - b. 33.33%
 - c. 15%
 - d. 25%
-
49. An alloy contains 30 per cent aluminium. What quantity of alloy will have 300 gm of aluminium? (+1, -0.25)
- a. 0.8 kg
 - b. 1 kg
 - c. 1.2 kg

d. 0.6 kg

50. The mean of five numbers is 45. If a sixth number is also included, the mean becomes 48. Find the sixth number. (+1, -0.25)

a. 73

b. 63

c. 43

d. 53

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General English

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

One of the baby elephants broke off from the herd and lost its way.

- a. No improvement required
- b. in
- c. down
- d. away

-
52. Direction: Select the most appropriate ANTONYM of the given word. (+1, -0.25)

Sturdy

- a. Delicate
- b. Dragging
- c. Tiny
- d. Drab

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

_____ is going to take the responsibility for this failure?

- a. Whom
- b. Who

- c. Which
 - d. Whose
-

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

Pleasant

- a. Awful
 - b. Delightful
 - c. Faithful
 - d. Sorrowful
-

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

One who believes in fate

- a. Fatalist
 - b. Optimist
 - c. Mercenary
 - d. Ascetic
-

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

To take with a grain of salt

- a. To take seriously

- b. To have total disbelief
- c. To believe with some scepticism
- d. To accept wholeheartedly

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

We usually sleep in bedrooms with the door firmly shuted behind us.

- a. We usually sleep in
- b. bedrooms with the door
- c. No error
- d. firmly shuted

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

You have to constant consider how your personal behaviour is going to impact everyone around you.

- a. You have to constant consider
- b. No error
- c. to impact everyone around you

d. how your personal behaviour is going

59. Direction: Select the option that will improve the bracketed part of the sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

(Neither of the leading political parties have had much) success in the southern region.

- a. No improvement required
 - b. Neither of the leading political parties has had much
 - c. Neither of the leading political party has had much
 - d. Neither of the leading political parties have had any
-

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

The collection and study of postage stamps

- a. Philately
 - b. Ornithology
 - c. Philosophy
 - d. Philanthropy
-

61. Direction: Select the INCORRECTLY spelt word. (+1, -0.25)

- a. Barricade
- b. Prosperity

- c. Bouket
 - d. Dissatisfied
-

62. Direction: Select the option that corrects the misspelt words in the given sentence. (+1, -0.25)

He maintins the unity and fredom of the suol.

- a. He maintains the unity and freedom of the soul.
 - b. He maintains the unity and freedomm of the soul.
 - c. He maintins the unitty and freedom of the soul.
 - d. He maintins the unity and fredom of the soul.
-

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

Make a living

- a. To abuse someone
 - b. To make excuses for everything
 - c. To earn enough money for things you need
 - d. To rely on corrupt money
-

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

A person who sells flowers

- a. Florist

- b. Horticulturist
 - c. Chauffeur
 - d. Invigilator
-

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

Miniature

- a. Teeny
 - b. Mammoth
 - c. Average
 - d. Miniscule
-

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

Most employers _____ the use of mobile phones during office hours.

- a. prohibit
 - b. submerge
 - c. cultivate
 - d. spirit
-

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

A disturbed state of mind caused by an illness.

- a. Delirium
 - b. Discrepancy
 - c. Dilemma
 - d. Depreciation
-

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

Your infidelity have given me too much pain in life.

- a. given me too
 - b. much pain in life
 - c. No error
 - d. Your infidelity have
-

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

His wise choice of men like Wolfe in Canada and Clive in India, and his vigorous measures in managing foreign affairs, made England respected in every part of the world.

- a. wisely chosen
- b. wisely choice

- c. No substitution required
- d. wise choose

70. Direction: Select the most appropriate synonym of the underlined word in the given sentence. (+1, -0.25)

These colours add a vivacious and fairy-like effect to my dress.

- a. repressed
- b. impassive
- c. sparky
- d. gloomy

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

In Andhra Pradesh, low rainfall and increased _____ (1) _____ on borewells have led to soil aridity, while _____ (2) _____ snow and more rainfall has _____ (3) _____ the desertification crisis in Himachal Pradesh. On the other _____ (4) _____, in Rajasthan, canals, tube-well irrigation and shelterbelts have _____ (5) _____ to an increase in the green cover.

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

- a. growth
- b. support
- c. addiction

d. dependence

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

In Andhra Pradesh, low rainfall and increased _____ (1) _____ on borewells have led to soil aridity, while _____ (2) _____ snow and more rainfall has _____ (3) _____ the desertification crisis in Himachal Pradesh. On the other _____ (4) _____, in Rajasthan, canals, tube-well irrigation and shelterbelts have _____ (5) _____ to an increase in the green cover.

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

- a. few
- b. least
- c. less
- d. fewer

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

In Andhra Pradesh, low rainfall and increased _____ (1) _____ on borewells have led to soil aridity, while _____ (2) _____ snow and more rainfall has _____ (3) _____ the desertification crisis in Himachal Pradesh. On the other _____ (4) _____, in Rajasthan, canals, tube-well irrigation and shelterbelts have _____ (5) _____ to an increase in the green cover.

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

- a. deepen
- b. deepened
- c. deeper
- d. deep

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

In Andhra Pradesh, low rainfall and increased _____ (1) _____ on borewells have led to soil aridity, while _____ (2) _____ snow and more rainfall has _____ (3) _____ the desertification crisis in Himachal Pradesh. On the other _____ (4) _____, in Rajasthan, canals, tube-well irrigation and shelterbelts have _____ (5) _____ to an increase in the green cover.

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

- a. half
- b. hand
- c. sides
- d. case

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

In Andhra Pradesh, low rainfall and increased _____ (1) _____ on borewells have led to soil aridity, while _____ (2) _____ snow and more rainfall has _____ (3) _____ the desertification crisis in

Himachal Pradesh. On the other _____ (4) _____, in Rajasthan, canals, tube-well irrigation and shelterbelts have _____ (5) _____ to an increase in the green cover.

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

- a. lead
- b. led
- c. leading
- d. leads

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General Awareness

76. In which state of India is the Iravatanesvara temple situated? (+1, -0.25)

- a. Telangana
- b. West Bengal
- c. Tamil Nadu
- d. Rajasthan

77. Which of the following cities existed in the Indus Valley Civilization? (+1, -0.25)

- a. Harappa
- b. Sanchi
- c. Muziris
- d. Ayodhya

78. What is the atomic number of Carbon as per Mendeleev's Periodic Table? (+1, -0.25)

- a. 3
- b. 6
- c. 1
- d. 10

79. The study of human populations including their size, composition and distribution across space and the process through which populations (+1, -0.25)

change is called _____.

- a. demography
 - b. ethnography
 - c. stenography
 - d. topography
-

80. Which of the following pairs of folk dance and the state associated with is INCORRECT? (+1, -0.25)

- a. Giddha - Punjab
 - b. Wancho - Arunachal Pradesh
 - c. Ghumar - Bihar
 - d. Nongkrem - Meghalaya
-

81. Which of the following rivers rises in the Nepal Himalayas? (+1, -0.25)

- a. Betwa
 - b. Chenab
 - c. Ghaghara
 - d. Chambal
-

82. How many different levels of courts are there in India? (+1, -0.25)

- a. Three

- b. Four
- c. Five
- d. Two

83. Aves are warm-blooded animals and have a _____ heart. (+1, -0.25)

- a. four-chambered
- b. two-chambered
- c. five-chambered
- d. three-chambered

84. Ustad Zakir Hussain is a famous Indian _____ player. (+1, -0.25)

- a. Violin
- b. Guitar
- c. Sitar
- d. Tabla

85. Joint sector industry is one of the classifications of industries on the basis of _____. (+1, -0.25)

- a. capital investment
- b. bulk and weight of raw material
- c. Ownership
- d. source of raw material

86. As per Census 2011, which of the following metro cities was the most populated in India? (+1, -0.25)

- a. Kolkata
 - b. Chennai
 - c. Delhi
 - d. Mumbai
-

87. Which Indian state government launched Project Sadbhavana in February 2022? (+1, -0.25)

- a. Maharashtra
 - b. Tamil Nadu
 - c. Gujarat
 - d. Assam
-

88. In which year did Tipu Sultan die defending his capital Seringapatam? (+1, -0.25)

- a. 1799
 - b. 1802
 - c. 1792
 - d. 1794
-

89. In the Union Budget of India 2022, what percentage of tax has been levied on transfer of digital assets (cryptocurrency)? (+1, -0.25)

- a. 20 percentage
- b. 5 percentage
- c. 30 percentage
- d. 10 percentage

90. Ajit Kumar Doval is the fifth and current _____ to the Prime Minister of India. (+1, -0.25)

- a. Private Secretary
- b. Principal Secretary
- c. National Security Advisor
- d. Additional Secretary

91. Which of the following teams won the ICC Women's World Cup 2021/22? (+1, -0.25)

- a. Australia
- b. South Africa
- c. England
- d. India

92. Padma Subrahmanyam is known for which classical dance form? (+1, -0.25)

- a. Bharatanatyam
- b. Kathak

- c. Kuchipudi
 - d. Mohiniyattam
-

93. Which of the following does NOT fall under Non-Chordates? (+1, -0.25)

- a. Annelida
 - b. Porifera
 - c. Vertebrata
 - d. Mollusca
-

94. Which of the following is one of the key features of the Indian Constitution? (+1, -0.25)

- a. Autocratic government
 - b. Non-secular
 - c. Federalism
 - d. Dependent Judiciary
-

95. _____ was founded by the Dadoba Pandurang and his brother Atmaram Pandurang in 1867 when Keshub Chandra Sen visited Maharashtra, with an aim to make people believe in one God and worship only one God. (+1, -0.25)

- a. Brahmo Samaj
- b. Satyashodhak Samaj
- c. Prarthana Samaj

d. Arya Samaj

96. Which planet in the solar system is considered as Earth's twin? (+1, -0.25)

a. Mercury

b. Saturn

c. Neptune

d. Venus

97. Who among the following Chola rulers built Nishumbhasudini Goddess temple in Thanjavur? (+1, -0.25)

a. Aditya I

b. Vijayalaya

c. Rajaraja I

d. Arinjaya

98. What is the name of Mahatma Gandhi's autobiography? (+1, -0.25)

a. Justice for the Judge

b. The Story of My Experiments with Truth

c. The Bandit Queen of India

d. My Music, My Life

99. Who among the following is the first Indian Grandmaster to become Women's Chess World Rapid Champion? (+1, -0.25)

- a. Bhakti Kulkarni
 - b. Koneru Humpy
 - c. Tania Sachdev
 - d. Harika Dronavalli
-

100. The International Sand Art festival is usually held in _____. (+1, -0.25)

- a. Kerala
- b. Maharashtra
- c. Tamil Nadu
- d. Odisha

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Answers

1. Answer: a

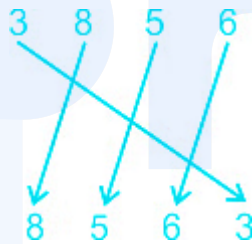
Explanation:

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

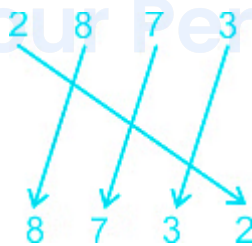
The logic followed here is:

Letters is coded as their place value.

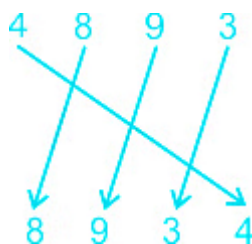
3856 : 8563



2873 : 8732



Similarly, for 4893 : ?



Hence, the correct answer is "Option 1".

2. Answer: d

Explanation:

Given: Six people Ali, Parth, Roy, Minal, Sudhir and Zeeshan.

- 1) Ali and Parth are at the corners.
- 2) Roy is sitting to the immediate left of Ali.



- 3) Sudhir and Zeeshan are in the centre.



And, Minal will sit on the remaining place.



So, 'Minal' is sitting to the immediate right of Parth.

Hence, the correct answer is "Minal".

3. Answer: d

Explanation:

The logic followed here is:

Given:

'Flames are bright' is written as '@ # %'.

'Bright is sun flames' is written as '* # 7 @'.

Flames are bright → @ # %

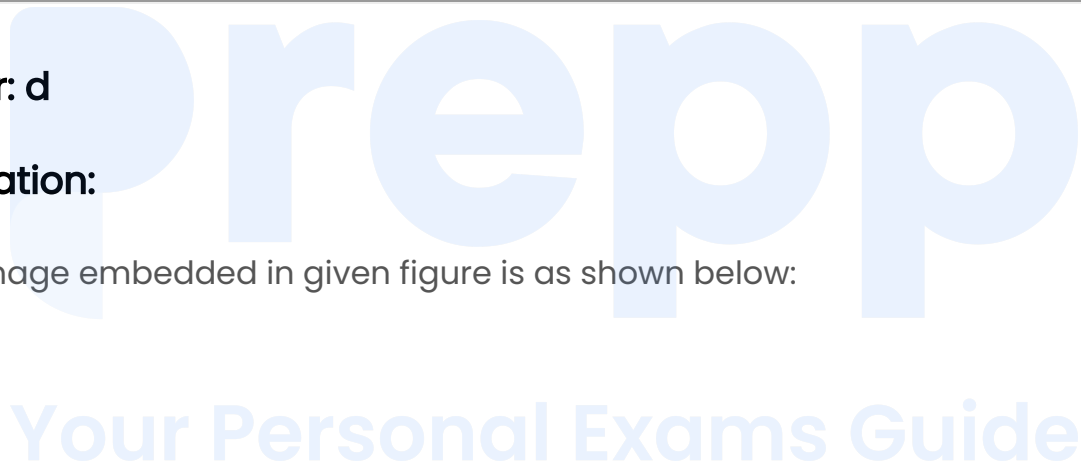
Bright is sun Flames → * # 7 @









'are' is coded as '%'.
Either 'is' or 'sun' is coded as '*' or '7'..
Either 'Flames' or 'Bright' is coded as '@' or '%'.
Here, 7 is not given in the option,
so 'is' will be coded as '*'.
Hence, the correct answer is "Option 4".

4. 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.

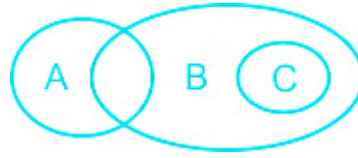
5. Answer: a

Explanation:

Statement:

- I. Some A are B.
- II. All C are B.

The least possible diagram for the given statements is as follows:



Conclusions:

(i) Some B are A's is a possibility - False (Because Some A are B is definitely, so possibility false).

(ii) No C is A - False (No direct relation given between them, so It can be possible not definite).

III. All A are C - False (No direct relation given between them, so It can be possible not definite).

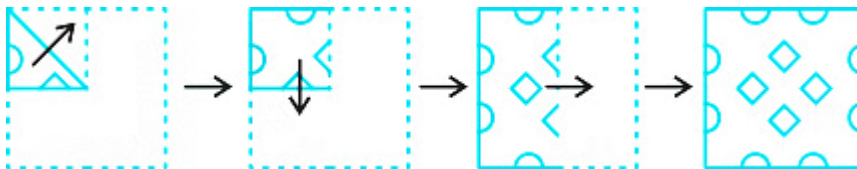
Here, None of the conclusions follow.

Hence, the correct answer is "Option 1".

6. Answer: c

Explanation:

The paper when unfolded will appear as shown below:



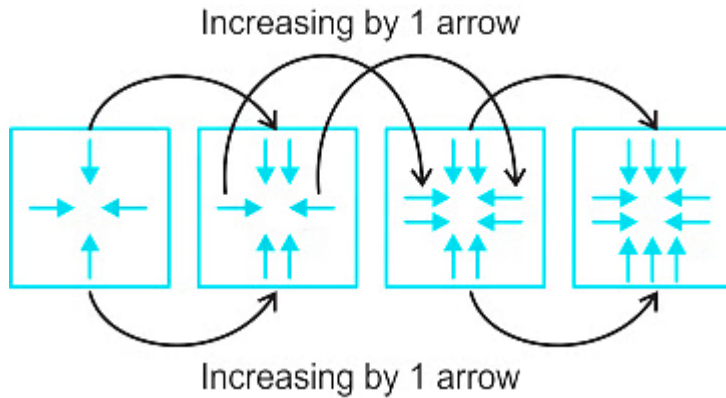
Hence, 'option 3' is the correct answer.

7. Answer: c

Explanation:

The logic followed here is:

The arrow is getting increased by +1 in the next box.



So, Option 3 will complete the series.

Hence, the correct answer is "Option 3".

8. Answer: d

Explanation:

The logic followed here is:

'ri ti gi' is written as 'Usha playing cards',

'si ni gi' is written as 'Asha playing tennis'

'ri si wi' is written as 'cards and tennis'

ri ti (gi) → Usha (playing) cards

si ni (gi) → Asha (playing) tennis

ri (si) wi → cards and tennis

Here,

'Playing' will be coded as 'gi'.

'Tennis' will be coded as 'si'.

'Cards' will be coded as 'ri'.

So, 'Tennis' will be coded as 'si'.

Hence, the correct answer is "Option 4".

9. Answer: b

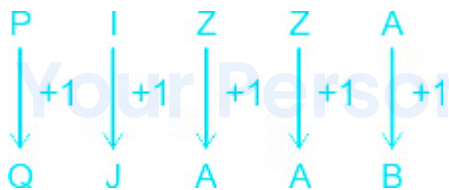
Explanation:

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

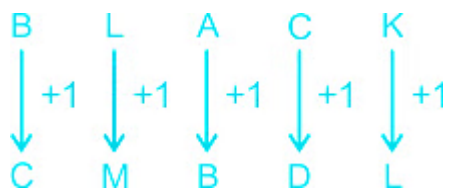
The logic followed here is:

Letters + 1.

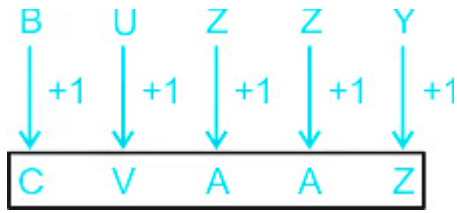
'PIZZA' is written as 'QJAAB'.



'BLACK' is written as 'CMBDL'.



Similarly, for 'BUZZY'



So, 'BUZZY' will be written as 'CVAAZ'.

Hence, the correct answer is "Option 2".

10. Answer: d

Explanation:

Given equation: $352 \times 8 - 330 + 125 \div 4 = 214$.

BODMAS Table:

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

Let's check each option one by one.

Option 1) + and ×

Given: $352 \times 8 - 330 + 125 \div 4 = 214$

After interchanging the Symbols & Numbers we get;

$\Rightarrow 352 + 8 - 330 \times \underline{125 \div 4} = 214$

$\Rightarrow 352 + 8 - \underline{330 \times 31.25} = 214$

$\Rightarrow \underline{352 + 8} - 10312.50 = 214$

$$\Rightarrow \underline{360 - 10312.50} = 214$$

$$\Rightarrow -9952.5 \neq 214$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 2) - and \div

$$\text{Given: } 352 \times 8 - 330 + 125 \div 4 = 214$$

After interchanging the Symbols & Numbers we get;

$$\Rightarrow 352 \times \underline{8 \div 330} + 125 - 4 = 214$$

$$\Rightarrow 352 \times 0.27 + 125 - 4 = 214$$

$$\Rightarrow \underline{95.04 + 125} - 4 = 214$$

$$\Rightarrow \underline{220.04 - 4} = 214$$

$$\Rightarrow 216.04 \neq 214$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 3) + and \div

$$\text{Given: } 352 \times 8 - 330 + 125 \div 4 = 214$$

After interchanging the Symbols & Numbers we get;

$$\Rightarrow 352 \times 8 - \underline{330 \div 125} + 4 = 214$$

$$\Rightarrow \underline{352 \times 8} - 2.64 + 4 = 214$$

$$\Rightarrow \underline{2816} - 2.64 + \underline{4} = 214$$

$$\Rightarrow \underline{2820} - 2.64 = 214$$

$$\Rightarrow 2817.36 \neq 214$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 4) \times and \div

Given: $352 \times 8 - 330 + 125 \div 4 = 214$

After interchanging the Symbols & Numbers we get;

$\Rightarrow \underline{352 \div 8} - 330 + 125 \times 4 = 214$

$\Rightarrow 44 - 330 + \underline{125 \times 4} = 214$

$\Rightarrow \underline{44} - 330 + \underline{500} = 214$

$\Rightarrow \underline{544} - \underline{330} = 214$

$\Rightarrow 214 = 214$

$\Rightarrow \text{LHS} = \text{RHS}$

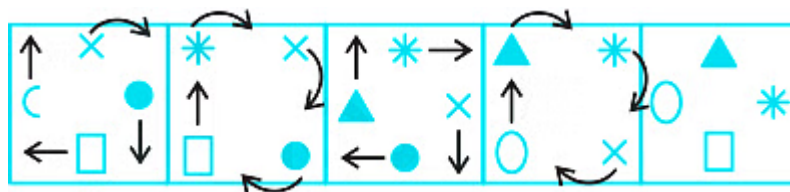
Hence, the correct answer is "Option 4".

11. Answer: c

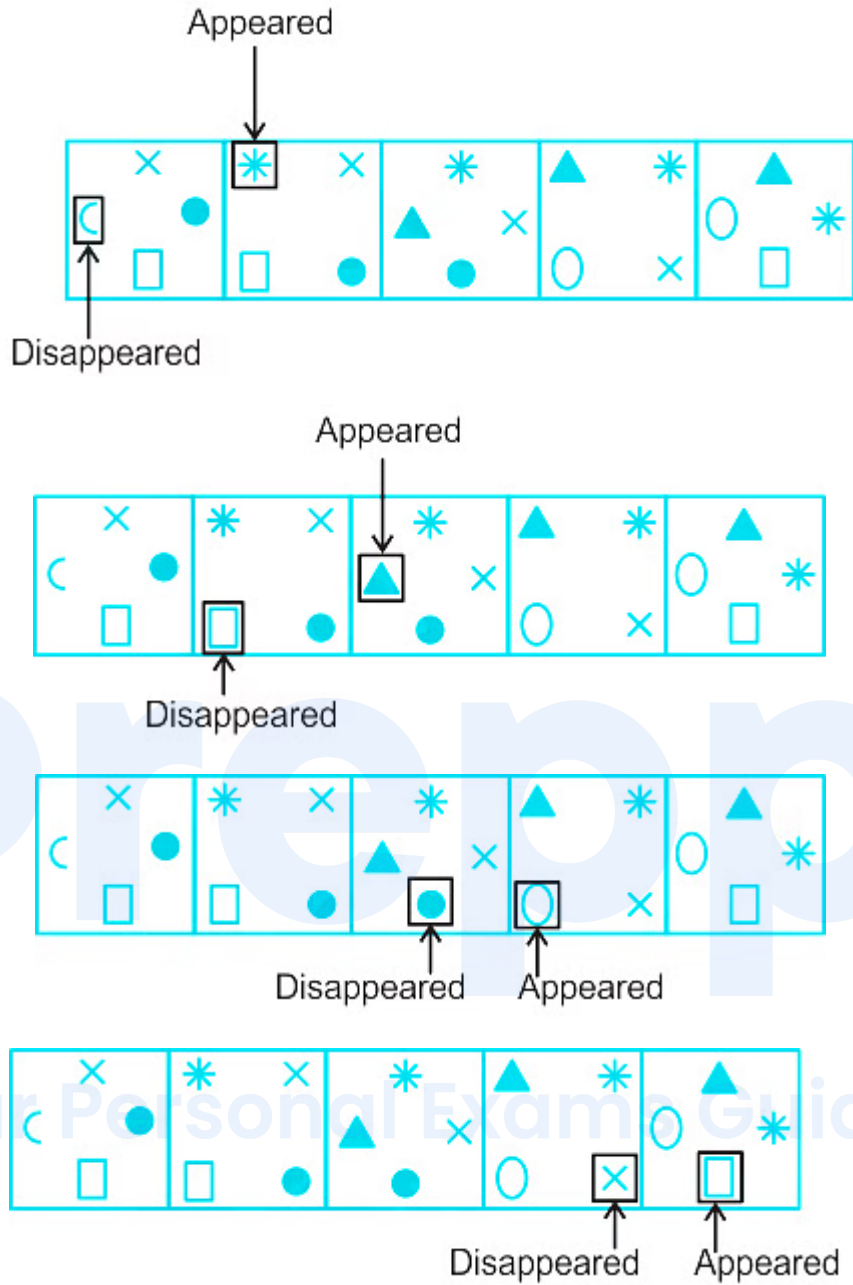
Explanation:

The logic followed here is:

1) Every element is moving clockwise direction.



2) One element is omitted in anticlockwise direction in every step and a different element has appeared in every next step.



Hence the correct answer is "Option 3".

12. Answer: d

Explanation:

Given: Seven person: A, B, C, D, E, F and G.

1) A scores more than B, C and D.

$A > B, C, D$

2) F scores more than A.

$F > A > B, C, D$

3) G scores more than E and F.

$G > E \ \& \ F; F > A > B, C, D$

So, 'G' scores the highest in the test.

Hence, the correct answer is "G".

13. 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

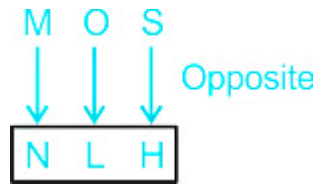
The logic followed here is:

Letters is coded as their Opposite letter.

DGP : WTK



Similarly, for MOS : ?



Hence, the correct answer is "Option 4".

14. Answer: c

Explanation:

The logic followed here is:

$$(1\text{st number} + 2\text{nd number})^2 = 3\text{rd number.}$$

Now,

$$(2, 4, 36)$$

$$\Rightarrow (2 + 4)^2 \rightarrow 6^2 = 36$$

For (4, 6, 100)

$$\Rightarrow (4 + 6)^2 \rightarrow 10^2 = 100.$$

Now, checking the options:

Option 1: (8, 4, 1020)

$$\Rightarrow (8 + 4)^2 \rightarrow 12^2 = 144 \neq 1020.$$

Option 2: (12, 4, 230)

$$\Rightarrow (12 + 4)^2 \rightarrow 16^2 = 256 \neq 230.$$

Option 3: (4, 4, 64)

$$\Rightarrow (4 + 4)^2 \rightarrow 8^2 = 64 = 64.$$

Option 4: (14, 2, 75)

$$\Rightarrow (14 + 2)^2 \rightarrow 16^2 = 256 \neq 75.$$

Hence, the correct answer is "Option 3".

15. Answer: c

Explanation:

The logic followed here is:

$$(1\text{st number} \times 2) - 2 = 2\text{nd number.}$$

Now, 1503 : 3004

$$\begin{aligned} &\rightarrow (1503 \times 2) - 2 \\ &= 3006 - 2 = 3004. \end{aligned}$$

For, 871 : 1740

$$\begin{aligned} &\rightarrow (871 \times 2) - 2 \\ &= 1742 - 2 = 1740. \end{aligned}$$

Similarly, for ? : 142

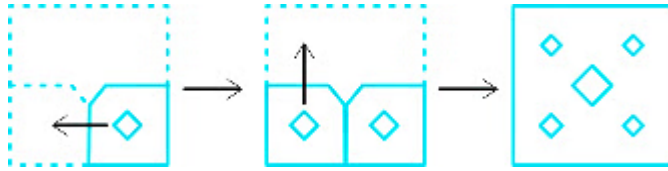
$$\begin{aligned} &\rightarrow (? \times 2) - 2 = 142 \\ &\rightarrow (? \times 2) = 142 + 2 \\ &\rightarrow (? \times 2) = 144 \\ &= ? = 144/2 = 72. \end{aligned}$$

Hence, the correct answer is "Option 3".

16. Answer: a

Explanation:

The paper when unfolded will appear as shown below:



Hence, 'option 1' is the correct answer.

17. Answer: d

Explanation:

Given: Nine people Asha, Bishal, Carol, Dinky, Emily, Farah, Golu, Harsh, and Itika.

- 1) Bishal is at one end of the row.
- 2) Farah is in the third place to the left of Bishal.
- 3) Asha is on the immediate left of Farah.



- 4) Harsh is seated adjacent to both Farah and Golu.



- 5) Carol is to the immediate right of Dinky and in the third place to the right of Emily.



And, Itika will sit on the remaining place.



Here, 'Emily and Bishal' are at the ends of the row.

Hence, the correct answer is "Option 4".

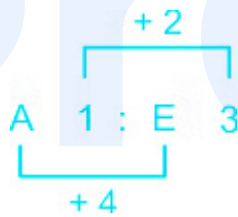
18. Answer: a

Explanation:

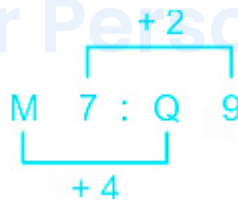
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is: **Letter + 4, Number + 2**

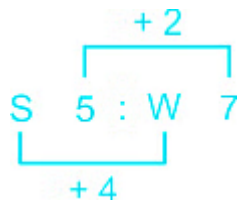
For, A 1 : E 3



For, M 7 : Q 9



Similarly, for S 5 :

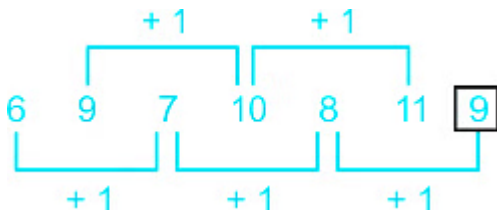


Hence, the correct answer is "Option 1".

19. Answer: b

Explanation:

The logic followed here is:



Here, '9' will complete the series.

Hence, the correct answer is "9".

20. Answer: a

Explanation:

Statement:

No atom is a molecule.

No molecule is an element.

The least possible diagram for the given statements is as follows:



Conclusions:

(i) It is possible for some atoms to be elements - **True** (Because there is No direct relation given between Atoms and Elements, so it can be possible).

(ii) Some elements are molecules - **False**(Because No molecule is an element).

Here, Only conclusion I follows.

Hence, the correct answer is "Option 1".

21. Answer: a

Explanation:

BODMAS Table:

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

Given equation: $40 \times 10 - 20 + 10 \div 2 = ?$

Now, if '+' and '-' and 'x' and '÷' are interchanged, then:

$$\Rightarrow 40 \div 10 - 20 + 10 \times 2$$

$$\Rightarrow 4 - 20 + 10 \times 2$$

$$\Rightarrow 4 - 20 + 20$$

$$\Rightarrow 4 - 20 = 4.$$

Hence, the correct answer is "Option 1".

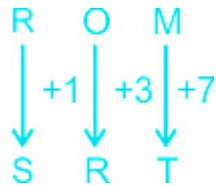
22. Answer: a

Explanation:

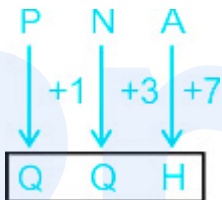
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

ROM : SRT



Similarly, for PNA : ?



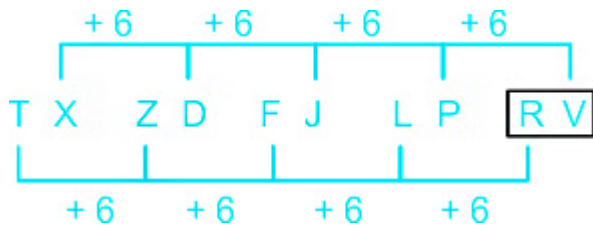
Hence, the correct answer is "Option 1".

23. 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:



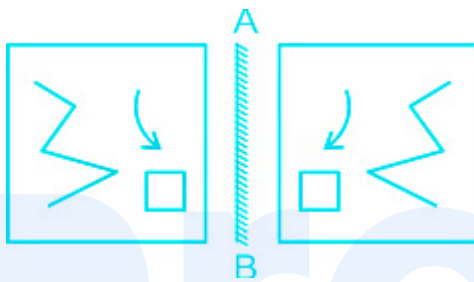
Here, 'RV' will complete the series.

Hence, the correct answer is "RV".

24. Answer: b

Explanation:

The correct mirror image of the given figure is:



Hence, the correct answer is "Option 2".

25. 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:

'POINT' is coded as '11'.

$$P = 16, O = 15, I = 9, N = 14, T = 20$$

$$\Rightarrow 16 + 15 + 9 + 14 + 20 = 74 \rightarrow 7 + 4 = 11.$$

'GRANDST' is coded as '11'.

$$G = 7, R = 18, A = 1, N = 14, D = 4, S = 19, T = 20$$

$$\Rightarrow 7 + 18 + 1 + 14 + 4 + 19 + 20 = 83 \rightarrow 8 + 3 = 11.$$

Similarly,

for 'HEMANT',

$$H = 8, E = 5, M = 13, A = 1, N = 14, T = 20$$

$$\Rightarrow 8 + 5 + 13 + 1 + 14 + 20 = 61 \rightarrow 6 + 1 = 7.$$

So, "HEMANT" will be coded as "7".

Hence, the correct answer is "Option 4".

26. Answer: d

Explanation:

Given:

An article is sold for Rs. 4,800 at a profit of 20%

Concept Used:

$$\text{Cost Price} = \text{Selling Price} / (100 + \text{Profit}\%) \times 100$$

$$\text{Profit} = \text{Selling Price} - \text{Cost Price}$$

$$\text{Profit}\% = \text{Profit} / \text{Cost Price} \times 100$$

Calculation:

$$\text{Selling Price} = \text{Rs. } 4,800$$

$$\text{Profit}\% = 20\%$$

$$\text{Cost Price} = \text{Selling Price} / (100 + \text{Profit}\%) \times 100$$

$$\Rightarrow 4800/120 \times 100$$

$$\Rightarrow \text{Rs. } 4000$$

If the selling price is increased by Rs. 600

$$\text{New Selling Price} = 4800 + 600 = \text{Rs. } 5400$$

$$\text{Profit} = 5400 - 4000$$

$$\Rightarrow \text{Rs. } 1400$$

$$\text{Profit\%} = \text{Profit}/\text{Cost Price} \times 100$$

$$\Rightarrow 1400/4000 \times 100$$

$$\Rightarrow 35\%$$

\therefore Option 4 is the correct answer.

27. Answer: a

Explanation:

Given: **Your Personal Exams Guide**

Interest rate for first 2 years = 10%

$$P = 2,000$$

Calculations:

As we know,

$$A = P (1 + r/100)^2$$

$$\Rightarrow A = 2000 (1 + 10/100)^2$$

$$\Rightarrow A = 2,000 \times (11/10) \times (11/10)$$

$$\Rightarrow A = 20 \times 121$$

$$\Rightarrow A = 2420$$

$$\therefore CI = 2420 - 2000 = 420$$

$$SI = \frac{(2000 \times 10 \times 2)}{100} = 400$$

$$\text{Difference between CI and SI is} = 420 - 400 = 20$$

Hence, the required difference is 20.

\therefore Option 1 is the correct answer.

28. Answer: d

Explanation:

Given:

2 successive discounts of 10% and 5%.

Calculations:

Effective discount for a% and b% discounts = $a\% + b\% - (ab/100)\%$

Effective discount for 10% and 5% discounts = $10\% + 5\% - \{(10 \times 5)/100\}\%$

$$\Rightarrow 15\% - 0.50\%$$

$$\Rightarrow 14.50\%$$

\therefore Equivalent percent is 14.50%.

29. Answer: c

Explanation:

Give:

A is 40% less than 60% of 1500.

Calculation:

According to the question,

$$A = 60/100 \times 60/100 \times 1500$$

$$\Rightarrow \text{Rs. } 540$$

\therefore Option 3 is the correct answer.

30. Answer: c

Explanation:

Given:

$$P = 18 \times 9 \div 6 + 5 \times 15 \div 25$$

$$Q = 15 \div 5 \times 5 - 25 \div 5$$

Calculation:

$$P = 18 \times 9 \div 6 + 5 \times 15 \div 25$$

$$\Rightarrow 18 \times 9/6 + 5 \times 15/25$$

$$\Rightarrow 9 \times 3 + 3$$

$$\Rightarrow 30$$

$$Q = 15 \div 5 \times 5 - 25 \div 5$$

$$\Rightarrow 15/5 \times 5 - 25/5$$

$$\Rightarrow 15 - 5$$

⇒ 10

$$(P \div Q) = 30/10$$

⇒ 3

∴ Option 3 is the correct answer.

31. Answer: d

Explanation:

Given:

Three distinct prime numbers = A, B and C

Calculation:

Let the three distinct prime numbers be 3, 5 and 7

So, Factors of 3 = 1×3

Factors of 5 = 1×5

Factors of 7 = 1×7

The highest common factor of 3, 5 and 7 = 1

Hence, the highest common factor of A, B and C is 1.

∴ Option 4 is the correct answer.

32. Answer: a

Explanation:

Given:

$$64 - [16 + \{23 - (12 + 10)\}] = p$$

Concept used:

Follow the BODMAS rule according to the table given below:

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

Calculation:

$$64 - [16 + \{23 - (12 + 10)\}] = p$$

$$\Rightarrow 64 - [16 + \{23 - 22\}]$$

$$\Rightarrow 64 - [16 + 1]$$

$$\Rightarrow 64 - 17$$

$$\Rightarrow 47$$

∴ Option 1 is the correct answer.

33. Answer: c

Explanation:

Given:

The mean of the two numbers is 12.

The difference between the two numbers is 6.

Concept Used:

$$\text{Mean of two numbers} = (A + B)/2$$

Calculation:

Let the numbers be A and B.

The mean of the two numbers is 12.

$$\text{Mean of two numbers} = (A + B)/2$$

$$\Rightarrow (A + B)/2 = 12$$

$$\Rightarrow A + B = 24 \quad \text{.....(i)}$$

The difference between the two numbers is 6.

$$\Rightarrow A - B = 6 \quad \text{.....(ii)}$$

On solving (i) and (ii)

$$\Rightarrow A = 15 \text{ and } B = 9$$

\therefore Option 3 is the correct answer.

34. Answer: d

Explanation:

Given:

The average of T 1 and T 2 is 15.

The average of T 3 and T 4 is 35.

Concept Used:

Average = Sum of observations/Total observations

Calculation:

The average of T 1 and T 2 is 15.

$$\Rightarrow (T_1 + T_2)/2 = 15$$

$$\Rightarrow T_1 + T_2 = 30$$

The average of T 3 and T 4 is 35.

$$\Rightarrow (T_3 + T_4)/2 = 35$$

$$\Rightarrow T_3 + T_4 = 70$$

Sum of T₁, T₂, T₃, and T₄ = 30 + 70 = 100

Average of T₁, T₂, T₃ and T₄ = 100/4 = 25

∴ Option 4 is the correct answer.

35. Answer: c

Explanation:

Given:

Tap A filled an empty tank = 8 hours

Tap B empty a filled tank = 12 hours

Calculation:

Tap A filled a tank in 1 hour = (1/8)

Tap B empty a tank in 1 hour = (1/12)

Time required to filled a tank = (1/8) – (1/12)

$$= 1/24$$

$$= 24 \text{ hours}$$

∴ Time required to fill a tank is 24 hours.

∴ **Option 3 is the correct answer.**

36. Answer: c

Explanation:

Given

The shares of P, Q, R and S respectively = 2 : 6 : 9 : 6.

Total amount distributed in among P, Q, R and S = Rs. 2300.

Calculation:

Total amount distributed in among P, Q, R and S = Rs. 2300.

$$\text{Sum of share ratio of P and S} = 2 + 6 = 8$$

$$\text{Sum of the shares of P and S} = \frac{8}{23} \times 2300$$

$$\Rightarrow \text{Rs. } 800$$

∴ **Option 3 is the correct answer.**

37. Answer: a

Explanation:

Given:

Pia and Ria together can complete a work in 26 days

Pia alone can complete the same work in 78 days

After 12 days Pia left the work

Formula used:

Number of days = Total work/1 day's work (Efficiency)

Calculation:

Pia + Ria → 26 days

Pia → 78 days

Total work = LCM (26, 78) = 78 unit

Efficiency of Pia and Ria = $78/26 = 3$

Efficiency of Pia = $78/78 = 1$

Efficiency of Ria = $3 - 1 = 2$

Work done by Pia and Ria in 12 days = $3 \times 12 = 36$ unit

Remaining work = $78 - 36 = 42$ unit

Number of days Ria takes to complete the remaining work:

Number of days = Total work/1 day's work (Efficiency)

$\Rightarrow 42/2 = 21$ days

\therefore Option 1 is the correct answer.

38. Answer: c

Explanation:

Given:

The compound interest accrued on Rs. 18000 in two years is Rs. 7920.

Formula Used:

$$C.I = \text{Principal} \times ((1 + r/100)^t - 1);$$

Calculation:

$$\Rightarrow 7920 = 18000 \times ((1 + r/100)^2 - 1)$$

$$\Rightarrow 7920/18000 = ((1 + r/100)^2 - 1)$$

$$\Rightarrow 11/25 + 1 = (1 + r/100)^2$$

$$\Rightarrow 36/25 = (1 + r/100)^2$$

Take root both sides

$$\Rightarrow 6/5 = (1 + r/100)$$

$$\Rightarrow r/100 = 1/5$$

$$\Rightarrow r = 20$$

\therefore required rate of interest = 20%

\therefore Option 3 is the correct answer.

39. Answer: a

Explanation:

Given:

A room is in the shape of a cuboid of dimensions 4 m, 2 m and 8 m.

A bag of grain occupies a space of 0.50 m^3 .

Concept Used:

Volume of Cuboid = Length \times Breadth \times Height

Calculation:

Length of room = 4 m

Breadth of room = 2 m

Height of room = 8 m

Volume of Room = Length \times Breadth \times Height

$$\Rightarrow 4 \times 2 \times 8$$

$$\Rightarrow 64 \text{ m}^3$$

A bag of grain occupies a space of 0.50 m^3 .

Number of bags can be stored in room = $64/0.50 = 128$ bags

\therefore Option 1 is the correct answer.

40. Answer: b

Explanation:

Given:

Speed = 72 km/h

Length of bridge = 80 m

Time to cross the bridge = 14 sec

Concept Used:

The distance traveled by train to cross a bridge is equal to the sum of the lengths of the train and the bridge.

Speed = Distance/Time

Calculation:

Let the length of the train be x m.

$$\text{Speed} = 72 \times \frac{5}{18} = 20 \text{ m/s}$$

$$\text{Distance} = 20 \times 15 = 300 \text{ m}$$

$$\Rightarrow x + 80 = 300$$

$$x = 220 \text{ m}$$

\therefore Length of the train is 220 m.

\therefore Option 2 is the correct answer.

41. Answer: b

Explanation:

Given:

$$\text{Cost price} = \text{Rs. } 800$$

$$\text{Selling price} = \text{Rs. } 576$$

Formula used:

$$\text{Loss} = \text{Cost Price} - \text{Selling price}$$

$$\text{Loss percentage} = \frac{(\text{Cost Price} - \text{Selling price}) \times 100}{\text{Cost Price}}$$

Calculation:

Since, C.P. > S.P.

$$\Rightarrow \text{Loss percentage} = \frac{(800 - 576) \times 100}{800}$$

$$\Rightarrow \text{Loss percentage} = \frac{224 \times 100}{800}$$

⇒ Loss percentage = 28%

∴ The loss percentage is 28%.

∴ Option 2 is the correct answer.

42. Answer: c

Explanation:

Given:

A cube of side 3 cm is formed by melting the cuboid of a length of 9 cm, breadth of 12 cm, and height of 15 cm

Formula Used:

$$\text{Volume of cube} = a^3$$

$$\text{Volume of cuboid} = l \times b \times h$$

Calculation:

$$\text{Volume of cuboid} = l \times b \times h = 9 \times 12 \times 15 = 1620\text{cm}^3$$

$$\text{Volume of Cube} = a^3 = 3 \times 3 \times 3 = 27\text{cm}^3$$

Cuboid is melted to form Cube, then

$$\Rightarrow n \times \text{Volume of cube} = \text{Volume of cuboid}$$

$$\Rightarrow n \times 27 = 1620$$

$$\Rightarrow n = 60$$

⇒ Hence, The cube of side 3cm can be formed by melting cuboid is 60.

∴ Option 3 is the correct answer.

43. Answer: b

Explanation:

Given:

$$8 : x :: x : 32$$

Calculation:

$$8 : x :: x : 32$$

$$\Rightarrow 8/x = x/32$$

$$\Rightarrow x^2 = 8 \times 32$$

$$\Rightarrow x = \sqrt{256}$$

$$\Rightarrow x = 16$$

\therefore Option 2 is the correct answer.

44. Answer: c

Explanation:

Calculation:

Total number of photographs shared by a person on each of 7 different social media platforms = $108+122+113+137+144+166+110 = 900$

Complete angle made by circle is 360° .

$$\text{So, } 900 = 360^\circ$$

$$\Rightarrow 1 = 0.4^\circ$$

Difference between the photographs of P1 and P5 = $144 - 108$

⇒ 36

The central angles made by the difference of sector P5 and sector P1 = $0.4^\circ \times 36 = 14.4^\circ$

∴ Option 3 is the correct answer

45. Answer: d

Explanation:

Given:

The length of each side of a square is 16 cm.

Concept Used:

Area of square = (side)²

Calculation:

Length of square = 16 cm

Area of square = (side)²

⇒ $16^2 = 256 \text{ cm}^2$

∴ Option 4 is the correct answer.

46. Answer: b

Explanation:

Given:

A truck is running at a speed of 75 km/h.

Time = 4 hrs

Concept Used:

Distance = Speed \times Time

Calculation:

Speed = 75 km/h

Time = 4 hrs

Distance = Speed \times Time

$\Rightarrow 75 \times 4 = 300$ km

\therefore Option 2 is the correct answer.

47. Answer: a

Explanation:

Calculation:

Total number of cars sold in 2015 = $465 + 472 + 486 + 482 = 1905$

Total number of cars sold in 2016 = $375 + 427 + 379 + 419 = 1600$

Total number of cars sold in 2017 = $246 + 357 + 236 + 523 = 1362$

Total number of cars sold in 2018 = $456 + 357 + 484 + 475 = 1772$

The total number of cars sold by these four companies taken together was the maximum in 2015.

\therefore Option 1 is the correct answer.

48. Answer: b

Explanation:

Calculation:

Total number of cars in the society = $15 + 25 + 5 + 20 + 10 = 75$

Number of white cars = 25

Percentage of white colour cars out of all cars in the society = $25/75 \times 100$

$\Rightarrow 33.33\%$

\therefore Option 2 is the correct answer.

49. Answer: b

Explanation:

Given:

An alloy contains 30 per cent aluminium.

Calculation:

Let the quantity of alloy be 100 gm.

30% of 100 gm = 30 gm

30 gm of aluminium in 100 gm of alloy.

300 gm of aluminium = $100 \times 300/30 = 1000$ gm alloy

Quantity of alloy will have 300 gm of aluminium = 1000 gm or 1 kg

\therefore Option 2 is the correct answer.

50. Answer: b

Explanation:

Given:

The mean of five numbers is 45.

After the addition of sixth number mean = 48

Concept Used:

Mean or Average = Sum of observations / Total number of observations

Calculation:

Let the sixth number be x.

The mean of five numbers is 45.

Sum of five numbers = $45 \times 5 = 225$

After the addition of sixth number mean = 48

Sum of six numbers = $48 \times 6 = 288$

Sixth number = $288 - 225 = 63$

∴ Option 2 is the correct answer.

51. Answer: d

Explanation:

The correct answer is "away".

★ Key Points

- The phrase "**break off**" means to suddenly stop doing or saying something. ((कुछ कहते-कहते या करते-करते) एकाएक रुक जाना)
 - **Example:** He started speaking and **broke off** in the middle of a sentence.

- Now, let us explore the meanings of the other phrases which can be formed with the word "**broke**":
 - **Break in:** to enter a building by force, usually in order to steal something. (सामान्यतः चोरी के उद्देश्य से बलपूर्वक (घर में) प्रवेश करना)
 - **Break down:** (used about a vehicle or machine) to stop working. ((वाहन या मशीन का) चलते-चलते बंद हो जाना)
 - **Break away:** escape from the control of a person, group, or practice. (किसी व्यक्ति, समूह या अभ्यास के नियंत्रण से बचना)
- Now, the given sentence refers to one of the young elephants wandering off and being separated from the others.
- So, the correct answer is **Option 4**.

Correct sentence: *One of the baby elephants broke away from the herd and lost its way.*

52. Answer: a

Explanation:

The correct answer is 'Delicate.'

★ Key Points

- Let us see the meaning of **Sturdy** :
 - **Sturdy:** strong and healthy; that will not break easily. (हृष्ट-पुष्ट और स्वस्थ; जल्दी न टूटने वाला, मज़बूत, दृढ़)
- Let us see the meanings of the given options:
 - **Delicate:** easy to damage or break. (नाज़ुक, आसानी से टूट जाने वाला)
 - **Dragging:** extremely tired or slow. (अत्यधिक थका हुआ या धीमा)
 - **Tiny:** very small. (बहुत छोटा; नन्हा)
 - **Drab:** not interesting or attractive. (अनाकर्षक, फीका, बेचमक, नीरस)
- From the meanings of the given words, we can say that word "**Delicate**" is the most appropriate ANTONYM of the given word "**Sturdy**."
- Hence, the correct answer is Option 1.

53. Answer: b

Explanation:

The correct answer is "Who" .

★ Key Points

- Let us explore the meanings of the given options:
 - **Whom:** "Whom" is used to refer to the object of a verb or preposition. We use "whom" when it is receiving the action.
 - **Who:** If the question can be answered with a subject pronoun (he, she, it, or they), use " who."
 - **Which:** We use "which" in questions as a determiner and interrogative pronoun to ask for specific information
 - **Whose:** "Whose" is a possessive pronoun and we use it when we're asking (or telling) to whom something belongs.
- Here the blank needs to be filled up by the **subject pronoun** which is "Who" .
- According to the given sentence, **Who** will be held accountable for this **failure** ?
- So, the correct answer is **Option 2** .

Correct sentence:*Who is going to take the responsibility for this failure?*

★ Additional Information

- When a person being described is **the subject** of a sentence or follows a **preposition** , the word " **whom**" should be used.
- In order to ask for **specific information** , we utilize the **interrogative pronoun** "which" as a determiner in questions.
- A **possessive pronoun** is **whose** . Use it to determine whom something belongs to when asking (or telling) someone.

54. Answer: b

Explanation:

The correct answer is 'Delightful.'

★ Key Points

- Let us see the meaning of Pleasant :
 - Pleasant: nice, enjoyable or friendly. (सुहाना, आनंददायक या अनुकूल)
- Let us see the meanings of the given options:
 - **Awful:** very bad or unpleasant. (बहुत बुरा, अत्यधिक अरुचिकर)
 - **Delightful:** causing delight; charming. (आनंदप्रद)
 - **Faithful:** always staying with and supporting a person, organization or belief. ((व्यक्ति, संस्था, मत आदि के प्रति) सच्चा और निष्ठावान)
 - **Sorrowful:** feeling or showing grief. (दुखपूर्ण, दुखी)
- From the meanings of the given words, we can say that word "Delightful" is the most appropriate synonym of the given word "Pleasant."
- Hence, the correct answer is Option 2.

55. Answer: a

Explanation:

The correct answer is "Fatalist."

★ Key Points

- Let us see the meanings of the given options:
 - **Fatalist:** someone who holds specific beliefs about life, destiny, fate and the future. (कोई है जो जीवन, भाग्य, और भविष्य के बारे में विशिष्ट विश्वास रखता है)
 - **Optimist:** a person who tends to be hopeful and confident about the future or the success of something. (एक व्यक्ति जो भविष्य या किसी चीज की सफलता के बारे में आशान्वित और आश्वस्त होता है)
 - **Mercenary:** primarily concerned with making money at the expense of ethics. (मुख्य रूप से नैतिकता की कीमत पर पैसा बनाने से संबंधित है)

- **Ascetic:** characterized by severe self-discipline and abstention from all forms of indulgence, typically for religious reasons. (विशेष रूप से धार्मिक कारणों से गंभीर आत्म-अनुशासन और सभी प्रकार के भोग से परहेज की विशेषता है)
- From the meanings of the given words, one who believes in fate is 'Fatalist.'
- Hence, the correct answer is Option 1.

56. Answer: c

Explanation:

The correct answer is "To believe with some scepticism ".

★ Key Points

- The meaning of the idiom 'To take with a grain of salt ' isto not completely believe something that you are told because you think it is unlikely to be true. (Idiom 'To take with a grain of salt ' का अर्थ है किसी बात पर पूरी तरह से विश्वास न करना क्योंकि आपको लगता है कि यह सच होने की संभावना नहीं है।)
 - Example : *You have to take everything she says with a grain of salt because she tends to exaggerate.*
- Therefore, the most appropriate meaning of the given idiom is " **To believe with some scepticism .**"
- Thus, the correct answer is Option 3.

57. Answer: d

Explanation:

Here, the erroneous part is "firmly shuted ".

★ Key Points

- The error lies in the part "firmly shuted" of the given sentence.
- The first **verb** of the given sentence is in the **present tense**.

- The verb "sleep" is the V1 form of the verb.
- Verb tense consistency refers to keeping the same tense throughout a clause.
- We don't want to have one time period described in two different tenses.
- So the second one should be in **present form** also.
- The present form of the verb "shuted" is "shut."
- So, the correct answer is **Option 4** .

Correct sentence: *We usually sleep in bedrooms with the door firmly shut behind us.*

58. Answer: a

Explanation:

Here, the erroneous part is " **You have to constant consider** " .

★ Key Points

- The error lies in part " **You have to constant consider** . "
- "Constantly" is an adverb while "constant" is an adjective which is used to modify a noun or a pronoun.
- Here we need the adverb "constantly" to modify the verb 'consider.'
- **Adverbs** are often positioned after auxiliary verbs but before the main verb.
- A verb, adjective, or another adverb may be modified by an **adverb** .
- The adverb of "consider" will be **constantly**.
- It should be ' **constantly consider** . '
- The correct option will be **1**.

Correct sentence: *You have to constantly consider how your personal behaviour is going to impact everyone around you.*

59. Answer: b

Explanation:

Here, the correct answer is "Neither of the leading political parties has had much ."

★ Key Points

- The error lies in the part "have had" of the sentence.
- When "neither and nor" link singular terms, the verb is singular.
 - **Example:** *Neither the car nor the truck is available.*
- In the given sentence, the subject is "leading political parties."
- So, we must use the singular helping verb "has" in this case.
- Hence, in the given sentence 'have had' will be replaced by 'has had.'
- So, the correct answer is Option 2.

Correct sentence: *Neither of the leading political parties has had much success in the southern region.*

60. Answer: a

Explanation:

The correct answer is "Philately."

★ Key Points

- Let us see the meanings of the given options:
 - **Philately:** the collection and study of postage stamps. (डाक टिकटों का संग्रह और अध्ययन)
 - **Ornithology:** the scientific study of birds. (पक्षियों का वैज्ञानिक अध्ययन)
 - **Philosophy:** the study of the fundamental nature of knowledge, reality, and existence, especially when considered as an academic discipline. (ज्ञान, वास्तविकता और अस्तित्व की मौलिक प्रकृति का अध्ययन, विशेष रूप से जब एक अकादमिक अनुशासन के रूप में माना जाता है)
 - **Philanthropy:** the desire to promote the welfare of others, expressed especially by the generous donation of money to good causes. (दूसरों के कल्याण को बढ़ावा देने की इच्छा, विशेष रूप से अच्छे कार्यों के लिए धन के उदार दान द्वारा व्यक्त की गई)
- From the meanings of the given words, the collection and study of postage stamps is 'Philately.'

- Hence, the correct answer is Option 1.

61. Answer: c

Explanation:

The correct answer is "Bouket".

★ Key Points

- The incorrectly spelt word is "Bouket."
- The correct spelling is "Bouquet".
- A "bouquet" is a collection of flowers that have been artistically arranged and tied together to be given as gifts or carried on formal occasions .
 - *Example: I gave her abouquet at her wedding.*
- So, the correct answer is Option 3.

★ Additional Information

- Rest three words are **grammatically correct**.
- Look at the meaning of the other words.
 - **Barricade:** An obstacle or rampart built across a path or passage to impede the enemy's advance
 - **Prosperity:** the state of being prosperous or successful
 - **Dissatisfied:** demonstrating or expressing dissatisfaction

62. Answer: a

Explanation:

The correct answer is "He maintains the unity and freedom of the soul."

★ Key Points

- In the given sentence, misspelt words are "maintins", "fredom" and "suol."

- The correctly spelt words are "maintains", "freedom" and "soul."
- Now, let us see the meanings of these three words:
 - **Maintains:** to make something continue at the same level, standard, etc. (किसी वस्तु को उसी स्तर, मानक आदि पर बनाए रखना, जारी रखना)
 - **Freedom:** the state of not being held prisoner or controlled by somebody else. (स्वतंत्रता, आज़ादी; दूसरे की क़ैद या नियंत्रण से मुक्ति)
 - **Soul:** the spiritual part of a person that is believed to continue to exist after the body is dead. (व्यक्ति की आत्मा (जो शरीर के साथ मरती नहीं, अनश्वर है); जीवात्मा)
- So, the correct answer is **Option 1**.

Correct sentence: *He maintains the unity and freedom of the soul.*

63. Answer: c

Explanation:

The correct answer is "To earn enough money for things you need".

★ Key Points

- The meaning of the idiom "make a living" is to earn the money one needs to pay for housing, food, etc.
- Idiom "make a living" का अर्थ है वह धन अर्जित करना है जो आवास, भोजन आदि के लिए भुगतान करने के लिए आवश्यक है।
 - Example: *He **made a living** by working as a cook.*
- Therefore, the one that represents the appropriate meaning of the idiom is 'To earn enough money for things you need.'
- Hence, the correct answer is Option 3.

★ Additional Information

- Let's check for the other idioms with the word "living":
 - Living the dream: having a lifestyle that is perceived as wonderful or perfect.
 - **Live down:** to get beyond anything you did in the past that was really embarrassing or a significant error.

- **Live to:** to continue existing until a particular age.

64. Answer: a

Explanation:

The correct answer is "Florist".

★ Key Points

- Let us see the meanings of the given options:
 - **Florist:** a person who has or works in a shop where flowers are sold. (फूल बेचने वाला व्यक्ति; पुष्प विक्रेता)
 - **Horticulturist:** an expert in garden cultivation and management. (उद्यान खेती और प्रबंधन में एक विशेषज्ञ)
 - **Chauffeur:** a person whose job is to drive a car for somebody else. (दूसरों के लिए उनकी कार चलाने की नौकरी करने वाला व्यक्ति; कार का वेतनभोगी ड्राइवर)
 - **Invigilator:** a person who supervises students during an examination. (एक व्यक्ति जो एक परीक्षा के दौरान छात्रों की देखरेख करता है)
- From the meanings of the given words, a person who sells flowers is 'Florist.'
- Hence, the correct answer is Option 1.

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65. Answer: b

Explanation:

The correct answer is "Mammoth."

★ Key Points

- Let us see the meaning of Miniature :
 - Miniature: something much smaller than the usual size. (सामान्य आकार से बहुत छोटा कुछ)
- Let us see the meanings of the given options:

- **Teeny:** a person who pays money (rent) to the owner of a room, flat, building or piece of land so that he/she can live in it or use it. (कमरे, फ्लैट, भवन या भूखंड का किराया देकर उपयोग करने वाला व्यक्ति; किराएदार, (भूखंड का) पट्टेदार, पट्टाधारी आसामी)
- **Mammoth:** very big. (विशाल)
- **Average:** normal or typical. (सामान्य या प्रतिनिधिक)
- **Miniscule :** extremely small. (अति सूक्ष्म)
- From the meanings of the given words, we can say that word "Mammoth" is the most appropriate antonym for the given word "Miniature."
- Hence, the correct answer is Option 2.

66. Answer: a

Explanation:

The correct answer is "prohibit".

★ Key Points

- Let us explore the meaning of the given options:
 - **Prohibit:** to say that something is not allowed by law; to forbid. (क़ानून द्वारा किसी बात को मना करना; निषेध करना, प्रतिबंध लगाना)
 - **Submerge:** to go or make something go underwater. (जलमग्न होना या करना)
 - **Cultivate:** to prepare and use the land for growing plants for food or to sell. (फ़सल उगाने के लिए खेत जोतना)
 - **Spirit:** to move someone or something secretly. (किसी को या कुछ चुपके से स्थानांतरित कर ना)
- The given sentence states that mobile phone use while at work is typically forbidden by employers.
- Hence, the correct answer is Option 1.

Correct sentence: *Most employers prohibit the use of mobile phones during office hours.*

67. Answer: a

Explanation:

The correct answer is "Delirium".

★ Key Points

- Let us see the meanings of the given options:
 - **Delirium:** a mental state where somebody becomes delirious. (ज्वर में उत्पन्न मस्तिष्क विभ्रम)
 - **Discrepancy:** a difference between two things that should be the same. ((दो बातों में) असंगति, अंतर (दो समान चीजों में))
 - **Dilemma:** a situation in which you have to make a difficult choice between two or more things. (दो या अधिक वस्तुओं में से एक का चयन करने की कठिन स्थिति, दुविधा, असमंजस)
 - **Depreciation:** a reduction in the value of an asset over time, due in particular to wear and tear. (मूल्य-ह्रास)
- From the meanings of the given words, a disturbed state of mind caused by an illness is "Delirium."
- Hence, the correct answer is Option 1.

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68. Answer: d

Explanation:

Here, the erroneous part is "Your infidelity have".

★ Key Points

- The error lies in the part "Your infidelity have" of the sentence.
- In the given sentence, the auxiliary verb "have" is used wrongly.
- The subject "Your identity" is a third-person singular subject.

- So, according to Subject-Verb agreement, we must use the singular helping verb "has" with "Your infidelity."
- Therefore, the correct answer is **Option 4.**

Correct sentence: *Your infidelity has given me too much pain in life.*

69. Answer: c

Explanation:

Here, the correct option is "No substitution required."

★ Key Points

- The collocation of the word "wise" is "choice."
- The meaning of the word "wise" is having or showing the ability to make good judgments, based on a deep understanding and experience.
- The meaning of the word "choice" is an act or a possibility.
- So, the given sentence is grammatically and contextually correct.
- Therefore, the correct answer is Option 3 .

70. Answer: c

Explanation:

The correct answer is "sparky."

★ Key Points

- Let us see the meaning of Vivacious :
 - Vivacious: (used about a person, usually a woman) full of energy; lively and happy. ((व्यक्ति, प्रायः महिला) स्वस्थ, जिंदादिल और खुशमिज़ाज)
- Let us see the meanings of the given options:
 - **Repressed:** (used about a person) having emotions and desires that he/she does not show or express. ((व्यक्ति) भावनाओं और आकांक्षाओं को दमित किए

- हुए)
- **Impassive:** (used about a person) showing no emotion or reaction. (जो कोई भाव या प्रतिक्रिया व्यक्त न करे, भावशून्य (व्यक्ति); अविचलित)
 - **Sparky:** lively and high-spirited. (जीवंत और उच्च उत्साही)
 - **Gloomy:** dark in way that makes you feel sad. (ऐसा गहरा कि उदास कर दे)
 - From the meanings of the given words, we can say that word "sparky" is the most appropriate synonym for the given word "vivacious."
 - Hence, the correct answer is Option 3.

71. Answer: d

Explanation:

The correct answer is '**dependence**'.

★ Key Points

- Let us see the meanings of the given options:
 - **Growth:** the process of growing and developing. (वृद्धि और विकास)
 - **Support:** help and encouragement that you give to a person or thing. (व्यक्ति या वस्तु को सहायता और प्रोत्साहन)
 - **Addiction:** the fact or condition of being addicted to a particular substance or activity. (ब्यसन, लत, आसक्ति)
 - **Dependence:** the state of needing somebody/something. (आश्रित रहने की स्थिति, निर्भरता)
- Here, the sentence refers that arid soils have developed in Andhra Pradesh as a result of poor rainfall and a growing reliance on borewells.
- Option 4 is correct in this context.

Correct paragraph:

*In Andhra Pradesh, low rainfall and increased **dependence** on borewells have led to soil aridity, while _____ (2) _____ snow and more rainfall has _____ (3) _____ the desertification crisis in Himachal Pradesh. On the other _____ (4) _____, in Rajasthan, canals, tube-well irrigation and shelterbelts have _____ (5) _____ to an increase in the green cover.*

72. Answer: c

Explanation:

The correct answer is 'less.'

★ Key Points

- Let us see the meanings of the given options:
 - Few: We use the word "**few**" when we want to talk about the quantity of something.
 - Usually, we use it when we want to talk about a small quantity.
 - **Example:** *Few members of the family leave their hometown each year.*
 - Least: We use the quantifier "**least**" to talk about quantities, amounts and degrees.
 - **(The) least** is the superlative form of little.
 - **Example:** *Rosalind seems to be the least worried about their move.*
 - Less: "**Less**" means "not as much."
 - We use "**less**" with uncountable nouns like milk.
 - **Example:** *Could you give Cookie Monster less milk next time?*
 - Fewer: "**Fewer**" means "not as many."
 - We use "**fewer**" with countable nouns like cookies.
 - **Example:** *Cookie Monster was told to eat fewer cookies.*
- Here, the sentence refers to the uncountable noun "**snow**."
- Option 3 is correct in this context.

Correct paragraph:

In Andhra Pradesh, low rainfall and increased _____ (1) _____ on borewells have led to soil aridity, while less snow and more rainfall has _____ (3) _____ the desertification crisis in Himachal Pradesh. On the other _____ (4) _____, in Rajasthan, canals, tube-well irrigation and shelterbelts have _____ (5) _____ to an increase in the green cover.

73. Answer: b

Explanation:

The correct answer is 'deepened.'

★ Key Points

- In the given sentence, we can see the presence of the helping verb "has" before the blank indicates that we need the V3 form of the verb.
- **Structure: Subject + has/have + V3 + object**
 - **Example:** *He has spent all his money.*
- The V3 form of the verb "deepen" is "deepened."
- Option 2 is correct in this context.

Correct paragraph:

*In Andhra Pradesh, low rainfall and increased _____ (1) _____ on borewells have led to soil aridity, while _____ (2) _____ snow and more rainfall has **deepened** the desertification crisis in Himachal Pradesh. On the other _____ (4) _____, in Rajasthan, canals, tube-well irrigation and shelterbelts have _____ (5) _____ to an increase in the green cover.*

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74. Answer: b

Explanation:

The correct answer is 'hand.'

★ Key Points

- The phrase "on the other hand" is used to introduce a contrasting point of view, fact, or situation.
- Phrase "on the other hand" का उपयोग विपरीत दृष्टिकोण, तथ्य या स्थिति को प्रस्तुत करने के लिए किया जाता है।

- **Example:** *My husband likes classical music – I, on the other hand, like all kinds.*
- Option 2 is correct in this context.

Correct paragraph:

In Andhra Pradesh, low rainfall and increased _____ (1) _____ on borewells have led to soil aridity, while _____ (2) _____ snow and more rainfall has _____ (3) _____ the desertification crisis in Himachal Pradesh. On the other hand, in Rajasthan, canals, tube-well irrigation and shelterbelts have _____ (5) _____ to an increase in the green cover.

75. Answer: b

Explanation:

The correct answer is 'led.'

★ **Key Points**

- In the given sentence, we can see the presence of the helping verb "have" before the blank indicates that we need the V3 form of the verb.
- Structure: Subject + has/have + V3 + object
 - Example: *He has spent all his money.*
- The V3 form of the verb "lead" is "led."
- Option 2 is correct in this context.

Correct paragraph:

In Andhra Pradesh, low rainfall and increased _____ (1) _____ on borewells have led to soil aridity, while _____ (2) _____ snow and more rainfall has deepened the desertification crisis in Himachal Pradesh. On the other _____ (4) _____, in Rajasthan, canals, tube-well irrigation and shelterbelts have led to an increase in the green cover.

76. Answer: c

Explanation:

The correct answer is Tamil Nadu.

★ Key Points

- The **Iravatanesvara Temple** is located in the state of **Tamil Nadu**.
- Specifically, **the temple is situated in the town of Kumbakonam**.
- **Kumbakonam** is in the **Thanjavur district** of **Tamil Nadu**.
- The temple is **dedicated to Lord Shiva**.
- It is a popular pilgrimage site for devotees of **Hinduism**.

★ Additional Information

- Important Temples of different states:
- **Tamil Nadu:**
 - **Meenakshi Amman Temple** in **Madurai**.
 - **Brihadeeswarar Temple** in **Thanjavur**.
 - **Rameshwaram Temple** in **Rameshwaram**.
 - **Sri Ranganathaswamy Temple** in **Srirangam**.
 - **Kanchipuram Kamakshi Amman Temple** in **Kanchipuram**.
- **West Bengal:**
 - **Dakshineswar Kali Temple** in **Kolkata**.
 - **Kalighat Kali Temple** in **Kolkata**.
 - **Tarapith Temple** in **Birbhum**.
 - **Jangipur Hanuman Temple** in **Jangipur**.
- **Rajasthan:**
 - **Dilwara Jain Temples** in **Mount Abu**.
 - **Jagdish Temple** in **Udaipur**.
 - **Karni Mata Temple** in **Bikaner**.
 - **Govind Devji Temple** in **Jaipur**.
 - **Shri Eklingji Temple** in **Udaipur**.
- **Telangana:**
 - **Birla Mandir** in **Hyderabad**.

- Bhadrakali Temple in Warangal.
 - Kaleshwara Mukteswara Swamy Temple in Kaleshwaram.
 - Chilkur Balaji Temple in Hyderabad.
 - Yadagirigutta Temple in Yadagirigutta.
-

77. Answer: a

Explanation:

The correct answer is Harappa.

★ Key Points

- Harappa is a site in eastern Punjab province.
- Harappa was located on the banks of the river Ravi.
- Most Harappan sites are located in semi-arid lands, where irrigation was probably required for agriculture.
- Harappa was discovered by archaeologist Daya Ram Sahni.
- He supervised the excavation of the Indus valley site at Harappa in 1921 and 1922.
- Harappa site was again excavated by Madho Swaroop Vatsa in 1926 and Wheeler in 1946.

★ Additional Information

- Harappa was excavated by Mohammed Rafique Mughal of the Archaeological Survey of Pakistan in 1966 after independence.
 - The Harappan city was heavily damaged under British rule when bricks from the ruins were used as track ballast in the construction of the Lahore–Multan Railway.
 - Mohenjodaro was discovered by R.D Banerjee in 1922.
 - The Harappa site was first briefly excavated by Sir Alexander Cunningham in 1872–73.
-

78. Answer: b

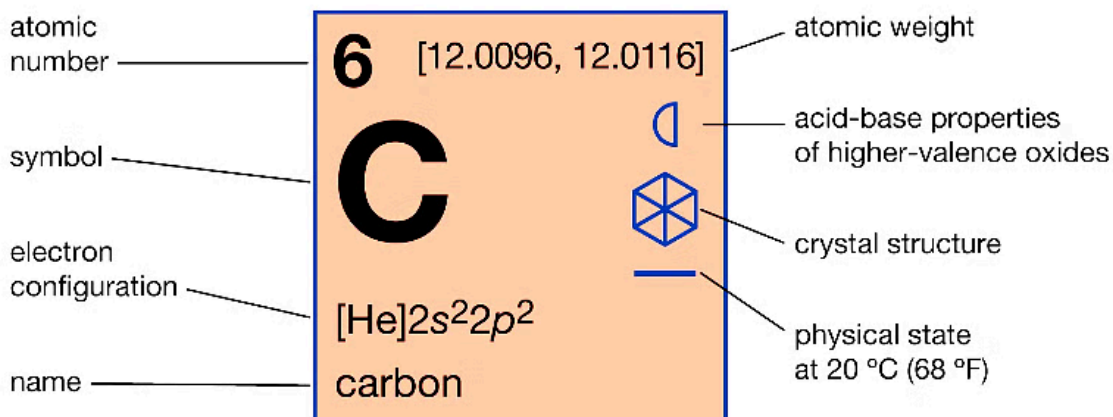
Explanation:

The correct answer is 6.

★ Key Points

- **The atomic number of carbon is 6.**
- Carbon is a chemical element with the **atomic number 6 and the symbol C**.
- It is a **nonmetallic element** that can bond with itself and other elements to form a wide variety of compounds.
- Carbon is **essential for life on Earth** as it is a **key component of organic compounds, which make up living organisms**.
- It exists in **several forms, including diamond, graphite, and amorphous carbon**.
- Carbon-based fuels like coal, oil, and natural gas are the primary source of energy for many modern technologies but their **combustion releases carbon dioxide (CO₂) into the atmosphere**.
- **CO₂ is a greenhouse gas** that contributes to climate change.
- It is **also used in the form of activated carbon in water purification, air filters, and gas masks**.
- **Carbon is abundant in the Earth's crust and atmosphere**.
- **Carbon** plays a crucial role in many aspects of our lives, but its impact on the environment requires careful consideration and management.

Carbon



Other nonmetals	Solid
Hexagonal	Weakly acidic

★ Important Points

- **Atomic Number:**
 - The atomic number is the **number of protons in the nucleus of an atom**.
 - It is a **fundamental property of an element** and determines its **identity of the element**.
 - Atoms of the same element have the same atomic number.
 - The **atomic number** is represented by the **symbol "Z"**.
 - In a neutral atom, the **atomic number** also equals the **number of electrons in the atom**.
 - The atomic number is used to organize elements in the **periodic table of elements**.
 - Elements are arranged in order of **increasing atomic number in the periodic table**.
 - The **atomic number** can be used to determine the **number of neutrons in an atom, as well as other properties of the atom**.

79. Answer: a

Explanation:

The correct answer is demography.

★ Key Points

- The scientific study of the population is called demography.
- Demography today has become a widespread part of the study of economists, sociologists, anthropologists, geographers, environmentalists, and academics.
- Demography is a systematic science. This is a new branch of population study as compared to other sciences, which started in 1662 AD.
- Its father is considered to be Joan Grant.
- Robert Malthus is credited with providing the scientific basis for this.
- The word demography is derived from two Greek words demo and graphic (demo = public, graphi = writing) which means writing about the people. The term was first used by Ashille Guilai.

★ Additional Information

Ethnography

- Ethnography is a branch of anthropology and a study of a particular human society or the process of making such a study.
- It is also a type of social research, as it involves the behavioural examination of the participants in a given social situation.

Stenography

- A stenographer is a person trained to type or write in shorthand methods, enabling them to write as quickly as people speak.

80. Answer: c

Explanation:

The correct answer is Ghumar – Bihar.

★ Key Points

- Ghoomar is a traditional folk dance of the Bhil tribe performed to worship Goddess Sarasvati which was later embraced by other Rajasthani communities.
- Ghoomar became popular in the Indian state of Rajasthan during the reigns of Rajput kings and is typically performed by women during gatherings.
- Other Folk Dance from Rajasthan are:
 - Chakri, Ganagor, Jhulan Leela, Jhuma, Suisini, Ghapal, and Kalbeliya.
- Therefore Ghumar does not belongs to state of Bihar.
- **Giddha - It is the folk dance of Punjab.**
- **Wancho - It is the folk dance of Arunachal Pradesh.**
- **Nongkrem - It is the folk dance of Meghalaya.**

★ Additional Information

Prepp

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State	Folk Dance
Andhra Pradesh	Kuchipudi, Vilasini Natyam, Andhra Natyam, Bhamakalpam, Veeranatyam, Dappu, Tappeta Gullu, Lambadi, Dhimsa, Kolattam, Butta Bommalu.
Assam	Bihu, Bichhua, Natpuja, Maharas, Kaligopal, Bagurumba, Naga dance, Khel Gopal, Tabal Chongli, Canoe, Jhumura Hobjanai
Bihar	Jata-Jatin, Bakho-Bakhain, Panwariya, Sama Chakwa, Bidesia.
Gujarat	Garba, Dandiya Ras, Tippani Juriun.
Himachal Pradesh	Jhora, Jhali, Chharhi, Dhaman, Chhapeli, Mahasu, Nati, Dangi.
Chhattisgarh	Gaur Maria, Panthi, Raut Nacha, Pandwani, Vedamati, Kapalik, Bharthari Charit, Chandaini.
Jharkhand	Alkap, Karma Munda, Agni, Jhumar, Janani Jhumar, Mardana Jhumar, Paika, Phagua, Hunta Dance, Mundari Dance, Sarhul, Barao, Jhitka, Danga, Domkach, Ghora Naach.
Manipur	Dol Cholam, Thang-Ta, Lai Haraoba, Pung Cholom, Khamba Thaibi, Nupa Dance, Rasilila, Khubak Ishii, Lou Sha.
Madhya Pradesh	Jawara, Matki, Aada, Khada Nach, Phulpati, Grida Dance, Selalarki, Selabhadoni, Maanch

81. Answer: c

Explanation:

The correct answer is Ghaghara.

★ Key Points

Ghaghara:

- It is a 1080 km long river that originates from Mapchachungo Glacier in the Nepal Himalayas.
- It flows through Tibet, Nepal, and India where it joins the river Ganga near Chhapra, Bihar.
- Faizabad and Dhorighat are the towns situated on the banks of river Ghaghara.
- Tributaries: Rapti, Budhi Ganga, and Chhoti Gandhaki are the major tributaries.

★ Additional Information

Chenab River

- Chenab River originates from Baralacha Pass in Himachal Pradesh.
- It's the largest tributary of the Indus river (In terms of Drain).
- It is also known as the Chandrabhaga River.
- It is a major river that flows in India and Pakistan.
- It is one of the 5 major rivers of the Punjab region.

Chambal River

- The Chambal is the chief tributary of the Yamuna River and rises in the Vindhya Range just south of Mhow, western Madhya Pradesh state.
- From its source, it flows north into the southeastern Rajasthan state.
- Turning northeast, it flows past Kota and along the Rajasthan–Madhya Pradesh border; shifting east-southeast, it forms a portion of the Uttar Pradesh–Madhya Pradesh border and flows through Uttar Pradesh to empty into the Yamuna after a 550-mile (900-km) course.
- The Banas, Kali Sindh, Sipra, and Parbati are its chief tributaries.

Betwa River

- The Betwa river is a tributary of the Yamuna.
- The ancient name of the river Betwa is Vetravati.
- It rises in the Vindhya Range in Kumraon Village, Raisen, Madhya Pradesh.
- It is called the "Ganga of Madhya Pradesh".
- It flows generally through Madhya Pradesh and Uttar Pradesh states.
- It confluences with the river Yamuna near Hamirpur in Uttar Pradesh.
- The Bina, Dhasaan, and Jamni rivers are the main tributaries of the river Betwa.

- The Rajghat Dam is constructed on the Betwa River
- Orchha, Guna, Sanchi, and Vidisha are located on the bank of Betwa River.
- Rajghat Dam, Matatila Dam, Parichha Dam, and Dhurwara Dam are important projects on the Betwa River.
- Bina and Dhasaan are the important tributary of Betwa River.



82. Answer: a

Explanation:

The correct answer is Three.

★ Key Points

- In order to maintain the supremacy of the Constitution, there has to be an independent and impartial authority that will decide disputes between the Centre and the States and interstate (among States).
- This function has been entrusted to the Supreme Court of India.
- The Constitution of India has provided a single integrated and unified judicial system for the whole country.
- It means that for the entire country, there is one unified judicial system.
- One hierarchy of courts with the Supreme Court as the highest or the Apex Court.
- It is also the highest and final interpreter of the Constitution and the general law of the land.
- It is the Last Appellate Court in India, whose top authority is the Chief Justice of India.
- High Courts, managed by Chief Justices of States, are the top judicial bodies in the states.
- District Courts are below High Courts (also known as Subordinate Courts), and are controlled and managed by District & Sessions Judges.
- They are further divided into Civil Court and Criminal Court.

83. Answer: a

Explanation:

The correct answer is four-chambered.

★ Key Points

- Birds(Aves) have four-chambered hearts.
 - Chordates have a closed circulatory system i.e., the heart and blood vessels are found in them, and the Heart in is divided into chambers like atriums (auricles) and ventricles.
 - Pisces have a two-chambered heart, i.e., one auricle and one ventricle.
 - Amphibians and Reptiles have three-chambered hearts, i.e., two auricles and one ventricle.
 - Aves and Mammals have four-chambered hearts, i.e., two auricles and two ventricles.
 - This kind of system prevents mixing of the oxygenated and de-oxygenated blood.
-

84. Answer: d

Explanation:

The correct answer is Tabla.

★ **Key Points**

- Ustad Zakir Hussain, son of tabla player Ustad Allah Rakha, is the most famous classical tabla player in India today.
 - He is appreciated both in the field of percussion and in the music world at large.
 - He was awarded Padma Shri in the year 1988 and Padma Bhushan in 2002.
 - The list of his awards also includes the Sangeet Natak Akademi Award, given by India's National academy of Music, Dance, and Drama which he received in 1990
-

85. Answer: c

Explanation:

The correct answer is Ownership.

★ Key Points

- Ownership
 - Ownership Industries can be classified into the private sector, state-owned or public sector, joint sector, and cooperative sector.
 - Private-sector industries are owned and operated by individuals or a group of individuals.
 - The public sector industries are owned and operated by the government, such as Hindustan Aeronautics Limited and Steel Authority of India Limited.
 - Joint sector industries are owned and operated by the state and individuals or a group of individuals.
 - Maruti Udyog Limited is an example of a joint sector industry.
 - Co-operative sector industries are owned and operated by the producers or suppliers of raw materials, workers, or both.
 - Anand Milk Union Limited and Sudha Dairy are success stories of a cooperative venture.

86. Answer: d

Explanation:

The correct answer is Mumbai.

★ Key Points

- Mumbai is the center of the Mumbai Metropolitan Region.
- Mumbai is the sixth most populous metropolitan area in the world with a population of over 2.3 crores (23 million).
- The rapid population growth is attributed to migration from other regions in the country, with migrants seeking business and employment opportunities.
- Mumbai is the most populated metro city as per the 2011 Census data.
- It is followed by Delhi, Kolkata and Chennai.

87. Answer: d

Explanation:

The correct answer is Assam.

★ In News

- Chief Minister Dr Himanta Biswa Sarma launched Assam State Government's ambitious Project Sadhbhavna at a programme held at Srimanta Sankardev Kalakshetra in February 2022.
- The Chief Minister had been holding series of talks in January 2022 with all levels of Government employees at Janata Bhawan in preparation for this launch.
- Under Project Sadhbhavna, all files pending at Janata Bhawan till May 10, 2021 will be disposed on priority basis within August 15, 2022.
- While people would be able to track movement of files on Sadhbhavna Portal, implementation of the project would be monitored through a dashboard.

★ Additional Information

- Assam is a state located in the northeastern region of India.
- It is the largest state in the northeastern region and the 17th most populous state in India.
- The state has a diverse population with many ethnic and linguistic groups, including the Assamese, Bodo, Karbi, and many others.
- The capital city of Assam is Dispur.
- Assam is known for its natural beauty and biodiversity, including its many wildlife sanctuaries and national parks.
- The state is also famous for its tea plantations, which produce some of the best tea in the world.
- Assam has a rich cultural heritage and is known for its music, dance, and festivals, including the Bihu festival, which celebrates the harvest season.
- The Brahmaputra River, one of the largest rivers in the world, flows through Assam and is an important source of water and transportation for the state.

88. Answer: a

Explanation:

The correct answer is 1799.

★ Key Points

- Tipu Sultan:
 - In the Fourth Anglo-Mysore War, a combined force of British East India Company troops, supported by the Marathas and the Nizam of Hyderabad defeated Tipu. He was killed on 4 May 1799 while defending his stronghold of Seringapatam.
 - Tipu Sultan also known as the Tiger of Mysore was the ruler of the Kingdom of Mysore, Karnataka.
 - He introduced a number of administrative innovations during his rule, including a new coinage system and Mauludi Lunisolar calendar and a new land revenue system.
 - He initiated the growth of the Mysore silk industry.
 - He was also a patron of science and technology and is credited as the 'pioneer of rocket technology in India'. He expanded the iron-cased Mysorean rockets and commissioned the military manual Fathul Mujahidin.
 - He deployed the rockets against the advances of British forces and their allies during the Anglo-Mysore Wars, including the Battle of Pollilur and the Siege of Srirangapatna.
 - He won important victories against the British in the Second Anglo-Mysore War. He negotiated the 1784 Treaty of Mangalore with them after his father Hyder Ali died from cancer in December 1782 during the Second Anglo-Mysore War.
 - In the Third Anglo-Mysore War, he was forced into the Treaty of Seringapatam, losing a number of previously conquered territories, including Malabar and Mangalore.
 - He sent emissaries to foreign states, including the Ottoman Empire, Afghanistan, and France, in an attempt to rally opposition to the British.

- Tipu was a great lover of democracy and a great diplomat who gave his support to the French soldiers at Seringapatam in setting up a Jacobin Club in 1797. Tipu himself became a member of the Jacobin Club and allowed himself to be called Citizen Tipu.
- He planted the Tree of Liberty at Seringapatam.
- Important treaties with the British:
 - Four wars were fought with Mysore (1767-69, 1780-84, 1790-92 and 1799).
 - 1767-69: Treaty of Madras
 - 1780-84: Treaty of Mangalore
 - 1790-92: Treaty of Seringapatam
 - 1799: Subsidiary Alliance



89. Answer: c

Explanation:

The correct answer is Option 3.

★ Key Points

- The government has proposed that transfer of any **virtual/cryptocurrency asset** will be taxed at **30%**. No deduction except cost of acquisition will be allowed and no loss in transaction will be allowed to be carried forward, the finance minister announced in **Budget 2022**.
- The central government has allocated Rs 3062.60 crore for the financial year 2022-23, an increase of Rs 305.58 crore.

- In the previous financial year, the government had allocated Rs 2596.14 crore for sports, which was later revised to Rs 2757.02 crore.
- The financial allocation towards the Khelo India programme, which got Rs 657.71 crore in the last budget, was increased to Rs 974 crore.

★ Additional Information

- On 01 February 2022, Union Finance Minister Nirmala Sitharaman announced that the government will launch the next phase of Ease of Doing Business.
- It will be known as 'Ease of Doing Business 2.0'.
- The new phase would be guided by the active involvement of the states, digitization of manual processes, and interventions.
- It will also have the integration of the central and the state-level systems through IT bridges.
- It will provide single-point access for all citizen-centric services, and standardization and removal of overlapping compliances.

90. Answer: c

Explanation:

The correct answer is Option 3.

★ Key Points

- **Ajit Kumar Doval** is the **fifth and current National Security Advisor (NSA)** to the **Prime Minister of India**.
- He is a **retired Indian Police Services (IPS) officer** of the **Kerala cadre** and a **former Indian intelligence and law enforcement officer**.
- Born in **Uttarakhand in 1945**, he was the youngest police officer in India to be awarded the **Kirti Chakra** meritorious service, a gallantry award for military personnel.
- **Ajit Doval** spent a major part of his career as an active field **Intelligence officer with the Intelligence Bureau (IB)**. With a plethora of well-known awards, honours, and records to his credit, Doval has built a reputation for taking a strict stance against militancy and terrorism.

After his retirement in 2009, Doval became the founder director of **Vivekananda International Foundation**.

91. **Answer: a**

Explanation:

The correct answer is Australia.

★ Key Points

- The 2022 ICC Women's Cricket World Cup was the twelfth edition of the Women's Cricket World Cup.
- It was held in New Zealand in March and April 2022.
- It was originally scheduled for 6 February to 7 March 2021 but was postponed by one year due to the COVID-19 pandemic.
- It is organized from 4 Mar 2022 – 3 Apr 2022.
- New Zealand qualified automatically as hosts.
- Australia was the first team to qualify for the semi-finals after they won their first five matches of the tournament.

Your Personal Exams Guide

92. **Answer: a**

Explanation:

The correct answer is Bharatanatyam.

★ Key Points

- Padma Subrahmanyam is an Indian classical Bharata Natyam dancer.
- She is also a research scholar, choreographer, teacher, Indologist and author.
- She is famous in India and also abroad; several films and documentaries have been made in her honour by countries such as Japan, Australia and Russia.

- The Padma received Padma Shri in 1981 and Padma Bhushan in 2003, which are among the highest civilian awards of India.

★ Additional Information

- The world-famous Kathak dancer, Pandit Birju Maharaj is the face of the Kalka-Bindadin gharana of Lucknow.
- Smitha Rajan is an Indian **Mohiniyattam** performer from Kerala and granddaughter of the legendary Indian classical dancer a couple of Padma Shri Kalamandalam Krishnan Nair and Kalamandalam Kalyanikutty Amma.
- Mallika Sarabhai, is an Indian classical dancer, choreographer, actress, writer, and social activist known for her promotion of the arts as a vehicle for social change .
 - Mallika is an accomplished Kuchipudi and Bharatanatyam dancer and performer who has specialized in using the arts for social change and transformation.

93. Answer: c

Explanation:

The correct answer is Vertebrata.

★ Key Points

- Non-chordates
 - Non-chordates are animals **without** a notochord or backbone whereas chordates have the same.
 - Gill slits are not present in non-chordates since they breathe through the body surface or trachea.
 - Post-anal tail is absent in the case of non-chordates whereas the heart is generally absent and if present, it will be dorsally or laterally placed.
- **Vertebrata:**
 - It is also called Craniata, any animal of the subphylum Vertebrata, the predominant subphylum of the phylum Chordata.

- They have backbones, from which they derive their name.
- The vertebrates are also characterized by a muscular system consisting primarily of bilaterally paired masses and a central nervous system partly enclosed within the backbone.
- Notochord is present in the embryonic stage and is replaced by a vertebral column in the adult.
- Examples - Fishes, amphibians, reptiles, birds, and mammals.

94. Answer: c

Explanation:

The correct answer is Federalism.

★ Key Points

- In the Federal form of Government, the power is shared between the central government and the states.
- In a Unitary form of government, the Union government has all the powers and the state governments are subordinate to it.
- **Federal Features of Indian Constitution:**
 1. Dual polity
 2. Written Constitution
 3. Division of powers (seventh schedule)
 4. The supremacy of the constitution
 5. Rigid constitution (basic structure)
 6. Independent judiciary (headed by SC)
 7. Bicameralism (Lok Sabha and Rajya sabha)

★ Additional Information

- From the various judgments, the following have emerged as 'basic features of the Constitution or elements/components/ingredients of the 'basic structure' of the constitution:
 - The supremacy of the Constitution.

- Separation of powers between the legislature, the executive and the judiciary.
- Republic and democratic form of government.
- Secular character of the Constitution.
- Federal character of the Constitution.
- Sovereignty and unity of India.
- Freedom and dignity of the individual.
- Parliamentary System.
- The mandate to build a welfare state.
- **India as a sovereign democratic republic.**
- Equality of status and opportunity of an individual.
- Secularism and freedom of conscience and religion.
- Government of laws and not of men (i.e., Rule of Law)
- Judicial review.
- Free and fair elections which is implied in democracy.
- Limited power of Parliament to amend the constitution.
- Harmony and balance between fundamental rights and directive principles.
- Effective access to justice.
- Welfare State (Socioeconomic justice).
- Powers of the Supreme Court under Articles 32, 136, 141 and 142
- Principle of equality
- **Independence of judiciary.**
- Powers of the High Court under Articles 226 and 227.
- Limited power of Parliament to amend the Constitution.

95. Answer: c

Explanation:

The correct answer is Prarthana Samaj.

★ Key Points

- The Prarthana Samaj was founded in 1867.

- It was founded by Dadoba Pandurang and Atmaram Pandurang.
- Prarthana Samaj played a very important role in the Maharashtra renaissance.
- It focused on religious and social reform in Maharashtra.
- The mouthpiece called 'Subodh-Patrika' was run by the Prarthana Samaj.
- Veeresalingam Pantulu was the Telugu reformer who encouraged the Prarthana Samaj in South India.

★ Additional Information

- Raja Ram Mohan Roy is the founder of Brahmo Samaj in 1828.
- Swami Dayanand Saraswati is the founder of Arya Samaj in 1875.
- Jyotirao Phule founded the Satyashodhak Samaj in 1873 at Pune, Maharashtra.

96. Answer: d

Explanation:

The correct answer is Venus.

★ Key Points

- Venus as the twin of the earth:
- Venus is sometimes called Earth's twin because Venus and Earth are almost the same size, have about the same mass (they weigh about the same), and have a very similar composition (are made of the same material).
- They are also neighbouring planets.
- However, Venus and Earth are also very different.
- Venus has an atmosphere that is about 100 times thicker than Earth's and has surface temperatures that are extremely hot.
- Venus does not have life or water oceans like Earth does.
- Venus also rotates backwards compared to Earth and the other planets.

Hence, Venus is considered as 'Earth's-twin' because its size and shape are very much similar to that of the earth.

★ Shortcut Trick

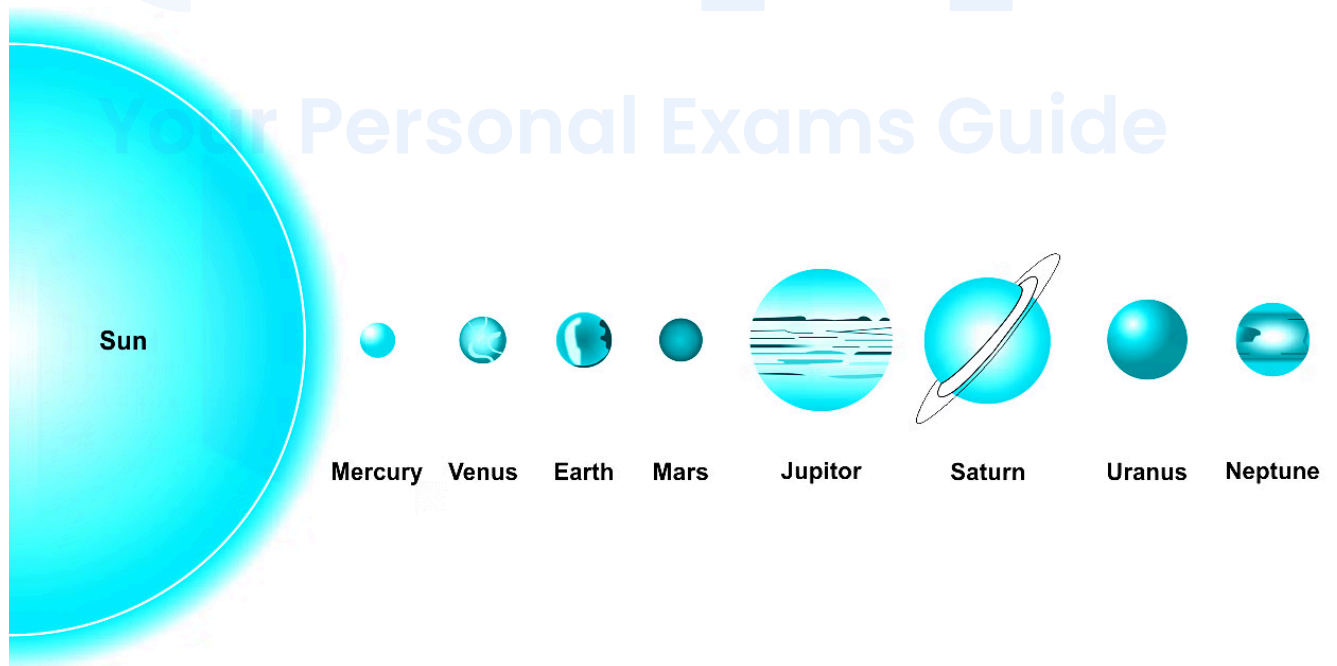
- My Very Excited Mother Just Served Us Nachos

M → Mercury, V → Venus, E → Earth, M → Mars, J → Jupiter, S → Saturn, U → Uranus, N → Neptune

★ Additional Information

- The Solar System contains 8 planets:

Inner or Terrestrial planets	<ol style="list-style-type: none">1. Mercury2. Venus3. Earth4. Mars
Outer Planets or Jovian planets	<ol style="list-style-type: none">1. Jupiter2. Saturn3. Uranus4. Neptune



97. Answer: b

Explanation:

The correct answer is Vijayalaya.

★ Key Points

- Vijayalaya was the founder of the Chola Dynasty.
- He captured the Kaveri delta which was under the control of the Muttaraiyar and built Thanjavur.
- Thanjavur is the 7th biggest city in Tamil Nadu.
- Brihadeswara Temple is located in Thanjavur.
- Thanjavur is also home to Tanjore painting.

★ Additional Information

- Chola Empire:
 - A minor chiefly family known as the Muttaraiyar held power in the Kaveri delta.
 - They were subordinate to the Pallava kings of Kanchipuram.
 - Vijayalaya, who belonged to the ancient chiefly family of the Cholas from Uraiyur, captured the delta from the Muttaraiyar in the middle of the ninth century.
 - He built the town of Thanjavur and a temple for goddess Nishumbhasudini there.
 - The successors of Vijayalaya conquered neighboring regions and the kingdom grew in size and power.
 - The Pandyan and the Pallava territories to the south and north were made part of this kingdom.
 - The Cholas are believed to have overthrown the Pallavas in south India.
 - They became prominent in the 9th century and established an empire comprising the major portion of South India.
 - They also extended their control in Sri Lanka and the Malay peninsula and are thus called 'Imperial Cholas'.

- Thousands of inscriptions found in the temples provide detailed information regarding the administration, society, economy, and culture of the Chola period.
- The founder of the Imperial Chola line was Vijayalaya .

98. Answer: b

Explanation:

The correct answer is The Story of My Experiments with Truth.

★ Key Points

- **Mahatma Gandhi** is commonly considered the father of the nation India.
 - He was born on 2 October 1869.
 - He went to South Africa to practice law in 1893.
 - He started Phoenix settlement at Durban.
 - Started Tolstoy farm at Johannesburg in South Africa.
 - Returned to India on 9th January 1915.
 - The Champaran Satyagraha of 1917 was the first Satyagraha movement led by Gandhi in India.
 - Gandhiji launched Salt Satyagraha against the tax on salt in 1930.
 - He was assassinated on 30th January 1948.
 - Notable works:
 - Harijan.
 - Indian Opinion.
 - Young India.
 - The Story of My Experiments with Truth.
 - Satyagraha in South Africa.
 - Hind Swaraj or Indian Home Rule.

★ Additional Information

Person	Works
Jawaharlal Nehru	<ul style="list-style-type: none"> • The Discovery of India. • An Autobiography. • Glimpses of world history. • Letters from a Father to His Daughter. • Letters for a Nation: From Jawaharlal Nehru to His Chief Ministers 1947-1963. • A Bunch of Old Letters. • The unity of India. • India's freedom. • India and the World.
A. P. J. Abdul Kalam	<ul style="list-style-type: none"> • Wings of Fire. • India 2020. • Ignited Minds. • Naa Jeevana Gamanam. • Turning Points. • Adama Saahas. • You Are Born To Blossom. • Inspiring thoughts. • Target 3 Billion. • Forge your Future.
Narendra Modi	<ul style="list-style-type: none"> • Exam Warriors. • Jyotipunj. • Convenient Action: Continuity for Change. • A Journey: Poems. • Social Harmony.

99. Answer: b

Explanation:

The correct answer is Hampi Koneru.

★ Key Points

- Indian Grandmaster Koneru Humpy claimed the 2019 Women's World Rapid Chess Champion title.
 - The winner of the Women's World Rapid Championship was decided in a playoff that ended with Hampi defeating China's Lei Tingjie in a dramatic final in Moscow, Russia.
 - Humpy lost the first tie-break game and then won the second to reach the Armageddon game.
 - China's Lei Tingjie won silver and Turkey's Ekaterina Atlik won bronze.
 - **Humpy, who won Viswanathan Anand in 2017, is only the second Indian to win gold faster in the current format.**
 - It is a significant victory for Hampi, who took a two-year sabbatical from 2016 to 2018 after becoming a mother.
 - She is now more comfortable in the classical format and was clearly trying to take her skills to a new level in the fast format.

★ Additional Information

- **Tania Sachdev**
 - Tania Sachdev is an Indian chess player, who holds the FIDE titles of International Master and Woman Grandmaster.
 - She is also a chess presenter and commentator.
- **Harika Dronavalli**
 - Harika Dronavalli is an Indian chess grandmaster.
 - She gradually came to prominence winning the World Youth Chess Championship in the Girls' Under-14 and Under-18 categories
- **Bhakti Kulkari**
 - Bhakti Kulkari became Goa's first woman grandmaster after her name was cleared by World Chess Federation.

100. Answer: d

Explanation:

The correct answer is Odisha.

★ Key Points

- The ninth edition of the International Sand Art Festival has begun at the Chandrabhaga Beach of Konark in Odisha's Puri district.
- Sudarsan Pattnaik, world-renowned sand artist and Padmashree Awardee, has been appointed as Chief Curator of the festival.
- Every year, the festival is celebrated with great fervour in the first week of December.
- The sand art Festival displays Spectacular sand art by skilful artists from India and around the world.

★ Additional Information

- World-recognised sand artists from Mexico, Spain, Singapore, France, Norway, Germany, Netherlands, etc.
- The theme of the 2020 event is 'Environment and covid-19.
- 70 artists from across India.
- The International Sand Art Festival was started in 2015 on Chandrabhaga beach, a short distance from Konark.
- 12th International Sand Art Festival, 2022 scheduled to be held on 1st – 5th December 2022 at Chandrabhaga Beach near Konark, Dist. Puri, Odisha.

★ Important Points

- About Odisha.
 - Capital-Bhubaneswar.
 - Chief-Minister-Naveen Patnaik
 - Governor-Ganeshi Lal
 - Odisha is famous for its heritage sites and enthralling view