

Prepp

Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC GD Constable 2021 (English) Prev. Year Paper (13-Dec-2021) (Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

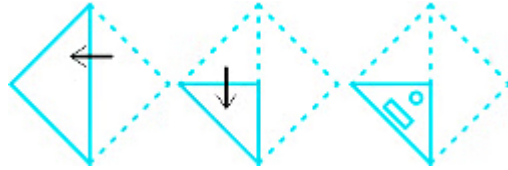
Instructions

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

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

General Intelligence and Reasoning

1. 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)



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

(64, 51, 38)

- a. (52, 46, 40)

- b. (90, 120, 64)
- c. (22, 50, 79)
- d. (45, 54, 99)

3. In a certain code language, 'STORE' is coded as '8712922' and 'PURE' is coded as '116922'. How will 'ASSURED' be written in that language? (+1, -0.25)

- a. 2688982223
- b. 2688692223
- c. 2695872223
- d. 2686982223

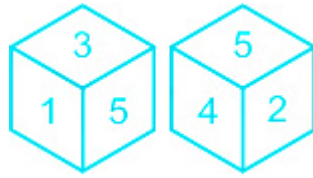
4. Select the set of classes the relationship among which is best represented by the following Venn diagram. (+1, -0.25)



- a. Students, Part-time workers, Girls
- b. Engineers, Illiterates, Urban residents
- c. Females, Mothers, Sisters
- d. Mammals, Human beings, Reptiles

5. Two different positions of the same dice are shown, the six faces of which are numbered 1 to 6. Select the number that will be on the face opposite to (+1, -0.25)

the face showing the number '5'.



- a. 1
- b. 3
- c. 6
- d. 2

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

7, 13, 25, 43, ?, 97

- a. 67
- b. 56
- c. 61
- d. 63

7. A jug of 147 ml volume capacity is to be filled with water by using the minimum number of glasses from among three glasses of 11 ml, 17 ml and 23 ml capacity. The glasses can be used only at their fullest capacity and each glass has to be used at least once. How many minimum number of glasses would be needed to fill the jug fully by using these three glasses? (+1, -0.25)

- a. 9

- b. 11
- c. 12
- d. 10

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

$$60 : 28 :: ? : 41 :: 70 : 33$$

- a. 94
- b. 102
- c. 89
- d. 86

9. 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:

- 1. All nurses are doctors.
- 2. All doctors are designers.
- 3. Some nurses are architects.

Conclusions:

- I. Some designers are architects.

II. No doctor is an architect.

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

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

13, 7, 6, ?, 19, 50

- a. 11
- b. 10.5
- c. 12.5
- d. 4.5

Your Personal Exams Guide

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

P R _ _ U C _ _ R O D U _ _ P R O D _ _ T

- a. ODCPTCUT
- b. ODPTUTCC
- c. ODTCTPUC
- d. ODTPCTUC

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

- a. MRF
- b. LIP
- c. HOT
- d. POD

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

$$50 A 19 B (36 D 2) C 3 A 15 A (10 D 5) = ?$$

- a. 44
- b. 40
- c. 32
- d. 28

14. Pointing to the photograph of Krip, Poorvi said, "He is my brother's wife's only daughter's paternal grandfather's son." How is Poorvi related to Krip? (+1, -0.25)

- a. Paternal grandmother
- b. Mother
- c. Daughter
- d. Sister

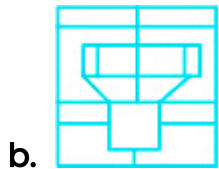
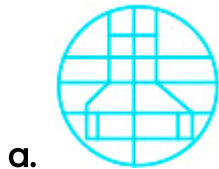
15. K, L, M, N, O, P, Q and R are sitting around a circular table with their backs towards the centre of the table. R is to the immediate left of M, who is second to the left of P. K is at fourth place to the right of P. Q is between L and N. R is second to the right of L. Who is sitting between M and P? (+1, -0.25)
- L
 - N
 - O
 - R

16. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown. (+1, -0.25)



- T00922T0H
- H0142B00L
- T04920T0H
- H0102B40L

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



18. In a certain code language, 'FESTIVAL' is written as 'UTFGMBWJ'. How will 'MAJESTIC' be written in that language? (+1, -0.25)

- a. NBKFTUJE
- b. FKBNDJUT
- c. BNFKUTRX
- d. CJURFBKT

19. 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.

QZCT : JAXG :: MRDY : ?

- a. NIHS
- b. QUBM
- c. GIES
- d. NIWB

20. Four persons, Deepak, Gurkiran, Shahid and Vikrant, are sitting around a square shaped table facing the centre. They are sitting in such a way that each person is at the middle of each side of the table. Vikrant is to the immediate right of Deepak. Shahid is facing Vikrant. Who is sitting to the immediate left of Gurkiran? (+1, -0.25)

- a. Either Shahid or Deepak
- b. Vikrant
- c. Shahid
- d. Deepak

21. In a certain code language, 'CAR' is written as 'XZI' and 'TOP' is written as 'GLK'. How will 'FATHER' be written in that language? (+1, -0.25)

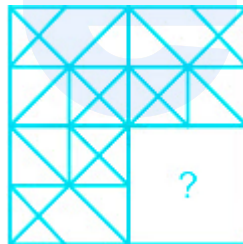
- a. WZGHUI
- b. VZHTKI
- c. UZGSVI
- d. UZHTVJ

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

HK, FM, DO, BQ, ?, XU, VW

- a. WS
- b. ZS
- c. ZK
- d. AK

23. Select the figure from among the given options that can replace the question mark (?) in the following series (rotation is NOT allowed). (+1, -0.25)



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

1. Mosaic
2. Mortise
3. Morpheus
4. Mortified
5. Morris

- a. 3, 5, 4, 2, 1
- b. 3, 2, 5, 4, 1
- c. 3, 5, 2, 4, 1
- d. 3, 4, 5, 2, 1

25. 'Mount Everest' is related to 'Mountain' in the same way as 'Nobel' is related to '-----'. (+1, -0.25)

- a. Fame
- b. Duty
- c. Book
- d. Prize

General Knowledge and General Awareness

26. Which of the following persons does NOT feature in Forbes 'World's Billionaires List', 2021? (+1, -0.25)
- a. Shiv Nadar
 - b. Adar Poonawalla
 - c. Radhakishan Damani
 - d. Uday Kotak
-

27. 'A Promised Land' is a book by ----- (+1, -0.25)
- a. Nelson Mandela
 - b. Barack Obama
 - c. Milkha Singh
 - d. Priyanka Chopra
-

28. Which of the following terms is NOT associated with the temple architecture in India? (+1, -0.25)
- a. Vesara
 - b. Dravida
 - c. Oordhwaka
 - d. Nagara
-

29. Which was the only sector in the Indian economy that showed an increased GVA (Gross Value Added) of 3.4% in the first quarter of 2020? (+1, -0.25)
- a. Services
 - b. Manufacturing
 - c. Construction
 - d. Agriculture
-

30. In which year were the islands of Laccadive, Minicoy, and Amindivi changed into Union Territory of Lakshadweep by an Act of Parliament? (+1, -0.25)
- a. 1972
 - b. 1971
 - c. 1974
 - d. 1973
-

31. AG Tansley put forward the concept of _____ in 1935. (+1, -0.25)
- a. ecosystem
 - b. motion
 - c. zero
 - d. respiration
-

32. Which of the following statements is CORRECT in relation to chemical bases? (+1, -0.25)
- a. Bases are sticky to touch, sour to taste and corrosive.
 - b. Bases are soapy to touch, bitter to taste and corrosive.
 - c. Bases are soapy to touch, sour to taste and corrosive.
 - d. Bases are sticky to touch, bitter to taste and corrosive.
-

33. A dendritic drainage pattern is formed _____. (+1, -0.25)
- a. when a river is joined by its tributaries at approximately right angles
 - b. when the river channel follows the slope of the terrain and with its tributaries resembles the branches of a tree
 - c. on a strongly jointed rocky terrain
 - d. when streams flow in different directions from a central peak or dome like structure
-

34. In which of the following countries is the headquarters of ICC (International Cricket Council) located? (+1, -0.25)
- a. The UAE
 - b. India
 - c. Australia
 - d. The UK

35. Into how many books (Mandalas) is the Rigveda divided? (+1, -0.25)

- a. 16
 - b. 10
 - c. 5
 - d. 13
-

36. The 'kharaj' tax imposed by Alauddin Khalji was equal to about _____ (+1, -0.25)
% of a peasant's produce.

- a. 10
 - b. 25
 - c. 20
 - d. 50
-

37. The SpaceX Crew Dragon spacecraft launched into orbit in November (+1, -0.25)
2020 had three American and one _____ astronaut onboard.

- a. Japanese
 - b. South Korean
 - c. Russian
 - d. Chinese
-

38. What is SIMBEX-20? (+1, -0.25)

- a. A financial benchmark created to ascertain the growth of the economic relationship between India and Singapore
 - b. A bilateral maritime exercise between India and Singapore
 - c. A bilateral maritime exercise between India and Saudi Arabia
 - d. A financial benchmark created to ascertain the growth of the economic relationship between India and Saudi Arabia
-

39. Which mission was initiated by the British Government to India to secure full Indian cooperation for their efforts in World War II? (+1, -0.25)

- a. Irwin
 - b. Simon
 - c. Cripps
 - d. Cornwallis
-

40. The first session of the Indian National Congress was held in Bombay in _____ under the Presidentship of Womesh Chandra Banerjee. (+1, -0.25)

- a. December, 1885
 - b. November, 1906
 - c. January, 1884
 - d. October, 1882
-

41. Which Act allows persecution of a person who being abroad refuses to return to India to face criminal prosecution? (+1, -0.25)

- a. Bankers Book Evidence Act, 1891
 - b. Fugitive Economic Offenders (FEO) Act, 2018
 - c. The Depositories Act, 1996
 - d. International Financial Services Centres Authority Act, 2019
-

42. The Advocate-General holds office during the pleasure of: (+1, -0.25)

- a. the Attorney-General
 - b. the Prime Minister
 - c. the Governor
 - d. the Chief Minister
-

43. The Bare Necessities Index (BNI) constructed by the Economic Survey 2020-21 integrates 26 indicators across five dimensions. Which of the following is NOT one of them? (+1, -0.25)

- a. Employment
 - b. Sanitation
 - c. Housing
 - d. Water
-

44. Which of the following folk dances is performed holding a sword in one hand and a shield in the other? (+1, -0.25)

- a. Santhal

- b. Jadur
 - c. Karma
 - d. Paika
-

45. As of 2015, how many states were the focus of the World Bank funded National Ganga River Basin Projects (NGRBP) of National Mission for Clean Ganga (NMCG)? (+1, -0.25)

- a. Nine
 - b. Five
 - c. Seven
 - d. Three
-

46. In November 2020, Nitish Kumar became the Chief Minister of Bihar for the consecutive _____ time. (+1, -0.25)

- a. third
 - b. second
 - c. fourth
 - d. fifth
-

47. Which of the following tree/plant is used in the treatment of cough and cold? (+1, -0.25)

- a. Sarpagandha

- b. acacia
 - c. basil
 - d. Kachnar
-

48. Where did India stand in the FIFA world ranking which was revealed in June 2020? (+1, -0.25)

- a. 107
 - b. 106
 - c. 108
 - d. 105
-

49. Which of the following nations emerged as the second-biggest source of foreign direct investment (FDI) into India during April–September 2020, according to data by the Ministry of Commerce and Industry in India? (+1, -0.25)

- a. The US
 - b. Japan
 - c. France
 - d. Mauritius
-

50. Which of the following was the title sponsor of the 2020 Women's T20 Challenge (cricket)? (+1, -0.25)

- a. Paytm

- b. Jio
- c. Dream 11
- d. Unacademy

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Elementary Mathematics

51. Six years ago, the ratio of the ages of A and B was 17 : 13, and the ratio of their present ages is 5 : 4. What will be the ratio of their ages after 4 years from now? **(+1, -0.25)**
- a. 4 : 3
 - b. 3 : 2
 - c. 9 : 5
 - d. 11 : 9
-
52. A shopkeeper bought 200 notebooks at the rate of Rs. 80 for 5. He sold half of them at the cost price and the remaining notebooks at the rate of Rs. 100 for 5. What is his profit percentage? **(+1, -0.25)**
- a. 15%
 - b. 10%
 - c. 12.5%
 - d. 12%
-
53. A car was sold for Rs. 66,000 at a gain of 10%. Had it been sold for Rs. 600 more, then the percentage gain would have been: **(+1, -0.25)**
- a. 15%
 - b. 13%
 - c. 11.5%

d. 11%

54. A sum of Rs. 6,400 amounts to Rs. 8,848 in $4\frac{1}{2}$ years at a certain rate per annum at simple interest. What will be the amount (in Rs.) of a sum of Rs. 9,000 in $2\frac{2}{5}$ years at the same rate at simple interest? **(+1, -0.25)**

a. 10,646

b. 10,764

c. 10,836

d. 10,863

55. A trader purchased a room cooler for Rs. 5,400. After allowing a discount of 25%, he gains 25%. What is the price marked on the room cooler? **(+1, -0.25)**

a. Rs. 3,600

b. Rs. 6,750

c. Rs. 1,350

d. Rs. 9,000

56. Solutions A and B contain acid and water in the ratio 3 : 5 and 9 : 7, respectively. Solution A and B are mixed into the ratio of 2 : 3. What is the ratio of acid and water in the resulting solution? **(+1, -0.25)**

a. 9 : 11

b. 19 : 21

c. 39 : 41

d. 37 : 43

57. The amount of a certain sum at simple interest at 15% p.a. in $5\frac{1}{2}$ years, is Rs. 1,755 more than the simple interest on the same sum at the same rate in 10 years. What is the sum (in Rs.)? **(+1, -0.25)**

a. 5,400

b. 5,500

c. 5,800

d. 5,200

58. What is the average of eight smallest even natural numbers which are NOT divisible by 3? **(+1, -0.25)**

a. 12

b. 11

c. 9

d. 8

59. What is the total surface area of a hemispherical solid having radius 14 cm? (Use $\pi = \frac{22}{7}$) **(+1, -0.25)**

a. 1232 cm²

b. 616 cm²

c. 2352 cm²

d. 1848 cm^2

60. A number p increased by $p\%$ of 99 equals 99 increased by 99% of p . What is $(p + 51)\%$ of $928 + 72$? (+1, -0.25)

a. 1392

b. 1500

c. 1464

d. 1371.2

61. If $a : b = 9 : 7$, then what is $(11a - 9b) : (2a + 3b)$? (+1, -0.25)

a. 12 : 13

b. 54 : 13

c. 4 : 21

d. 4 : 13

62. A man sold a radio and a TV set together for Rs. 20,850, thereby making a profit of 20% on the radio and 15% on the TV set. If he had sold them together for Rs. 21,450, then he would have made 15% profit on the radio and 20% profit on the TV set. The cost price of the TV set was: (+1, -0.25)

a. Rs. 18,000

b. Rs. 15,000

c. Rs. 24,000

d. Rs. 20,000

63. The speed of B in completing a work is 3 times that of A. If B completes the work in 28 days, then how many days will they take to complete the same work if they work together? (+1, -0.25)

- a. 21 days
 - b. 22 days
 - c. $22\frac{2}{5}$ days
 - d. 14 days
-

64. The value of $\frac{5}{6} \div \frac{5}{6} \text{ of } \frac{5}{6} \times 1\frac{2}{3} + \frac{3}{4} \div \frac{4}{3} \text{ of } 1\frac{1}{2} - 1\frac{1}{2} - \frac{5}{6} \div \frac{3}{4}$ is: (+1, -0.25)

- a. $\frac{-17}{72}$
 - b. $\frac{-29}{18}$
 - c. $\frac{7}{8}$
 - d. $\frac{28}{9}$
-

65. Two cars are running towards each other at the speeds of 45 km/h and 70 km/h, respectively. What will be the distance between them 12 min before they meet? (+1, -0.25)

- a. 23 km
- b. 21 km
- c. 22 km

d. 20 km

66. If the sum of the simple interest on Rs. 16,400 for 3 years at the rate of interest R and that on Rs. 18,000 for 4 years at the same rate R is Rs. 10,302, then the value of R will be: (+1, -0.25)

a. 8%

b. 9%

c. 10.5%

d. 8.5%

67. The ratio of the sides of a rectangular field is 3 : 2 and its perimeter is 600 m. The area of square field is 6 times the area of the rectangular field. The perimeter (in m) of the square field is: (+1, -0.25)

a. 1440

b. 1200

c. 1280

d. 1120

68. Simplify the following expression. (+1, -0.25)

$$(-5) \text{ of } (-45) \div (-15) - (-3) + 5 \times \frac{1}{15}$$

a. $18\frac{1}{3}$

b. $-11\frac{2}{3}$

c. $3\frac{74}{225}$

d. $3\frac{2}{15}$

69. The value of $25 - 4$ of $(14.4 \div 9) + 16 \times 0.4$ is: (+1, -0.25)

a. 5

b. 0

c. 25

d. 20

70. The average of 19 numbers is 46. The average of the first 5 numbers is 49 and the average of the next 6 numbers is 54. What is the average of the remaining numbers? (Correct to one decimal place) (+1, -0.25)

a. 43.5

b. 33.9

c. 42.4

d. 38.1

71. Two men can complete as much work as 3 women can do in a certain time. Ten men and 6 women can complete work in 5 days. If 4 men and 9 women work together, then in how many days will they be able to complete the same work? (+1, -0.25)

a. 8

b. 7

c. $6\frac{1}{2}$

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

72. A 320 m long train crosses a platform thrice its length in 90 seconds. (+1, -0.25)
What is the speed (in km/h) of the train?

a. 48

b. 54

c. 50.4

d. 51.2

73. If 200% of $k - (k + 2)\%$ of $50 = k$, then what is the value of k ? (+1, -0.25)

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

b. $\frac{100}{149}$

c. 2

d. 1

74. If $a = 2 \times 3^2 \times 5$, $b = 3^4 \times 5 \times 7$, $c = 2^2 \times 3 \times 7$, then what is the LCM of a , b and c ? (+1, -0.25)

a. 3

b. 3780

c. 5670

d. 12,56,640

75. The market price of an article is Rs. 480. After a discount of 18% on the marked price, a shopkeeper earns a profit of Rs. 63.60. His percentage gain is: (+1, -0.25)

a. $19\frac{1}{11}\%$

b. $19\frac{3}{11}\%$

c. $13\frac{1}{4}\%$

d. $13\frac{3}{4}\%$

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English

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

When I got back / to the flat, / I found that / I was locked out.

- a. I found that
- b. to the flat
- c. I was locked out
- d. When I got back

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

My grandmother is _____ to the bed.

- a. confined
- b. concealed
- c. concerned
- d. confirmed

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

- a. Attention
- b. Immediate
- c. Appeal

d. Arrogent

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

Go or come after a person or thing proceeding ahead

- a. Race
 - b. Follow
 - c. Hunt
 - d. Search
-

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

She arrived / at / Monday morning / to attend the marriage.

- a. to attend the marriage
 - b. She arrived
 - c. Monday morning
 - d. at
-

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

Connected with the sense of touch

- a. Auditory

- b. Olfactory
 - c. Visual
 - d. Tactile
-

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

There is two pens in the box.

- a. No substitution required
 - b. have
 - c. was
 - d. are
-

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

Common

- a. Usual
 - b. Scarce
 - c. Particular
 - d. Individual
-

84. Select the option that is closest in meaning to the underlined idiom/phrase in the given sentence. (+1, -0.25)

The teacher couldn't make head or tail of the student's answer.

- a. recommend
 - b. understand
 - c. overlook
 - d. appreciate
-

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

Originate

- a. Emerge
 - b. Terminate
 - c. Exist
 - d. Continue
-

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

She made the shopkeeper to take back the damaged headset.

- a. take back
 - b. taken back
 - c. No substitution required
 - d. taking back
-

87. 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)

Mr. Sharma is one of / the best teacher / I have ever seen.

- a. the best teacher
- b. I have ever seen
- c. Mr. Sharma is one of
- d. No error

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

Traffic _____ is a very serious problem in metro cities.

- a. congestion
- b. chain
- c. collection
- d. gathering

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

One who makes an eloquent public speech

- a. Presenter
- b. Lecturer

- c. Orator
 - d. Mentor
-

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

When she _____ the hall, she was pleasantly surprised.

- a. appeared
 - b. entered
 - c. intruded
 - d. arrived
-

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

Bargain

- a. Deal
 - b. Gain
 - c. Dispute
 - d. Disagreement
-

92. 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)

What fun is it to ride a rollercoaster with friends!

- a. it is to ride

- b. No improvement required
 - c. it is for riding
 - d. is it riding
-

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

Out of question

- a. Wishful
 - b. Impossible
 - c. Difficult
 - d. Doubtful
-

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

- a. Ommitted
 - b. Committed
 - c. Remitted
 - d. Submitted
-

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

Severe

- a. Short
- b. Sharp

c. Narrow

d. Mild

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

Riding a bicycle, also called cycling, has a number of health (1) _____. Cycling is an aerobic activity, which means your heart, lungs and blood vessels all get a workout. It also helps (2) _____ stamina and physical strength. Another important advantage is that cycling helps (3) _____ endorphins or the feel-good chemicals in the brain (4) _____ help reduce stress levels. People who (5) _____ cycling as an exercise find that they have more energy for their day-to-day activities.

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

- a. traits
- b. benefits
- c. credits
- d. values

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

Riding a bicycle, also called cycling, has a number of health (1) _____. Cycling is an aerobic activity, which means your heart, lungs and blood vessels all get a workout. It also helps (2) _____ stamina and physical strength. Another important advantage is that cycling helps (3) _____ endorphins or the feel-good chemicals in the brain (4) _____ help

reduce stress levels. People who (5)_____ cycling as an exercise find that they have more energy for their day-to-day activities.

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

- a. build
- b. establish
- c. grow
- d. expand

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

Riding a bicycle, also called cycling, has a number of health (1)_____. Cycling is an aerobic activity, which means your heart, lungs and blood vessels all get a workout. It also helps (2)_____ stamina and physical strength. Another important advantage is that cycling helps (3)_____ endorphins or the feel-good chemicals in the brain (4)_____ help reduce stress levels. People who (5)_____ cycling as an exercise find that they have more energy for their day-to-day activities.

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

- a. clear
- b. leak
- c. release
- d. realise

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

Riding a bicycle, also called cycling, has a number of health (1)_____. Cycling is an aerobic activity, which means your heart, lungs and blood vessels all get a workout. It also helps (2)_____ stamina and physical strength. Another important advantage is that cycling helps (3)_____ endorphins or the feel-good chemicals in the brain (4)_____ help reduce stress levels. People who (5)_____ cycling as an exercise find that they have more energy for their day-to-day activities.

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

- a. thus
- b. such
- c. that
- d. who

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

Riding a bicycle, also called cycling, has a number of health (1)_____. Cycling is an aerobic activity, which means your heart, lungs and blood vessels all get a workout. It also helps (2)_____ stamina and physical strength. Another important advantage is that cycling helps (3)_____ endorphins or the feel-good chemicals in the brain (4)_____ help reduce stress levels. People who (5)_____ cycling as an exercise find that they have more energy for their day-to-day activities.

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

- a. take off
- b. take up
- c. take out
- d. take after

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Answers

1. Answer: a

Explanation:

According to given figure:

The figure will appear when it is opened as follows:



Hence, "Option - (1)" is the correct answer.

2. Answer: a

Explanation:

Logic : (Second number - First number) = (Second number - Third number)

Given : (64, 51, 38)

$$64 - 51 = 51 - 38$$

$$13 = 13 \text{ (LHS = RHS)}$$

So,

- (52, 46, 40)

$$(52 - 46) = (46 - 40)$$

$$6 = 6 \text{ (LHS = RHS)}$$

- (90, 120, 64)

$$(120 - 90) = (120 - 64)$$

$$30 \neq 56 \text{ (LHS} \neq \text{RHS)}$$

- (22, 50, 79)

$$(50 - 22) = (50 - 79)$$

$$28 \neq -29 \text{ (LHS} \neq \text{RHS)}$$

- (45, 54, 99)

$$(54 - 45) = (54 - 99)$$

$$9 \neq -45 \text{ (LHS} \neq \text{RHS)}$$

Hence, "(52, 46, 40)" is the correct answer.

3. Answer: b

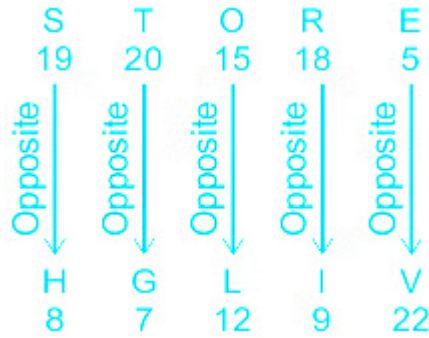
Explanation:

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

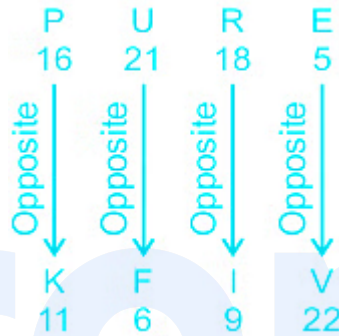
Logic : Position value of opposite letter according to English alphabetic series.

So,

- STORE is written as :

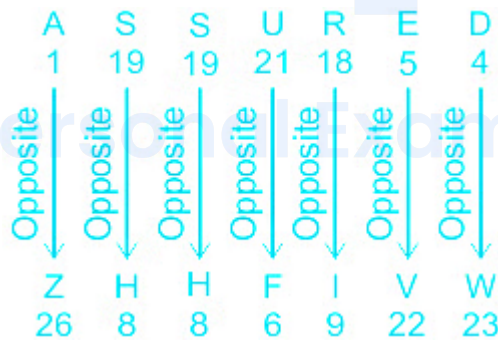


- PURE is written as :



Similarly,

- ASSURED is written as :



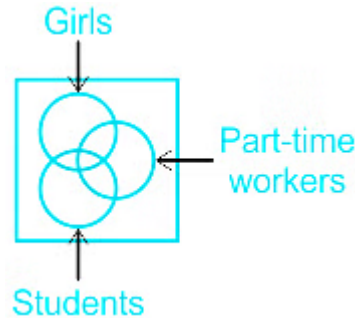
Hence, "2688692223" is the correct answer.

4. Answer: a

Explanation:

The set of words that best represented by the given Venn diagram is shown below:

1) Students, Part-time workers, Girls - As girls can be both students and part-time worker. Students can be both part-time workers. Part-time workers can be both students and girls.



2) Engineers, Illiterates, Urban residents - engineers can not be illiterates. ⇒ Option - 2 eliminated

3) Females, Mothers, Sisters - Mothers and sisters will come inside females. Mothers can be sisters ⇒ Option - 3 eliminated

4) Mammals, Human beings, Reptiles - Human beings will come inside mammals. Reptiles is different from both human beings and mammals ⇒ Option - 4 eliminated

Hence, "**Students, Part-time workers, Girls**" is the correct answer.

5. Answer: c

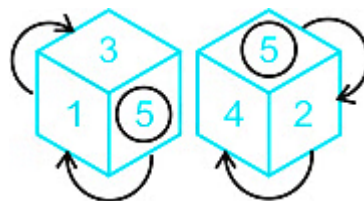
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Explanation:

The logic followed here is :-

From the given two different cubes the adjacent sides are as shown below :

As 5 is common on both the dice, it is clear that 1, 2, 3 and 4 are adjacent to it and remaining number i.e., 6 will be opposite to it.



Opposite pairs:

1 → 2

3 → 4

5 → 6

So, the opposite side of "6" will be side "5".

Hence, the correct answer is "5".

6. Answer: a

Explanation:

The pattern followed here is : Consecutive multiple of (6) is added.



Hence, "67" is the correct answer.

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7. Answer: a

Explanation:

Given :

- A jug of 147 ml volume capacity is to be filled with water by using the minimum number of glasses from among three glasses of 11 ml, 17 ml and 23 ml capacity.
- The glasses can be used only at their fullest capacity and each glass has to be used at least once.

To find : Minimum number of glasses would be needed to fill the jug fully by using these three glasses

Explanation :

Total capacity of the three glasses = $(11 + 17 + 23) \Rightarrow 51$ ml

Total capacity of jug = 147 ml

Now,

- First round = $(147 - 51)$

Left after 1st round = 96 ml

- Second round = $(147 - 51)$

Left after 2nd round = 45 ml

- Third round of 23 ml glass only = $(45 - 23)$

Left after 3rd round = 22 ml

As after third round 22 ml is left, which can be seen as two glasses of 11 ml glass, therefore:

- Fourth round of two glasses of 11 ml = $[22 - (11 \times 2)] \Rightarrow 0$

Thus, after the fourth round the capacity is full

\Rightarrow Minimum number of glasses used = 3 (1st round of all three glasses) + 3 (2nd round of all three glasses) + 1 (3 round of 1 glass of 23 ml) + 2 (4th round of 2 glasses of 11 ml)

= **9 Glasses (4 glasses of 11 ml + 2 glasses of 17 ml + 3 glasses of 23 ml)**

Hence, "9" is the correct answer.

8. Answer: d

Explanation:

Logic : (Second number \times 2) + 4 = First number

So,

- 60 : 28

$$(28 \times 2) + 4 = 60$$

$$56 + 4 = 60$$

$$60 = 60 \text{ (LHS = RHS)}$$

- 70 : 33

$$(33 \times 2) + 4 = 70$$

$$66 + 4 = 70$$

$$70 = 70 \text{ (LHS = RHS)}$$

Similarly,

- ? : 41

$$(41 \times 2) + 4 = ?$$

$$82 + 4 = ?$$

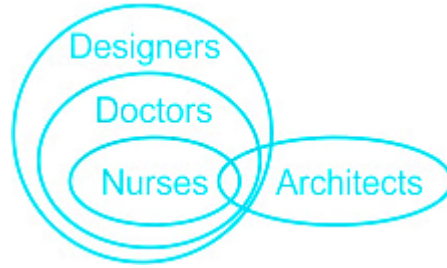
$$? = 86$$

Hence, "86" is the correct answer.

9. Answer: b

Explanation:

The least possible Venn diagram for the given statements is as shown below :



Conclusions:

I. Some designers are architects → Follow (As some nurses are architects, all doctors are designers. So, it is definitely true)

II. No doctor is an architect → **Does not follow** (As some nurses are architects, all doctors are designers. So, it is definitely true)

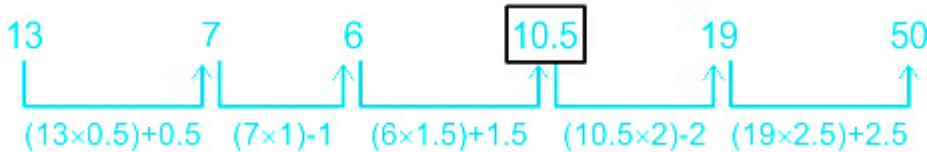
∴ Here, Only conclusion I follows .

Hence, the correct answer is " Only conclusion I follows".

10. Answer: b

Explanation:

The pattern followed here is :



Hence, "10.5" is the correct answer.

11. Answer: d

Explanation:

Given : P R _ _ U C _ _ R O D U _ _ P R O D _ _ T

By checking options :

1. ODCPTCUT → P ROD U CCP R O D UTC P R O DUT T → (It doesn't Follows the pattern)
2. ODPTUTCC → P R OD U CPT R O D UUT P R O DCC T → (It doesn't Follows the pattern)
3. ODTCTPUC → P R OD U CTC R O D U TP P R O D UC T → (It doesn't Follows the pattern)
4. ODTPCTUC → P R OD U CTP R O D UCT P R O D UC T → (It follows the pattern of : PRODUCT - PRODUCT - PRODUCT)

⇒Option - (1) gives the pattern of " P R OD U C I- P R O D U CT - P R O D UC T "

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

12. 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

Logic : Each letter-cluster include atleast one vowel.

So,

- MRF - It does not include any vowel.
- LIP - It includes one vowel i.e 'I'.
- HOT - It includes one vowel i.e 'O'.
- POD - It includes one vowel i.e 'O'.

Thus, out of the four letter-cluster only MRF does not include any vowel.

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

13. Answer: c

Explanation:

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

Given : 50 A 19 B (36 D 2) C 3 A 15 A (10 D 5) = ?

Letters	A	B	C	D
Meaning	+	-	×	÷

So, by interchanging the letters with the signs according to question :

$$50 + 19 - (36 \div 2) \times 3 + 15 + (10 \div 5) = ?$$

$$50 + 19 - 18 \times 3 + 15 + 2 = ?$$

$$50 + 19 - 54 + 15 + 2 = ?$$

$$86 - 54 = ?$$

$$? = 32$$

Hence, "32" is the correct answer.

14. Answer: d

Explanation:

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

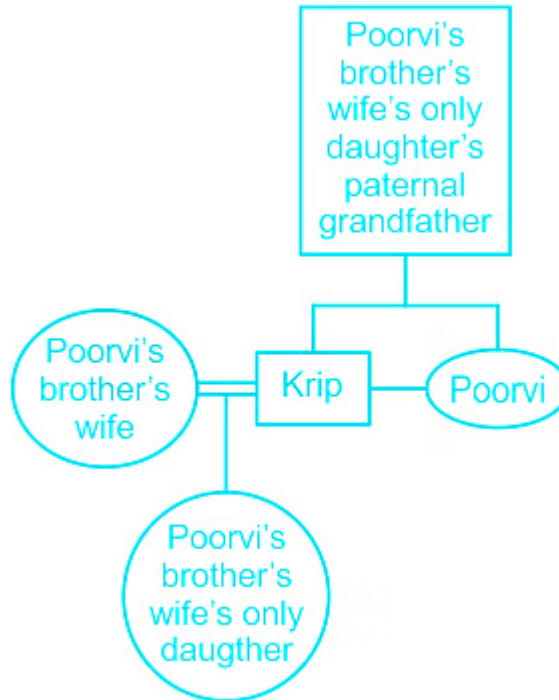
So, according to the question :

- Pointing to the photograph of Krip, Poorvi said, "He is my brother's wife's only daughter's paternal grandfather's son

→ Poorvi's brother's wife's is the sister-in-law of Poorvi

→ Poorvi's sister in law's only daughter means Poorvi's brother's daughter or Poorvi's niece.

→ Poorvi's niece's paternal grandfather means Poorvi's brother's father who will also be father of Poorvi too.



Thus, according to the final family tree Poorvi is the sister of Krip.

Hence, "Sister" is the correct answer.

15. Answer: c

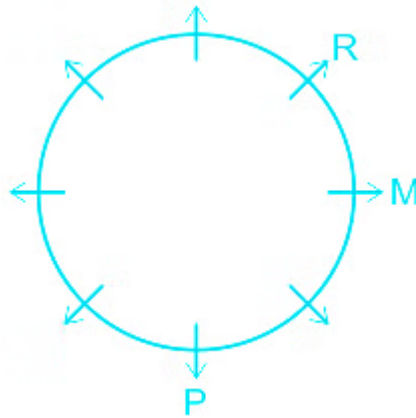
Explanation:

Given : K, L, M, N, O, P, Q and R are sitting around a circular table with their backs towards the centre of the table.

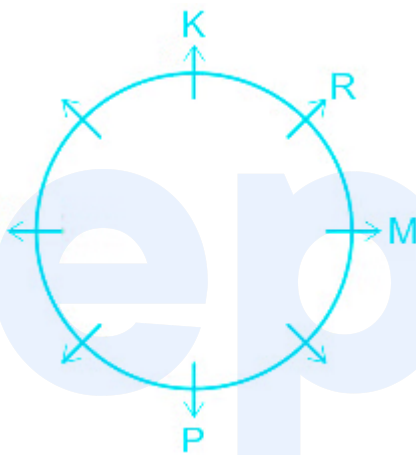
Explanation :

NOTE → As all of them are facing the center with their backs, therefore with respect to their sitting position i.e backwards, all of them will be facing outside.

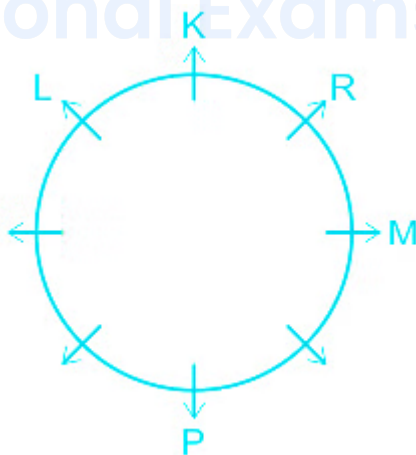
1) R is to the immediate left of M, who is second to the left of P.



2) K is at fourth place to the right of P.

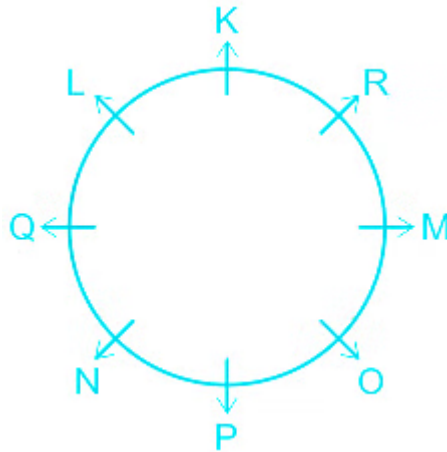


3) R is second to the right of L.



4) Q is between L and N.

As after positioning Q and N only one position is left which will be occupied by the only person left i.e O.



Thus, according to the final arrangement O is sitting between M and P.

Hence, "O" is the correct answer.

16. Answer: a

Explanation:

The correct mirror image of the given combination when mirror is placed at PQ is as shown below:



Detailed Explanation:

- The line PQ is the mirror
- The word "HOT4SP9OT" the mirror is placed vertically instead of horizontally ⇒ Option 2 is eliminated.
- The word "HOT4SP9OT" the fourth digit is "4". So, the mirror image should be "

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" instead of "

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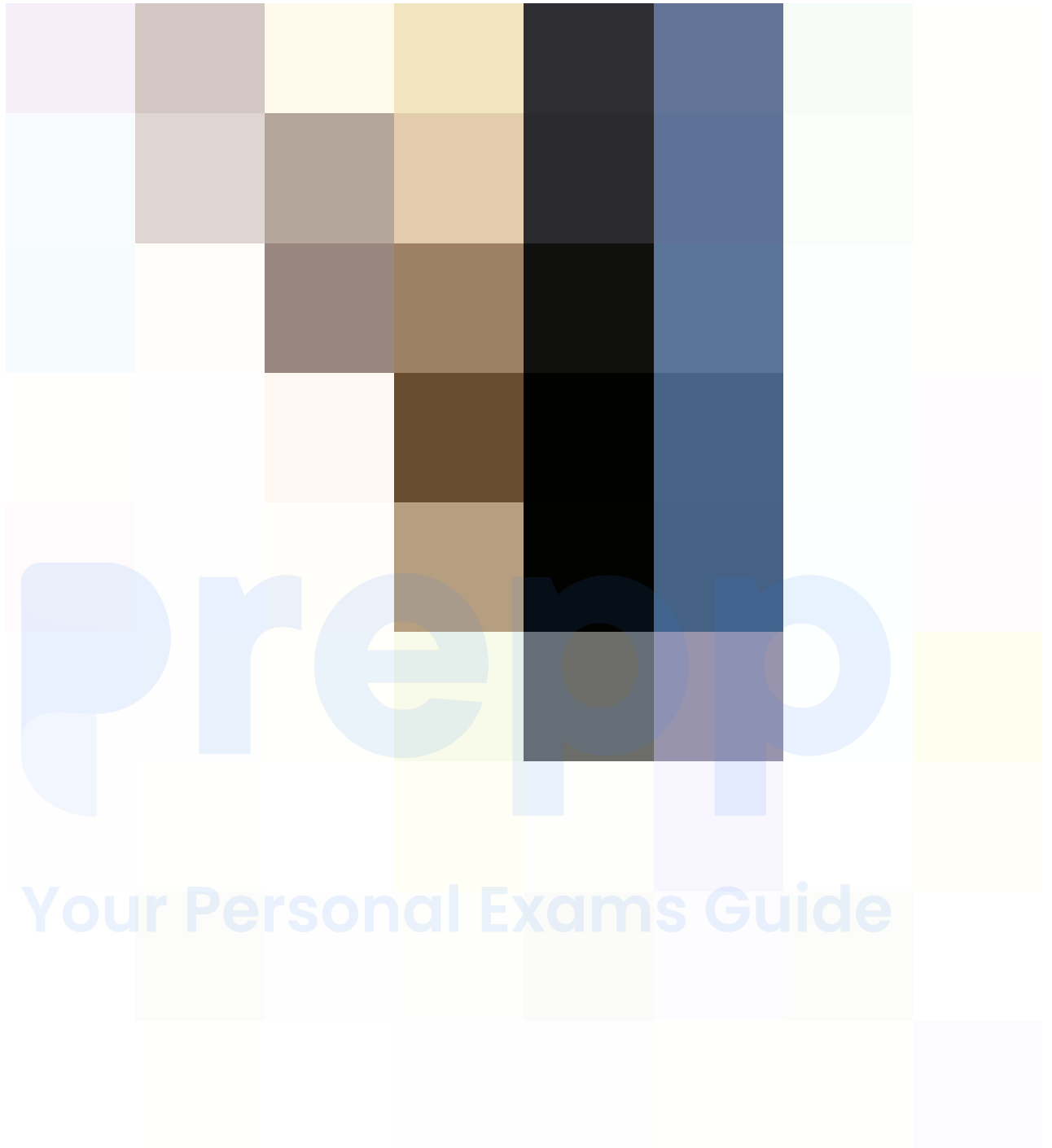
" ⇒ Option 3 is eliminated..

- The word "HOT4SP9OT " the third letter is "T". So, the mirror image should be "T" instead of "

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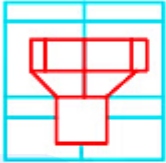

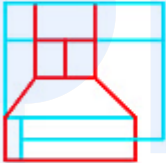



"⇒ Option 4 is eliminated.

Hence, the correct answer is "Option - (1)".

17. Answer: a

Explanation:

The image embedded in given figure is as shown below :

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

∴ Here, Option figure -(1) is embedded in given figure.

Hence, the correct answer is "Option-(1)".

18. Answer: b

Explanation:

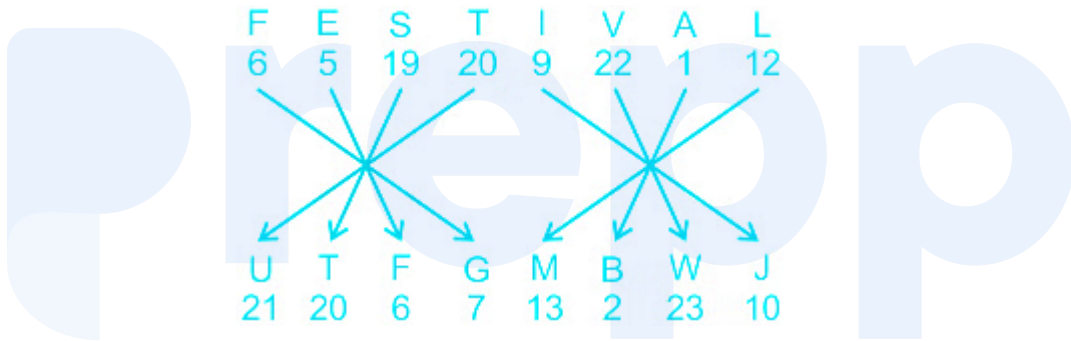
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Logic :

- Immediate next letter of the first four letters is written diagonally.
- Immediate next letter of the last four letters is written diagonally.

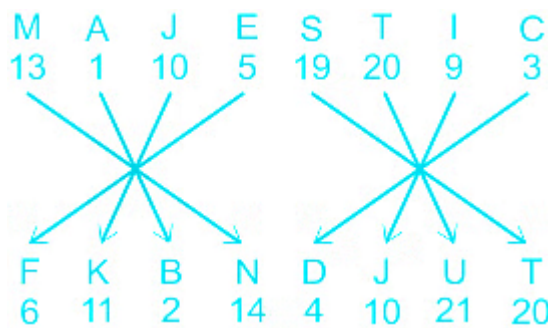
So,

- FESTIVAL is written as:



Similarly,

- MAJESTIC is written as :



Hence, "FKBNDJUT" is the correct answer.

19. Answer: d

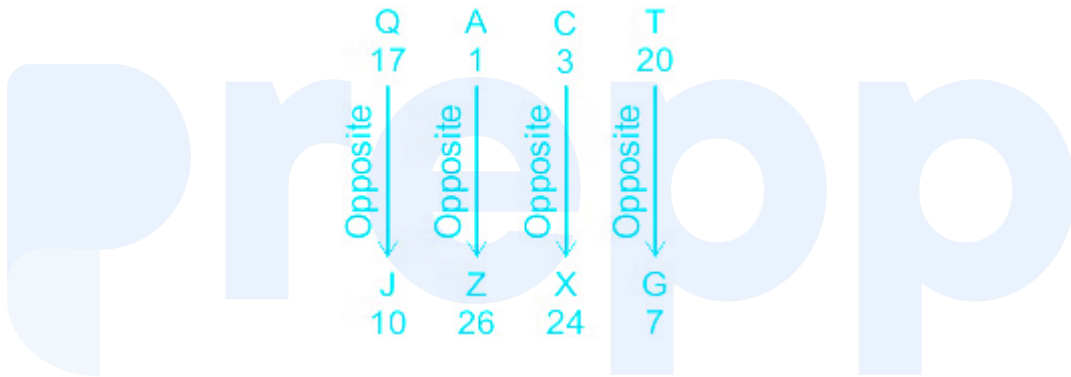
Explanation:

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

Logic : Immediate opposite letter according to English alphabetic series.

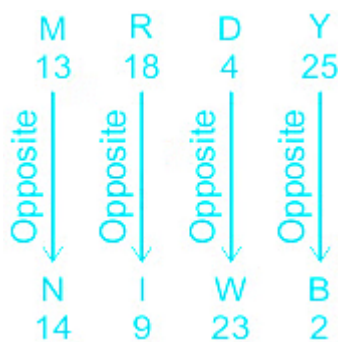
So,

- QZCT : JAXG



Similarly,

- MRDY : ?



Hence, "NIWB" is the correct answer.

20. Answer: b

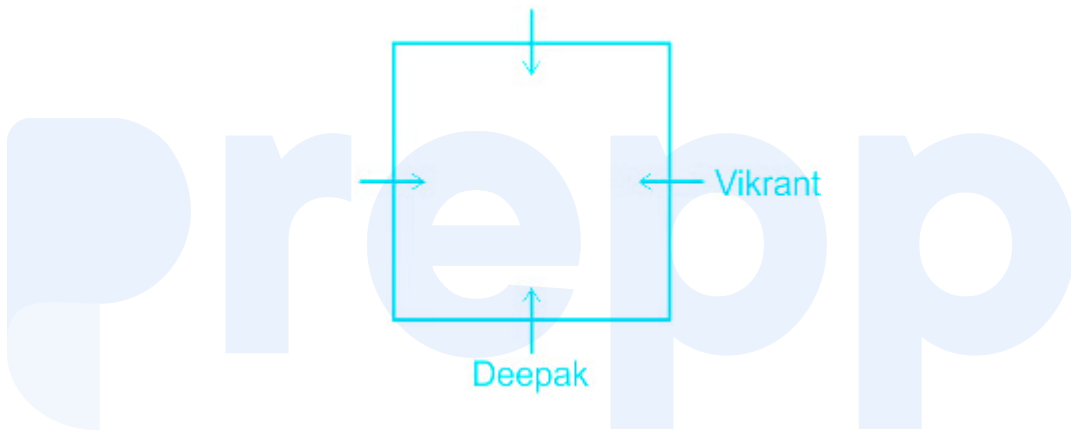
Explanation:

Given :

- Four – persons, Deepak, Gurkiran, Shahid and Vikrant
- They are sitting around a square shaped table facing the centre.
- They are sitting in such a way that each person is at the middle of each side of the table.

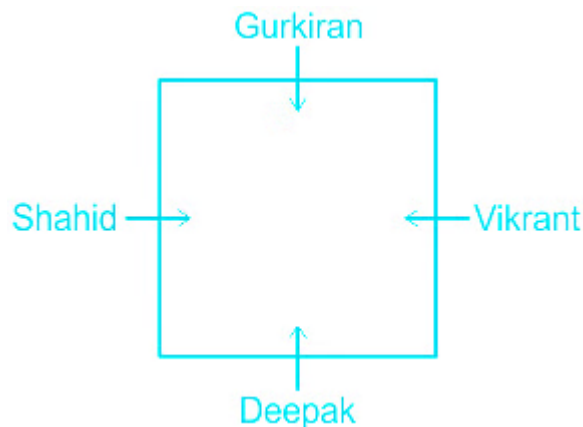
Explanation :

1) Vikrant is to the immediate right of Deepak.



2) Shahid is facing Vikrant.

As after positioning shahid only one position is left which will be occupied by the only person left i.e Gurkiran.



Thus, according to the final arrangement Vikrant is sitting immediate left of Gurkiran.

Hence, "Vikrant "is the correct answer.

21. Answer: c

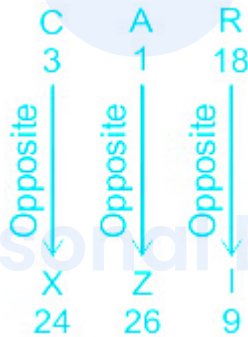
Explanation:

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

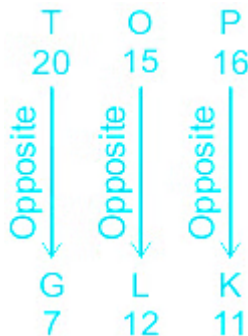
Logic : Opposite letter is written according to English alphabetic series.

So,

- CAR is written as :

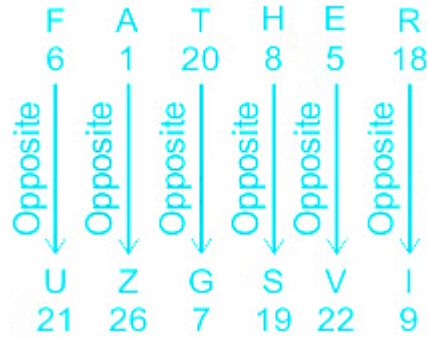


- TOP is written as :



Similarly,

- FATHER is written as :



Hence, "UZGSVI" is the correct answer.

22. 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

Logic : **Your Personal Exams Guide**

- (2) is subtracted from each first letter's position value.
- (2) is added to each second letter's position value.

So,

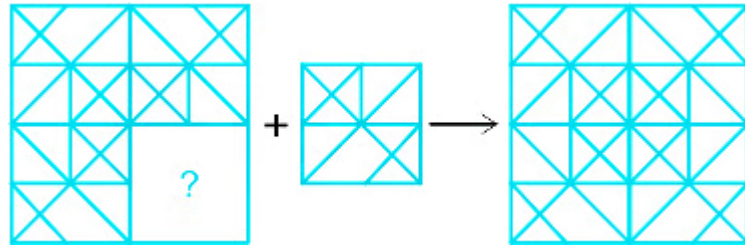


Hence, "ZS" is the correct answer.

23. Answer: a

Explanation:

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



Hence, "Option - (1)" is the correct answer.

24. Answer: a

Explanation:

According to the sequence in the dictionary.

3. Morpheus

5. Morris

4. Mortified

2. Mortise

1. Mosaic

Hence, the correct answer is "3, 5, 4, 2, 1"

25. Answer: d

Explanation:

The logic followed here is:

- **Mount Everest** is one the names of the highest **mountains** in the world.

Similarly,

- **Nobel** is one the **prize** considered to be the most prestigious in the world.

★ Additional Information

1. Fame – the state of being widely known or recognized
 2. Duty – a moral or legal obligation
 3. Book – a set of sheets of paper bound together.
 4. **Prize** – a reward for victory or superiority. Like Nobel prizes, Booker prize etc.
-

26. Answer: b

Explanation:

The correct answer is Adar Poonawalla.

★ Key Points

- **Adar Poonawalla** does NOT feature in Forbes 'World's Billionaires List', 2021.
- He is chief Executive Officer (CEO) of the Serum Institute of India (SII)
- A private family-owned business founded in 1966 by his father Dr. Cyrus Poonawalla.
- SII is the world's largest vaccine manufacturer by the number of doses produced and sold a year (1.5bn).
- In 2017, he was appointed by the Indian Prime Minister as Brand Ambassador for Swachh Bharat, a country-wide campaign initiated by the Government of India to improve waste management.

★ Additional Information

- Forbes' world's billionaires list for 2021 includes a record-breaking 2,755 billionaires .
 - Jeff Bezos is the world's richest person for the fourth year running, worth \$177 billion , up by \$64 billion from 2020 as a result of surging Amazon shares.
 - Elon Musk rocketed into the No. 2 spot with a \$151 billion fortune , up by \$126.4 billion in 2020 when he ranked No. 31 .
-

27. Answer: b

Explanation:

The correct answer is Barack Obama.

★ Key Points

- 'A Promised Land' is a book by **Barack Obama**.
- A Promised Land is a memoir by Barack Obama, a former President of the United States from 2009 to 2017 and the first African-American president of the United States.
- It was published on 17 November 2020, by Crown Publishing Group and is the first of a planned two-volume series.

★ Additional Information

- Barack Obama was the 44th president of the United States.
 - He the first African American to become the president of the United States.
 - Barack Obama was honoured with the 2009 Nobel Peace Prize for his extraordinary efforts to strengthen International Diplomacy.

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28. Answer: c

Explanation:

The correct answer is Oordhwaka.

★ Key Points

- There are three styles of temple architecture in India:
 - Nagara Style (North India)
 - Dravida Style (South India)
 - Vasara style (Mix of Nagara and Dravida style)

- Oordhwaka drums are placed vertically before the musician and sound is produced by striking them with sticks or fingers.
- Hence Oordhwaka is NOT associated with the temple architecture in India.

★ Additional Information

- Nagara Style:
 - Built on a stone platform with steps leading up to it.
 - Have a tower or Shikhara.
 - Have Grabhagriha (A place for the idols of god and goddess).
 - Examples: Kandariya Mahadeo temple at Khajuraho, Lakshamana temple.
- Dravida Style:
 - Generally enclosed within a compounded wall.
 - The entrance gateway is known as Gopuram.
 - The shape of Temple tower known as Vimana (similar to Shikhara in Nagara style).
 - Large water tanks are common in the temple complex.
 - Examples: Brahadeeshwara temple, Rajarajeswara temple.
- Vasara style:
 - This style of temple architecture is a mix of Nagara and Dravid style.
 - Examples: Dodda Basappa Temple, Hoysala Temple.

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29. Answer: d

Explanation:

The correct answer is Agriculture.

★ Key Points

- **Agriculture** was the only sector in the Indian economy that showed an increased GVA (Gross Value Added) of 3.4% in the first quarter of 2020.
- Agriculture is set to cushion the shock of the COVID-19 pandemic on the Indian economy in 2020-21 with a growth of **3.4 per cent** resulting in an increase in its share in GDP to **19.9 per cent in 2020-21** from **17.8 per cent in 2019-20**.

- The services sector accounts for **53.89% of total India's GVA of 179.15 lakh crore Indian rupees.**
- With **GVA of Rs. 46.44 lakh crore**, the Industry sector **contributes 25.92%.**
- While Agriculture and **allied sector share 20.19%.**

★ Additional Information

- Gross value added (GVA) is defined as output (at basic prices) minus intermediate consumption (at purchaser prices)
- It is the balancing item of the national accounts production account. GVA can be broken down by industry and institutional sector.
- Gross value added (GVA) is an economic productivity metric that measures the contribution of a corporate subsidiary, company, or municipality to an economy, producer, sector, or region
- Gross value added measures profits and wages of London-based businesses and London's employees.
 - $GVA = GDP + \text{subsidies on products} - \text{taxes on products}$.

30. **Answer: d**

Explanation:

The correct answer is 1973.

★ Important Points

- Islands of Laccadive, Minicoy, and Amindivi changed into **Union Territory of Lakshadweep by an Act 1973 of Parliament.**
- Lakshadweep is the smallest Union Territory of India.
- The old name of Lakshadweep was Laccadive.
- Lakshadweep got the official name on 1st November 1973.
 - Capital - Kavaratti
 - Lieutenant Governor - Praful Patel (Sept 2022)
- The former capital of Lakshadweep is Kozhikode and the capital was shifted to Kavaratti in 1964.
- Lakshadweep is the most literate Union Territory.

- Lakshadweep comes under the jurisdiction of the Kerala High Court.
-

31. Answer: a

Explanation:

The correct answer is ecosystem.

★ Key Points

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

★ Additional Information

- An ecosystem is the basic ecological unit in which living organisms interact among themselves and with their surrounding physical environment.
 - The entire biosphere is referred to as a global ecosystem.
 - Natural ecosystem - Forest, Grassland, Desert
 - Artificial ecosystem - Crop field, Aquarium
-

32. Answer: b

Explanation:

The correct answer is Bases are soapy to touch, bitter to taste and corrosive.

★ Key Points

- Properties of Bases
 - Some properties, like a bitter taste, are owned by all bases .
 - The bases **feel slippery, too.**
 - Furthermore, when immersed in water, bases conduct electricity because they consist of charged particles in the solution.
 - They are found to have a **soapy texture** when touched.
 - These substances release hydroxide ions (OH^- ions) when dissolved in water.
 - In their aqueous solutions, bases act as good conductors of electricity.
 - The pH values corresponding to bases are always greater than 7.
 - Bases are bitter-tasting substances that have the ability to turn red litmus paper blue.
 - Examples: Sodium hydroxide $[\text{NaOH}]$, milk of magnesia $[\text{Mg}(\text{OH})_2]$, calcium hydroxide $[\text{Ca}(\text{OH})_2]$.

★ Additional Information

- Properties of Acids
 - Acids are corrosive in nature.
 - They are good conductors of electricity.
 - Their pH values are always less than 7.
 - When reacted with metals, these substances produce hydrogen gas.
 - Acids are sour-tasting substances.
 - Examples: Sulfuric acid, Hydrochloric acid, Acetic acid.

33. Answer: b

Explanation:

The correct answer is when the river channel follows the slope of the terrain and with its tributaries resembles the branches of a tree .

★ Key Points

- A dendritic drainage pattern is formed when the river channel follows the slope of the terrain and with its tributaries resembles the branches of a tree.
 - These are by far the most common, develop in areas where the rock (or unconsolidated material) beneath the stream has no particular fabric or structure and can be eroded equally easily in all directions.
 - The drainage pattern resembling the branches of a tree is known as “dendritic” the examples of which are the rivers of northern plain.

★ Additional Information

- Important Drainage Patterns
- Radial Patterns
 - When the rivers originate from a hill and flow in all directions, the drainage pattern is known as ‘radial’.
 - Volcanoes usually display excellent radial drainage.
 - The rivers originating from the Amarkantak range present a good example of it.
- Centripetal Patterns
 - When the rivers discharge their waters from all directions in a lake or depression, the pattern is known as ‘centripetal’.
- Trellis drainage
 - When the primary tributaries of rivers flow parallel to each other and secondary tributaries join them at right angles, the pattern is known as ‘trellis’.
 - These patterns typically develop where sedimentary rocks have been folded or tilted and then eroded to varying degrees depending on their strength.
 - The Rocky Mountains of B.C. and Alberta are a good example of this, and many of the drainage systems within the Rockies have trellis patterns.

34. Answer: a

Explanation:

The correct answer is The UAE.

★ Key Points

- ICC headquarter is located in Dubai , United Arab Emirates.
- The ICC is the global governing body for cricket .
- Representing 104 members , the ICC governs and administrates the game and works with our members to grow the sport.
- The ICC is also responsible for the staging of all ICC Events.
- The ICC presides over the ICC Code of Conduct, playing conditions, the Decision Review System , and other ICC regulations.
- Through the Anti-Corruption Unit, it coordinates action against corruption and match-fixing.
- It was established in 1909 by the representatives of England , Australia , and South Africa as Imperial Cricket Conference.

★ Additional Information

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International Organisation	Headquarters
United Nations Organisation (UNO) United Nations Children's Emergency Fund (UNICEF) United Nations Population Fund (UNFPA) United Nations Security Council (UNSC)	New York, USA
International Monetary Fund (IMF) World Bank (WB)	Washington DC, USA
World Food Programme (WFP) Food and Agricultural Organisation (FAO)	Rome, Italy
United Nations Habitat (UNH)	Nairobi, Kenya
United Nations Conference on Trade and Development (UNCTAD) World Health Organisation (WHO) International Labour Organisation (ILO) International Committee of the Red Cross World Trade Organisation (WTO) World Meteorological Organisation (WMO) World Intellectual Property Organisation (WIPO)	Geneva, Switzerland

International Organisation for Standardization United Nations Acquired Immuno Deficiency Syndrome (UNAIDS)	
International Court of Justice (ICJ) Organization for the Prohibition of Chemical Weapons	The Hague, Netherlands
United Nations University (UNU)	Tokyo, Japan
United Nations Educational Scientific and Cultural Organisation (UNESCO) Organization for Economic Cooperation and Development (OECD) International Council on Monuments and Sites (ICOMOS)	Paris, France
United Nations Industrial Development Organisation (UNIDO) International Atomic Energy Agency (IAEA) Organization of Petroleum Exporting Countries (OPEC)	Vienna, Austria
International Maritime Organisation (IMO) Commonwealth of Nations Amnesty International	London, United Kingdom

35. Answer: b

Explanation:

The correct answer is 10.

★ Key Points

- RigVeda:
 - The oldest religious text in the world.
 - It is the collection of hymns, composed around 1700 BC, contains 1,028 hymns, and is divided into 10 mandalas.
 - The third mandala contains the Gayatri Mantra.
 - Saraswati is the deity river in Rigveda.
 - 8th Mandala is ascribed to Kanvas and Angiras.
 - 9th Mandala is the compilation of soma hymns.
 - The 10th Mandala of Rigveda contains the Purushasukta hymn which tells about the origin of the caste system.
 - The Rigvedic society comprised four varnas, namely Brahmana, Kshatriya, Vaishya, and Shudra.

★ Additional Information

- Samaveda
 - There are 1549 verses (except 75 verses, all have been taken from Rigveda)
 - There are two Upanishads embedded in Samaveda – Chandogya Upanishad and Kena Upanishad
 - The Samaveda is considered the root of Indian classical music and dance
 - It is considered as the storehouse of the melodious chants
 - Though it has lesser verses than Rigveda, however, its texts are larger
 - There are three recensions of the text of the Samaveda – Kauthuma, Raṇayaniya and Jaimaniya
- Yajurveda
 - Stands to mean 'Worship Knowledge', Yajurveda dates back to 1100–800 BCE; corresponding with Samaveda.
 - It compiles ritual-offering mantras/chants.

- These chants were offered by the priest alongside a person who used to perform a ritual (in most cases yajna fire).
 - Atharvaveda
 - Stands to mean a tatpurusha compound of Atharvan, an ancient sage, and knowledge (atharvan+knowledge), it dates back to 1000-800 BCE.
-

36. Answer: d

Explanation:

The correct answer is 50.

★ Key Points

- Kharaj was a tax on agricultural land under the Delhi sultanate, and its range was one-third to half of the produce.
- The 'kharaj' tax imposed by Alauddin Khalji was equal to about **50%** of a peasant's produce.
- Kharaj is mainly imposed on non-Muslims and converts them to Islam in recently conquered territories of Islam.
- Under the law of Islam, only native Muslims or those who converted to Islam were allowed to own land.
- Thus, the non-Muslim cultivators were encouraged to adopt Islam, so that they could sustain their agricultural holdings.

★ Additional Information

- There are different types of tax imposed during the Delhi sultanate:
 - Zakat was a tax on property realized by the Muslims.
 - Kham was one-fifth of the booty captured, a tax on mines, treasure troves, and a share on war booty.
 - Jaziya levied on the non-Muslim subjects, particularly the Hindus. Women and children were, however, exempted from the taxes.
-

37. Answer: a

Explanation:

The correct answer is Japanese.

★ Key Points

- The SpaceX Crew Dragon spacecraft launched into orbit in November 2020 had **three American and one Japanese astronaut onboard**.
- SpaceX's Crew Dragon capsule carrying:
 - NASA astronauts Shane Kimbrough and Megan McArthur,
 - Japanese astronaut Akihiko Hoshide
 - French astronaut Thomas Pesquet
- SpaceX launched the Crew-2 mission for NASA and carried the four astronauts to the International Space Station on 23rd April 2021.
- A SpaceX Falcon 9 rocket carried the four astronauts to space in the company's Crew Dragon spacecraft named "Endeavour."

★ Additional Information

- SpaceX (Space Exploration Technologies Corporation) is a privately-owned aerospace manufacturer founded by Elon Musk.
- Elon Musk is also the current CEO (Chief Executive Officer) and CTO (Chief Technology Officer) of the organization.
- It was founded in the year 2002.
- It offers products like launch vehicles, rocket engines, spacecraft, etc.
- It is headquartered in Hawthorne, California, US.

38. Answer: b

Explanation:

The correct answer is A bilateral maritime exercise between India and Singapore.

★ Key Points

- From 23 to 25 November 2020 in the Andaman Sea , the 27th edition of India-Singapore Bilateral Maritime Exercise SIMBEX-20 was organized.
- The host for the 2020 edition of SIMBEX is the Indian Navy (IN).
- The SIMBEX series of exercises between the Indian Navy and the Navy of the Republic of Singapore (RSN) has been conducted annually since 1994.
- The goal of the exercise is to enhance mutual interoperability and to absorb best practices from each other.

★ Additional Information

- List of Important Military Exercises:

Participating Countries	Exercise(s)
Australia	AUSTRA HIND, AUSINDEX, PITCH BLACK
Bangladesh	SAMPRITI, IN-BN CORPAT, IN-BN BILAT, IN-BN SF, TABLE TOP, SAMVEDNA
Brazil and South Africa	IBSAMAR
China	HAND IN HAND
Egypt	CYCLONE
France	SHAKTI, VARUNA, GARUDA
Indonesia	GARUDA SHAKTI, IND-INDO CORPAT, IND-INDO BILAT
Israel	BLUE FLAG
Japan	DHARMA GUARDIAN, JIMEX

39. Answer: c

Explanation:

The correct answer is Cripps.

★ Key Points

- **Cripps mission** was initiated by the British Government to India to secure full Indian cooperation for their efforts in **World War II**.
- Cripps Mission came to India in 1942 .
- Stafford Cripps was a labour minister in Winston Churchill's coalition government in Britain.
- The Cripps Mission came to India from 22 March to 11 April 1942.
- Its aim was to obtain Indian cooperation for the British war in the 2nd World war.

★ Additional Information

- Proposals of Cripps Mission:
 - Setting up of an **Indian dominion**.
 - A constituent Assembly would be formed to frame a new constitution for the country.
 - India's defence would be controlled by the British until this new constitution came into force.
 - The transfer of power and the rights of minorities would be safeguarded by negotiations between the Constituent Assembly and the British government.

40. Answer: a

Explanation:

The correct answer is December,1885.

★ Key Points

- Indian National Congress was formed in **1885** by a member of the Imperial Civil Service, A.O. Hume did it.
 - The first meeting of the Indian National Congress was held on **28 December 1885**.
 - The first session was held in a hall of Gokuldas Tejpal Sanskrit College in Bombay.
 - Womesh Chandra Banerjee was the first President of the Indian National Congress. He was an Indian barrister.
 - In the first session, 39 out of 72 were lawyers and the trend continued i.e. more than a third of the representatives were from legal backgrounds. Hence option 3 is correct.
 - The first session of the Congress was proposed in Poona, but due to the outbreak of plague in Poona, the venue was shifted to Bombay.

★ Additional Information

Important INC Sessions

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Year	President	Venue
1885	W C Banerjee	Bombay
1904	Henry Cotton	Bombay
1906	Dadabhai Naoroji	Calcutta
1907	Rash Behari Ghosh	Surat
1909	Madan Mohan Malaviya	Lahore
1911	Bishan Narayan Dar	Calcutta
1916	Ambica Charan Mazumdar	Lucknow
1917	Annie Besant	Calcutta
1924	Gandhiji	Belgaum
1925	Sarojini Naidu	Kanpur
1929	Jawaharlal Nehru	Lahore

Year	President	Venue
1938	Subhas Chandra Bose	Haripura

41. Answer: b

Explanation:

The correct answer is Fugitive Economic Offenders (FEO) Act, 2018.

★ Key Points

- **Fugitive Economic Offenders (FEO) Act, 2018** allows persecution of a person who being abroad refuses to return to India to face criminal prosecution.
- A person is to be declared as an FEO under the Fugitive Economic Offenders Act, 2018 if:
- an arrest warrant has been issued against him for any specified offences where the value involved is over Rs. 100 crore , and
- he has left the country and refuses to return to face prosecution

★ Additional Information

- To declare a person an FEO, an application will be filed in a Special Court (designated under the Prevention of Money-Laundering Act, 2002) containing details of the properties to be confiscated. The Special Court will require the person to appear at a specified place at least six weeks from the issue of notice. Proceedings will be terminated if the person appears .
- Authorities can provisionally attach properties of an accused, while the application is pending before the Special Court. Upon declaration as an FEO, the properties of a person may be confiscated and vested in the central government. Further, the FEO or any company associated with him may be barred from filing or defending civil claims.

42. Answer: c

Explanation:

The correct answer is the Governor.

★ Important Points

- The Advocate-General holds office during the pleasure of **the Governor**.
- The "Advocate General" is a constitutional post under the state government of India.
- Article 165 of the Indian constitution defines the " Advocate-General " of State.
 - He is appointed by the Governor of the state.
 - A person is eligible to become the Advocate-General if he/she is qualified to be appointed as a judge of the High court.
 - The Advocate General holds the office during the pleasure of the Governor.
 - There is no fixed tenure of the Advocate General.
 - The advocate general is the highest law officer of the state.

43. Answer: a

Explanation:

The correct answer is Employment.

★ Key Points

- Economic Survey 2020-21 constructs a Bare Necessities Index (BNI) at the rural, urban and all India level.
- The BNI summarises 26 indicators on five dimensions:
 - **water, sanitation, housing, micro-environment, and other facilities.**
- **Hence Employment is not one of them.**
- The **Bare Necessities Index** is an attempt to quantify this approach to economic development using data from the National Statistical Office.

★ Additional Information

- According to Economic Survey 2020-21, real the growth rate for the financial year 2022 is assumed as based on IMF estimates of 11.5 Percent.

- In 2020–2021, the survey predicts nominal GDP growth of 15.4% and real GDP growth of 11%. This is consistent with the International Monetary Fund's (IMF) prediction of real GDP growth of 11.5% in 2021–2022.
- The economy of India will shrink by **7.7 per cent in FY2020–2021** .
- The real GDP of India is expected to expand by 11%, and the nominal GDP would increase by 15.4%, which would be the fastest growth rate since the country's independence in FY21–22. The GDP will be worth 149.20 lakh crores of rupees in absolute terms in 2021–22.

44. Answer: d

Explanation:

The correct answer is Paika.

★ Key Points

- **Paika** is performed holding a sword in one hand and a shield in the other.
- Its a martial folk dance where performer is in battle formation with spears and sheild
- Paika is a form of long spear and also the word paika signifies battle.

★ Additional Information

- **Santhali dance** is usually performed by each the boys and girls of the Santhal tribe.
 - It's terribly almost like the bamboo folks dance of Assam and Mizoram.
- **Jadur** of Bihar is a folk dance particularly popular among the tribal people of South Bihar called the Oraons.
- **The Karma dance** form from Mandla district of Madhya Pradesh.

45. Answer: b

Explanation:

The correct answer is **Five**.

★ **Key Points**

- As of 2015, **Five** states were the focus of the World Bank funded National Ganga River Basin Projects (NGRBP) of National Mission for Clean Ganga.
- The **\$1 billion National Ganga River Basin Project** is helping the National Ganga River Basin Authority (NGRBA) build institutional capacity for rejuvenating the river.
- It is also financing key infrastructure investments in the **five mainstem states** –
 - **Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal.**
- The world bank and the National Mission of Clean Ganga (NMCG) discussed the components of the second national Ganga river basin Project which comprises spillovers of Ganga-I and take up new projects on tributaries like Yamuna and Kali.

★ **Additional Information**

- **About Namami Gange Programme:**
 - The Namami Gange Programme is an integrated conservation mission, approved by Union Government in 2014 with a budget outlay of Rs 20000 crore.
 - On 12th August 2011, National Mission for Ganga (NMCG) was registered as a society under the Societies Registration Act 1860.
 - The Vision of the program is to restore the wholesomeness of the Ganga River by ensuring 'Aviral Dhara' and 'Nirmal Dhara' and maintaining the geological and ecological integrity of the river.
- **About the World Bank** : (Sept 2022)
 - Headquarters : Washington D.C, United States
 - President : David Malpass

46. **Answer: c**

Explanation:

The correct answer is **fourth**.

★ Key Points

- Nitish Kumar has sworn in as the CM of Bihar for the 7th time in two decades and for the 4th time consecutively since 2015.
- Governor of the state, Phagu Singh Chauhan administered the oath upon Nitish Kumar for the office of Chief Minister.
- An alliance of National Democratic Alliance and Janata Dal-United has formed the government in Bihar with a hold on 125 seats out of a total of 242 seats.

★ Additional Information

Nitish Kumar as the CM of Bihar :

- He became the CM of Bihar for the first time in 2000 but resigned within a week.
- He then assumed the office in 2005 and again in the 2010 term after the assembly polls, but stepped down in 2014 and was succeeded by Jitan Ram Manjhi .
- In February 2015, he was back to the office after Jitan Ram Manjhi was expelled out.
- In 2015 November, after the assembly elections JDU-UPA alliance's victory, He became the CM of Bihar.
- He stepped down again in 2017 by breaking up with UPA and very soon returned to the office after his party allied with NDA.
- On November 16, 2020, he has sworn in as the CM of Bihar for the 7th time.

47. Answer: c

Explanation:

The correct answer is basil.

★ Important Points

- **Basil or Tulsi** is used in the treatment of cough and cold.

- Tulsi is a **medicinal plant and has anti-cancerous metabolites** .
- An Indian-American scientist **Chandrakanth Emani** along with his team is genetically engineering tulsi or basil to raise its pharmaceutical value.
- They have genetically engineered tulsi to produce a compound in tulsi that has a great pharmaceutical value that can control breast cancer.
- The name of the component is **Eugenol** .

★ Additional Information

- **Medicinal plants** and herbs like **turmeric, ginger, basil leaves, mint and cinnamon** are commonly used in Indian dishes and they offer several health benefits.
- Cold and flu, relieve stress, better digestion, strong immune system and the list is simply endless.

48. **Answer: c**

Explanation:

The correct Answer is 108.

★ Key Points

- FIFA is the highest governing body of International football with its headquarters in Zurich, Switzerland.
- India retains the 108 th slot in the current FIFA World Rankings.
- India was ranked best in the rankings in the year 1996 when it was placed at 94 th.
- Belgium is the number one ranked team in the world followed by France and Germany , in the latest FIFA Rankings in April 2020.

★ Additional Information

- FIFA is an international governing body of association football, beach football and futsal.

- It was founded in **1904** to oversee international competition among the national associations of **Belgium, Denmark, France, Germany, the Netherlands, Spain, Sweden and Switzerland**.
 - The current President of FIFA is Gianni Infantino.
 - It was founded in the year 1904 in France.
-

49. Answer: a

Explanation:

The correct answer is The US.

★ Key Points

- **The US** emerged as the second-biggest source of foreign direct investment (FDI) into India during April–September 2020, according to data by the Ministry of Commerce and Industry in India.
- **Mauritius** was the largest source of foreign investment in India, followed by the US and the UK, according to the census by the RBI.
- FDI or Foreign Direct Investment is an investment that a parent company makes in a foreign country, therefore it is sector specific .
- It helps in increase in the country's Gross Domestic Product (GDP) .
- FDI is the long term investment in a specific sector, whereby entry and exit is not easy.

★ Additional Information

- Foreign Institutional Investor
 - In FII, the investor invests in the markets of a foreign nation, thus increases capital availability in the market.
 - The FII is also known as hot money as the investors have the liberty to sell it and take it back. But in FDI, this is not possible.
 - FII can enter the stock market easily and also withdraw from it easily . But FDI cannot enter and exit that easily.
-

50. Answer: b

Explanation:

The correct answer is Jio.

★ Key Points

- Board of Control for Cricket in India (BCCI) has announced Reliance Jio as the title sponsor of the Women's T20 Challenge 2020 .
- This is the first time a sponsor is partnering with the BCCI exclusively for the women's counterpart to the IPL.
- The women's T20 challenge is scheduled to run from November 4-9, 2020 in Sharjah .

★ Additional Information

- Women's T20 Challenge -2022
 - Along with the 15th season of the IPL 2022 league, BCCI organized the Women's T20 Challenge in which 4 matches were played between three teams.
 - And the final match was played between Supernovas and the Velocity team, in which Supernovas won the title.
- In the Women's T20 Challenge - Three teams participated.
 - Harmanpreet Kaur was the caption of the Supernovas team.
 - Smriti Mandhana was the caption of the Trailblazer franchise.
 - Deepti Sharma was the caption of the Velocity team.

51. Answer: d

Explanation:

Given:

Six years ago, the ratio of the ages of A and B was 17 : 13

Ratio of their present ages is 5 : 4

Calculation:

Let the age of A & B, 6 years ago be $17x$ & $13x$.

Now,

$$(17x + 6) / (13x + 6) = 5 : 4$$

$$\Rightarrow 68x + 24 = 65x + 30$$

$$\Rightarrow 3x = 6$$

$$\Rightarrow x = 2$$

Ratio of their ages after 4 years from now,

$$(17x + 10) : (13x + 10) = 44 : 36 = \mathbf{11 : 9}$$

52. Answer: c

Explanation:

Given: Your Personal Exams Guide

A shopkeeper bought 200 notebooks at the rate of Rs. 80 for 5.

He sold half of them at the cost price and the remaining notebooks at the rate of Rs. 100 for 5.

Formula used:

$$\text{Profit\%} = \frac{S.P - C.P}{C.P} \times 100$$

Where S.P = Selling Price, C.P = Cost Price

Calculation:

According to the question,

5 notebook cost price = Rs. 80

Total 200 notebooks cost price = $(80/5) \times 200$

⇒ Rs. 3200

Now he sold half of them at cost price

100 notebooks sold at cost price = $(80/5) \times 100$

⇒ 1600

And 100 notebooks sold at rate of Rs. 100 for 5

⇒ $(100/5) \times 100$

⇒ 2000

Total C.P = 3200

Total S.P = 1600 + 2000 = 3600

Profit = S.P - C.P

⇒ 3600 - 3200 = 400

Profit% = $\frac{S.P - C.P}{C.P} \times 100$

⇒ $(400/3200) \times 100$

⇒ 12.5%

∴ The required profit percentage is 12.5%

53. Answer: d

Explanation:

Given:-

$$SP = 66000$$

$$\text{Gain\%} = 10$$

Formula used:-

$$\Rightarrow \% \text{ Gain} = \{(SP - CP) \times 100\} / CP$$

Calculation:-

Let CP be x

$$\Rightarrow 10 = \{(66000 - x) \times 100\} / x$$

$$\Rightarrow 0.1x = 66000 - x$$

$$\Rightarrow 1.1x = 66000$$

$$\Rightarrow x = 60000$$

According to question-

$$SP = 66000 + 600$$

$$SP = 66600$$

$$\Rightarrow \% \text{Gain} = \{(66600 - 60000) \times 100\} / 60000$$

$$\Rightarrow \% \text{Gain} = 660000 / 60000$$

$$\Rightarrow \% \text{Gain} = 11$$

★ Additional Information

$$\Rightarrow \% \text{Loss} = \{(CP - SP) \times 100\} / CP$$

54. Answer: c

Explanation:

Given:

Principal 1 = Rs. 6,400

Amount 1 = Rs. 8,848

Time 1 = $4\frac{1}{2}$ years = $\frac{9}{2}$ years

Principal 2 = Rs. 9,000

Time 2 = $2\frac{2}{5}$ years = $\frac{12}{5}$ years

Formula used:

Simple Interest = $(P \times R \times T) / 100$

Amount = Principal + Simple Interest

Calculation:

Amount 1 = Principal 1 + Simple Interest 1

8848 = 6400 + Simple interest 1

Simple Interest 1 = 2448

Simple Interest = $(P \times R \times T) / 100$

$\Rightarrow 2448 = \{6400 \times R \times \frac{9}{2}\} / 100$

$\Rightarrow R = 17/2 \%$

Now we find the simple interest for given Quantity on same rate

Simple Interest 2 = $(P \times R \times T) / 100$

$\Rightarrow (9000 \times 17/2 \times 12/5) / 100$

$\Rightarrow 1836$

Amount 2 = Principal 2 + Simple Interest 2

$\Rightarrow 9000 + 1836 = 10,836$

∴ The required amount is Rs 10,836.

55. Answer: d

Explanation:

Given:

CP of the cooler = Rs. 5,400

Profit = 25%

Discount = 25%

Formula used:

$$SP = CP \times (100 + P\%) / 100$$

$$MP = SP \times 100 / (100 - D\%)$$

Calculation:

$$SP = 5400 \times (100 + 25) / 100$$

$$\Rightarrow 5400 \times 125 / 100$$

$$\Rightarrow 5400 \times 5/4 = 6750$$

$$\therefore SP = 6750$$

$$\text{Now, } MP = 6750 \times 100 / (100 - 25)$$

$$\Rightarrow 6750 \times 100 / 75$$

$$\Rightarrow 6750 \times 4/3 = 9000$$

∴ The market Price for the room cooler is Rs. 9000.

★ Shortcut Trick

$$MP/CP = (100 + P)/(100 - D)$$

$$\Rightarrow MP/CP = (100 + 25)/(100 - 25) = 125/75$$

$$\Rightarrow MP/CP = 5/3$$

$$\text{Now, } 3x = 5400$$

$$\Rightarrow 5x = 9000$$

\therefore The marked price for the cooler is Rs. 9000.

56. Answer: c

Explanation:

Given:

Solution A contains acid and water in the ratio 3 : 5

Solution B contains acid and water in the ratio 9 : 7

Solution A and B are mixed in the ratio 2 : 3

Calculation:

Solution A total capacity = 3 + 5 = 8 units

Solution B total capacity = 9 + 7 = 16 units

Now we added solutions A and B in 2 : 3

So Firstly we equal the capacity of solutions A and B

Solution A = (3 + 5) × 2 = 16 units

That is equal to Solution B = 16 units

Now Solution A given in 2 ratio

$$\Rightarrow 16 \times 2 = 32 \text{ units}$$

$$\text{Which contains Acid} = \left(\frac{3}{8}\right) \times 32 = 12$$

$$\text{Water} = \left(\frac{5}{8}\right) \times 32 = 20$$

Solution B is given in 3-ratio

$$\Rightarrow 16 \times 3 = 48 \text{ units}$$

$$\text{Which contains Acid} = \left(\frac{9}{16}\right) \times 48 = 27$$

$$\text{Water} = \left(\frac{7}{16}\right) \times 48 = 21$$

In the resulting solution of A and B, we get

$$\text{Acid} = \text{Solution A Acid} + \text{Solution B Acid}$$

$$\Rightarrow 12 + 27 = 39$$

$$\text{Water} = \text{Solution A water} + \text{Solution B Water}$$

$$\Rightarrow 20 + 21 = 41$$

\therefore The ratio of Acid and Water in the Resulting mixture is 39: 41.

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57. **Answer: a**

Explanation:

Given:

$$\text{Rate} = 15\%$$

$$\text{Time} = 5\frac{1}{2} \text{ years}$$

Differences of amount and simple interest are Rs.1755 at the same rate in 10 years

Formula used:

$$SI = PTR/100$$

$$A = P + SI$$

Calculation:

Let the sum be x

$$SI = PTR/100$$

$$SI = (x \times 11/2 \times 15)/100$$

$$A = P + SI$$

$$A = x + (x \times 11/2 \times 15)/100$$

$$\Rightarrow A = 365x/200$$

Again,

$$SI = PTR/100$$

$$SI = (x \times 10 \times 15)/100$$

$$\Rightarrow SI = 150x/100$$

According to the question,

$$\Rightarrow 365x/200 - 150x/100 = 1755$$

$$\Rightarrow 65x/200 = 1755$$

$$\Rightarrow x = 5400$$

\therefore The sum is Rs. 5400

58. Answer: a

Explanation:

Given:

The average of eight is the smallest even natural number.

Formula used:

Average = (Sum of observations)/(Number of observations)

Calculation:

The first 8 even natural numbers = 2, 4, 6, 8, 10, 12, 14, 16

But, The eight smallest even natural numbers which are not divisible by 3.

So, Eight even natural numbers = 2, 4, 8, 10, 14, 16, 20, 22

$$\text{Average} = \frac{(2+4+8+10+14+16+20+22)}{8} = \frac{96}{8} = 12.$$

∴ The average is 12.

59. Answer: d

Explanation:

Given:-

Radius of hemispherical solid = 14 cm

$$\Rightarrow \pi = 22/7$$

Formula used:-

$$\text{Total surface area} = 2\pi r^2 + \pi r^2 = 3\pi r^2$$

Calculation:-

$$\text{Total surface area} = 3 \times (22/7) \times 14^2$$

$$\text{Total surface area} = 3 \times 22 \times 14 \times 2$$

Total surface area = 1848 cm^2

★ Additional Information

1) Volume of Hemisphere = $\frac{2}{3} \times \pi \times r^3$

2) Curved surface area of hemisphere = $2 \pi r^2$

60. Answer: c

Explanation:

Calculation:

$$p + p\% \text{ of } 99 = 99 + 99\% \text{ of } p$$

$$\Rightarrow p + (p \times 99)/100 = 99 + (99 \times p)/100$$

$$\Rightarrow p = 99$$

Now,

$$(p + 51)\% \text{ of } 928 + 72$$

$$\Rightarrow (99 + 51)\% \text{ of } 928 + 72$$

$$\Rightarrow 150\% \text{ of } 928 + 72$$

$$\Rightarrow 1392 + 72$$

$$\Rightarrow 1464$$

61. Answer: a

Explanation:

Given:

$$a : b = 9 : 7$$

$$\Rightarrow (11a - 9b) : (2a + 3b) = ?$$

Calculation:

$$a : b = 9 : 7$$

$$\Rightarrow a/b = 9/7$$

$$\Rightarrow \frac{(11a-9b)}{(2a+3b)} = b(11a/b - 9)/b(2a/b + 3)$$

$$\Rightarrow (11 \times 9/7 - 9)/(2 \times 9/7 + 3)$$

$$\Rightarrow \frac{(11a-9b)}{(2a+3b)} = \frac{36}{39} = \frac{12}{13}$$

$$\therefore \frac{(11a-9b)}{(2a+3b)} = \frac{12}{13}$$

★ **Alternate Method**

$$a : b = 9 : 7$$

$$a = 9, \text{ and } b = 7$$

$$\frac{(11a-9b)}{(2a+3b)}$$

$$\Rightarrow \frac{(11 \times 9 - 9 \times 7)}{(2 \times 9 + 3 \times 7)} = \frac{36}{39} = \frac{12}{13}$$

∴ The correct answer is $\frac{12}{13}$

62. Answer: b

Explanation:

Given:

Selling price in first case = 20,850

Selling price in second case = 21,450

Calculation:

Let price of radio be $100x$ and TV be $100y$

According to question,

$$120x + 115y = 20,850 \quad \text{-----(1)}$$

$$115x + 120y = 21,450 \quad \text{-----(2)}$$

We can write it as,

$$24x + 23y = 4170 \quad \text{---(3)}$$

$$23x + 24y = 4290 \quad \text{----(4)}$$

Multiply Eq (3) by 23 and (4) by 24 & subtract (3) from (4), we get

$$\Rightarrow (552x + 576y) - (552x + 529y) = 102,960 - 95910 = 7050$$

$$\Rightarrow 47y = 7050$$

$$\Rightarrow y = 150$$

$$\Rightarrow 100y = 100 \times 150$$

$$\Rightarrow 15000$$

\therefore The cost price of the TV is 15000

63. Answer: a

Explanation:

Given:

Speed of B in completing a work is 3 times that of A

B completes the work in 28 days

Calculation:

Let the speed of A in completing a work be x

then, speed of B in completing a work be 3x

According to the question,

B completes the work in 28 days

Total work done by B = $28 \times 3x = 84x$

Speed of both A and B = $x + 3x = 4x$

Work done by A and B both = $84x/4x = 21$

\therefore They complete the work in 21 days.

64. Answer: a

Explanation:

Given:

$$\Rightarrow \frac{5}{6} \div \frac{5}{6} \text{ of } \frac{5}{6} \times 1\frac{2}{3} + \frac{3}{4} \div \frac{4}{3} \text{ of } 1\frac{1}{2} - 1\frac{1}{2} - \frac{5}{6} \div \frac{3}{4}$$

Solution:

$$\Rightarrow \frac{5}{6} / \frac{25}{36} \times \frac{5}{3} + \frac{3}{4} / 2 - 3 / 2 - 5 / 6 \times 4 / 3$$

$$\Rightarrow 5 / 6 \times 36 / 25 \times 5 / 3 + 3 / 4 \times 1 / 2 - 3 / 2 - 10 / 9$$

$$\Rightarrow 6 / 5 \times 5 / 3 + 3 / 8 - 3 / 2 - 10 / 9$$

$$\Rightarrow 2 + 3 / 8 - 3 / 2 - 10 / 9$$

$$\Rightarrow - 17 / 72$$

\therefore The Right answer is - 17 / 72

65. Answer: a

Explanation:

Given:

Car 1 speed = 45 km/h

Car 2 speed = 70 km/h

Formula used:

Distance = Relative speed \times Time

Calculation:

When two cars are running towards each other the relative speed will be sum of their speeds

Relative speed = $S_1 + S_2$

$\Rightarrow 45 + 70 = 115$ km/h

Distance between them 12 min before they meet = Relative speed \times Time

$\Rightarrow 115 \times (12/60) = 23$ km

\therefore The required distance is 23 km.

66. Answer: d

Explanation:

Given:

$P_1 = \text{Rs } 16400$

$$P_2 = \text{Rs } 18000$$

$$T_1 = 3 \text{ years}$$

$$T_2 = 4 \text{ years}$$

$$\text{Total SI} = \text{Rs } 10302$$

Formula used:

$$\text{SI} = \frac{PRT}{100}$$

$$R = \frac{(\text{SI} \times 100)}{(PT)}$$

Calculation:

$$\Rightarrow 10302 = \left[\frac{(16400 \times 3R_1)}{100} \right] + \left[\frac{(18000 \times 4R_2)}{100} \right]$$

According to the question,

$$R_1 = R_2 = R$$

$$\Rightarrow 10302 = \left[\frac{(16400 \times 3R)}{100} \right] + \left[\frac{(18000 \times 4R)}{100} \right]$$

$$\Rightarrow 10302 = 492R + 720R$$

$$\Rightarrow 1212R = 10302$$

$$\Rightarrow R = \frac{10302}{1212}$$

$$\therefore R = 8.5\%$$

67. Answer: a

Explanation:

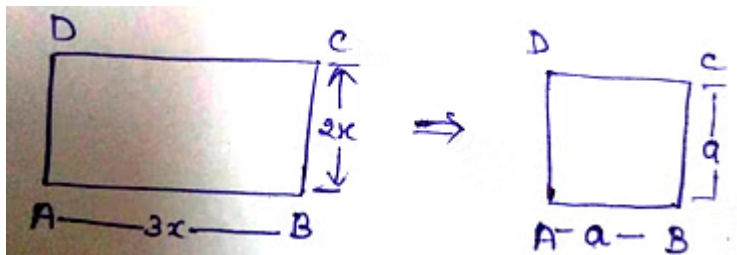
Given:

Ratio of sides of rectangular field = 3 : 2

Perimeter of rectangular field = 600m

Area of square field = 6 × Area of rectangular field

Formula used:



Perimeter of rectangle = $2 \times (L + B)$

Perimeter of square = $4a$

Area of square = a^2

Area of rectangle = $L \times B$

Calculation:

Perimeter of rectangular field = 600m

$$\Rightarrow 2 \times (3x + 2x) = 600$$

$$\Rightarrow 10x = 600$$

$$\Rightarrow x = 60\text{m}$$

\therefore Sides of rectangular field are 180m and 120m

Area of square field = 6 × Area of rectangular field

$$\Rightarrow a^2 = 6 \times (180 \times 120)$$

$$\Rightarrow a^2 = 129600$$

$$\Rightarrow a = 360\text{m}$$

Perimeter of square = 4×360

$\Rightarrow 1440\text{m}$

\therefore The perimeter of square field is **1440m**.

68. Answer: b

Explanation:

Concept used:

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

Calculation:

$$(-5) \text{ of } (-45) \div (-15) - (-3) + 5 \times 1/15$$

$$\Rightarrow 225 \div (-15) - (-3) + 5 \times 1/15$$

$$\Rightarrow -15 + 3 + 5 \times 1/15$$

$$\Rightarrow -15 + 3 + 1/3$$

$$\Rightarrow -12 + 1/3$$

$$\Rightarrow -35/3$$

\therefore The correct answer is $-11\frac{2}{3}$

69. Answer: c

Explanation:

Calculation :

$$25 - 4 \text{ of } (14.4 \div 9) + 16 \times 0.4$$

$$\Rightarrow 25 - 4 \text{ of } 1.6 + 16 \times 0.4$$

$$\Rightarrow 25 - 6.4 + 6.4$$

$$\Rightarrow 25$$

70. Answer: d

Explanation:

Given:

The average of 19 numbers = 46

The average of the first 5 numbers = 49

The average of the next 6 numbers = 54

Concept used:

Average = Sum of elements/No. of elements

Calculation:

Total of 19 numbers = 46×19

$$\Rightarrow 874$$

Total of first 5 numbers = 49×5

⇒ 245

Total of next 6 numbers = 54×6

⇒ 324

So, remaining 8 numbers total = $874 - 245 - 324$

⇒ 305

Average = $305/8$

⇒ 38.1

∴ Required average is 38.1

Note that, 305 is the sum of remain 8 numbers

★ Confusion Points

(∴ $19 - 5 - 6 = 8$)

Therefore to calculate the average, we will divide the 305 by 8.

71. Answer: b

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Explanation:

Given:

Work done by 2 men = Work done by 3 women

Work completed by 10 men and 6 women in 5 days

Formula used:

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

Where,

M = number of men or women

H = hours taken

D = days taken

W = amount of work

Calculation:

Let 4 men and 9 women complete the same work in D days.

$$\Rightarrow 2 M = 3 W$$

$$\Rightarrow M/W = 3/2$$

According to the question,

$$\Rightarrow (10M + 6W) \times 5 = (4M + 9W) \times D$$

$$\Rightarrow (10 \times 3 + 6 \times 2) \times 5$$

$$\Rightarrow 42 \times 5 = 210$$

$$\Rightarrow (4M + 9W) \times D = 210$$

$$\Rightarrow (4 \times 3 + 9 \times 2) \times D = 210$$

$$\Rightarrow 30D = 210$$

$$\Rightarrow D = 7$$

\therefore 4 men and 9 women complete the same work in 7 days.

72. Answer: d

Explanation:

Given:

Length of the train = 320 m

Time = 90 seconds

Formula used:

Speed (v) = Distance / Time

Concept used:

To convert the m/s into km/s we will multiply the number by (18/5).

Calculation:

Length of the platform = 3 × (Length of the train)

⇒ 3 × 320

⇒ 960 m

Total distance = Length of the train + Length of the platform

⇒ 320 + 960

⇒ 1280 m

Speed = 1280/90

⇒ 128/9 m/s

⇒ (128/9) × (18/5) km/h

⇒ 51.2 km/h

73. Answer: c

Explanation:

Calculation:

$$200\% \text{ of } k - (k + 2)\% \text{ of } 50 = k$$

$$\Rightarrow 2k - \frac{(k+2)}{100} \times 50 = k$$

$$\Rightarrow 2k - (k + 2)/2 = k$$

$$\Rightarrow 2k - k/2 - 1 = k$$

$$\Rightarrow 3k/2 - k = 1$$

$$\Rightarrow k/2 = 1$$

$$\Rightarrow k = 2$$

∴ The value of k is 2

74. Answer: d

Explanation:

Given:

$$a = 2 \times 32 \times 5 = 2^6 \times 5$$

$$b = 34 \times 5 \times 7 = 2 \times 17 \times 5 \times 7$$

$$c = 22 \times 3 \times 7 = 2 \times 11 \times 3 \times 7$$

$$\text{So, the LCM of } abc = 2^6 \times 5 \times 17 \times 7 \times 3 \times 11 = 12,56,640$$

75. Answer: b

Explanation:

Given:

Market price of an article = Rs. 480

A shopkeeper earns a profit of Rs. 63.60 after a discount of 18%

Formula used:

$$\text{Selling Price} = \text{Market Price} \times (100 - \text{Discount \%})/100$$

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

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

Calculation:

$$\text{Selling Price} = \text{Market Price} \times (100 - \text{Discount \%})/100$$

$$\Rightarrow 480 \times (100 - 18)/100$$

$$\Rightarrow 480 \times (82/100)$$

$$\Rightarrow \text{Rs } 393\frac{3}{5}$$

Now we calculate Cost price

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

$$\Rightarrow 393\frac{3}{5} - 63\frac{3}{5} = \text{Rs } 330$$

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

$$\Rightarrow (63\frac{3}{5} / 330) \times 100$$

$$\Rightarrow 19\frac{3}{11} \%$$

\therefore The required gain percentage is $19\frac{3}{11} \%$

76. Answer: c

Explanation:

The solution is , 'I was locked out'

★ Key Points

- We give importance to the object of the Active Voice sentence by turning it into a Passive sentence, thus, making it the subject of the sentence.
 - Example - Active Voice: **Ria did this** . 'This' is the object of the sentence.
Passive Voice: **This was done by Ria** . Now, 'This' is the subject of the sentence.
- The correct sentence is, *When I got back / to the flat, / I found that / I had been locked out.*

★ Additional Information

- Some important points about the Active and Passive Voice:
 - In the Active Voice, the subject is the doer and the object is the receiver.
 - Example - **Kiara made the drawing.**
 - In the Passive Voice, the subject is the receiver and the object is the doer.
 - Example - **The drawing was made by Kiara.**

77. Answer: a

Explanation:

The correct answer is **confined** .

★ Key Points

- The most appropriate option to fill in the blank "My grandmother is _____ to the bed." is confined.
- Confined - Restricted of space in area or volume or cramped.
 - *For example: "She fears confined places."*
- My grandmother is confined to the bed.
- An *adjective* is a word naming an attribute of a noun, such as sweet, red, etc.
- Therefore **option 1** is the correct option.

★ Additional Information

- Let's discuss information about other options:

- **Concealed** – Kept secret or hidden.
 - *For example: "I concealed my marks from my parents."*
- **Concerned** – Worried, troubled, or anxious.
 - *For example: "Sam was concerned about his fathers health."*
- **Confirmed** – Firmly established in a particular habit, belief, or way of life and unlikely to change their ways.
 - *For example: "A confirmed bachelor."*

78. Answer: d

Explanation:

The correct answer is **Arrogant**.

★ Key Points

- The INCORRECTLY spelt word is **Arrogant**.
- Here the incorrect word contains "e" instead of "a".
- The correct spelt word is **Arrogant**.
- **Arrogant** – Having or revealing an exaggerated sense of one's own importance or abilities.
 - *For example: "He is arrogant and cheap."*
- The word **Arrogant** is an **adjective**.
- The word **Attention** is a **noun**.
- The word **Immediate** is an **adjective**.
- The word **Appeal** is an **adjective**.
- Therefore **option 4** is the correct option.

★ Additional Information

- Let's discuss information about other options:
 - **Attention** – Notice taken of someone or something or the regarding of someone or something as interesting or important.
 - *For example: "He drew attention to three spelling mistakes."*
 - **Immediate** – Occurring, acting, or accomplished without loss or interval of time : instant, near to or related to the present of or relating to the here

and now : current

- *For example : "The team must take an immediate decision to win the game."*
- Appeal - Make a serious, urgent, or heartfelt request.
 - *For example : "They made an appeal in the court to grant his bail."*

79. Answer: b

Explanation:

The correct answer is **Follow** .

★ Key Points

- The option that can be used as a one-word substitute for " Go or come after a person or thing proceeding ahead" is Follow.
- Follow - Go or come after a person or thing proceeding ahead.
 - **Example:** *"The police **followed** the murder suspect."*

★ Additional Information

- Let's discuss the meaning of the given options:
 - Race - The act of running.
 - Example: *"He ran a 10km race."*
 - Hunt - Pursue and kill a wild animal for sport or food.
 - Example: *The king hunted a deer."*
 - Search - Try to find something by looking or otherwise seeking carefully and thoroughly.
 - Example: *"The CBI searched for the proofs."*

80. Answer: d

Explanation:

The correct answer is **at**.

★ Key Points

- The segment that contains a grammatical error in "She arrived / at / Monday morning / to attend the marriage." is **at**.
- Here the grammatical error is **at**. The correct preposition used should be "**on**".
- The correct sentence formed will be "**She arrived on Monday morning to attend the marriage.**"
- **Prepositions are used to show position of an object or someone.**
- Therefore **option 4** is the correct option.

★ Additional Information

- Let's discuss information about *prepositions*:
 - Prepositions are used *to show position of an object or someone.*
 - The image contains some words which are used as prepositions.

prepp

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○

Prepositions			
aboard	aside from	by means of	in spite of
about	as of	concerning	instead of
above	at	considering	into
according to	atop	despite	in view of
across from	barring	down	like
across	because of	during	near
after	before	except	nearby
against	behind	for	next to
ahead of	below	from	of
along	beneath	in	off
alongside	beside	in addition to	on
along with	besides	in back of	on account of
amid	between	in front of	onto
among	beyond	in place of	on top of
apart from	but	in regard to	opposite
around	by	inside	out
out of	regarding	to	unto
outside	round	together with	up
over	since	toward	upon
owing to	through	under	with
past	throughout	underneath	within
prior to	till	until	without

Source: Forlini, G., et al. (2010). Prentice Hall Grammar and Composition 4.

81. Answer: d

Explanation:

The correct answer is **Tactile** .

★ Key Points

- The option that can be used as a one-word substitute for " *Connected with the sense of touch* " is

- **Tactile** –Of or connected with the sense of touch.
 - *For example : "Vocal and visual signals become less important as tactile signals intensify."*
- Therefore **option 4** is the correct option.

★ Additional Information

- Let's discuss information about other options:
 - Auditory – Relating to the sense of hearing.
 - *For example : "The auditory nerve."*
 - Olfactory – Relating to the sense of smell.
 - *For example : "The olfactory organs."*
 - Visual – Relating to seeing or sight.
 - *For example : "Visually blind person."*

82. Answer: d

Explanation:

The correct answer is are.

★ Key Points

- The most appropriate option that can substitute the underlined word in "*There is two pens in the box.*" is are.
- There ~~are~~ two pens in the box.
- Here in the given sentence there are two pens, i.e. more than one pen is available in the box.
- In the sentence "**is**" should be replaced by "**are**" as *pens is a plural noun*.
- Therefore **option 4** is the correct option.

★ Additional Information

- **Plural noun** – Plural noun is a noun that refers to more than one of something.
 - *For example : "Shells", "Rooftops", etc.*
- **Plural nouns rules for making sentences:**

- *To make regular nouns plural, add -s to the end.*
 - Car= Cars.
 - House = Houses.
- *If singular noun ends with -s, -ss, -ch, -x or -z add -es to the end.*
 - Tax = Taxes.
 - Church = Churches.
- *In some cases , singular noun ending in -s or -z, it is required that you double the -s or -z in order to add the -es to make it plural.*
 - Gas = Gasses.
 - Fez = Fezzes.
- *If the noun ends with -f or -fe, the f is somehow changed to -ve before adding -s to them to form plural form.*
 - Wife = Wives.
 - Roof = Roofs.
- *If a singular noun ends with -y we simply add -s.*
 - Ray = Rays.
- *If a singular noun ends with -o add -es to make it plural some are exceptions to them just add -s.*
 - Potato = Potatoes.
 - Photo = Photos.
- *If a singular noun ends with -us add -i at end.*
 - Cactus = cacti.
- *If a singular noun ends with -is add -es.*
 - Analysis = Analyses.
- *If a singular noun ends with -on add -a.*
 - Phenomenon = Phenomena.
- *Some nouns don't change when they are pluralized.*
 - Sheep = Sheep.
 - Series = Series.

83. Answer: a

Explanation:

The correct answer is **Usual** .

★ Key Points

- The most appropriate synonym of " *Common* " is Usual.
- Usual - Habitually or typically occurring or done or customary.
 - *For example : " She carried out her usual chaos."*
- **Common** - Occurring, found, or done often or prevalent.
 - *For example : "They had common interests in each other."*
- Therefore **option 1** is the correct option.

★ Additional Information

- Let's discuss information about other options :
 - Scarce - Insufficient for the demand.
 - *For example : "The raw supplies were scarce."*
 - Particular - Of, relating to, or being a single person or thing.
 - *For example : " The particular person I had in mind."*
 - Individual - Single or separate.
 - *For example : " The tiny flowers were individually beautiful."*

84. Answer: b

Explanation:

The correct answer is **understand** .

★ Key Points

- The option that is closest in meaning to the underlined idiom/phrase in " *The teacher couldn't make head or tail of the student's answer.* " is understand.
- The teacher couldn't understand of the student's answer.
- **Understand** - Perceive the intended meaning of words, a language, or a speaker.
 - *For example : "He didn't understand a word I said."*
- Therefore **option 2** is a correct option.

★ Additional Information

- Let's discuss information about other options:
 - **Recommend** – Advise or suggest something as a course of action.
 - *For example : "A book I recommended to a friend of mine."*
 - **Overlook** – Fail to notice.
 - *For example : "She seems to have overlooked one important fact."*
 - **Appreciate** – Recognize the full worth of.
 - *For example : "She feels that he does not appreciate her."*

85. Answer: b

Explanation:

The correct answer is **Terminate** .

★ Key Points

- The most appropriate ANTONYM of " *Originate* " is Terminate.
- **Antonym** – The words that give opposite meaning of given word.
 - *For example : Antonym of good is bad.*
- **Originate** – Have a specified beginning.
 - *For example : "The word originated as a marketing term."*
- Terminate – Bring to an end.
 - *For example : "She was advised to terminate the contract."*
- Emerge – Move out of or away from something and become visible.
 - *For example : "He appeared out of no where."*
- Exist – Have objective reality or being.
 - *For example : "There existed no organization to cope with espionage."*
- Continue – Persist in an activity or process.
 - *For example : "She was unable to continue with her job."*
- Therefore **option 2** is the correct option.

★ Additional Information

- Antonym of **Emerge** is **Appear** .

- Antonym of Terminate is **Originate** .
- Antonym of **Exist** is **Die** .
- Antonym of **Continue** is **Stop** .

86. Answer: a

Explanation:

The correct answer is "**take back**"

★ Key Points

- The given sentence is grammatically incorrect.
- Take back is a phrasal verb.
- A phrasal verb combines a verb and an adverb or a verb and a preposition. The mixture has a meaning different from the meaning of the words considered separately.
 - **Example:** *Their car **broke down** two miles out of town.*
- **Take back** : reclaim possession of something.
 - **Example:** *If you don't like the scarf, I can **take it back**.*
- Therefore, the correct answer is **option 1**.

Correct sentence: *She made the shopkeeper take back the damaged headset.*

87. Answer: a

Explanation:

The correct answer is "**the best teacher** "

★ Key Points

- The given sentence is grammatically incorrect.
- In the given sentence, '**one of the best teacher**' should be replaced by "**One of the best teachers**".

- So, the use of 'one of the best teacher' here is incorrect.
- And rest of the sentence follows all the grammatical rules.
- Thus, the correct answer is **option 1**.

88. Answer: a

Explanation:

The correct answer is "congestion"

★ Key Points

- In the given fill-in-the-blank, the most appropriate option is 'congestion.'
- **Congestion:** a situation in which a place is too blocked or crowded, causing difficulties.
 - **Example :** *Cases are being repeatedly delayed because of congestion in the courts.*
- Therefore, as per the points mentioned above, the correct answer is **option 1**.

Correct sentence: *Traffic congestion is a very serious problem in metro cities.*

★ Additional Information

- Let's look at the usage and meaning of the other options.

Words	Meaning	Example
Chain	a series of things of the same type connected in a line, or a series of people standing in a line.	Peace campaigners formed a chain around the military base.
Collection	of a lot of things or people.	There is an Egyptian art collection on display at the museum at the moment.
Gathering	a party or a meeting when many people come together as a group.	There will be a gathering of world leaders in Vienna next month.

89. Answer: c

Explanation:

The correct answer is "Orator"

★ Key Points

- The original meaning refers to someone who is capable of making a very smooth and fluent public speech.
- **Orator:** someone who is good at public speaking.
 - **Example:** *Martin Luther King is one of the most famous orators par excellence.*
- Therefore, as per the points mentioned above, the correct answer is **option 3**.

★ Additional Information

- Let's look at the meanings of the other options.
- **Presenter:** someone who introduces a television or radio show.
- **Lecturer:** someone who teaches at a college or university.
- **Mentor:** a person who gives a younger or less experienced person help and advice over a period of time, especially at work or school.

90. Answer: b

Explanation:

The correct answer is "**entered**"

★ Key Points

- In the given fill-in-the-blank, the most appropriate option is '**entered.**'
- Entered: to come or go into a particular place.
 - **Example** : *The police **entered** the building through the side door.*
- Therefore, as per the points mentioned above, we find that the correct answer is **option 2.**

★ Additional Information

- Let's look at the meaning and examples of the other options.

Words	Meaning	Example
Appeared	to start to be seen or to be present	He suddenly appeared in the doorway.
Intruded	to go into a place or situation in which you are not wanted or not expected to be	Newspaper editors are being urged not to intrude on the grief of the families of missing servicemen.
Arrived	to reach a place	It was dark by the time we arrived at the station.

91. Answer: a

Explanation:

The correct answer is "**Deal**"

★ Key Points

- A **bargain** means something on sale at a lower price than its true value.
 - **Example:** *The airline regularly offers last-minute bookings at **bargain** prices.*
- Marked option **Deal** means a large amount or very much.
 - **Example:** *She used to talk a great **deal** about her childhood in India.*
- Clearly, '**Bargain**' and '**Deal**' are similar meanings.
- Therefore, the correct answer is **option 1**.

★ Additional Information

- Let's look at the usage and meaning of the other options.

Words	Meaning	Example
Gain	to get something that is useful, that gives you an advantage or that is in some way positive, especially over a period of time.	The mayor has gained a lot of support from the teacher's union.
Dispute	an argument, or disagreement	The unions are in dispute with management over pay.
Disagreement	an argument or a situation in which people do not have the same opinion.	We had a disagreement about the fee for the work.

92. Answer: a

Explanation:

The correct answer is "it is to ride"

★ Key Points

- The underlined part in the given sentence is incorrect.
- Here, 'is it to ride' changes the sentence into an interrogative one
- So, the use of 'it is to ride' here is correct.
- And rest of the sentence follows all the grammatical rules.
- Thus, the correct answer is **option 1**.

93. Answer: b

Explanation:

The correct answer is "**Impossible**"

★ Key Points

- The most appropriate meaning of the given idiom is 'impossible'
- **Out of question:** not possible or allowed.
 - **Example:** *Asking my father for money was completely **out of the question**.*
- Therefore, as per the points mentioned above, we find that the correct answer is **option 2**.

★ Additional Information

- Let's look at the usage and meaning of the other options.

Words	Meaning	Example
Wishful	expressive of a wish	She looked at the toys with wishful eyes.
Difficult	hard to deal with	He had a difficult time coping with her death.
Doubtful	lacking a definite option	They were doubtful about the advantages of the new system.

94. Answer: a

Explanation:

The correct answer is "ommitted"

★ Key Points

- In the given options, the incorrectly spelled word is 'ommitted.'
- The correct spelling of the word is 'omitted.'
- **Omitted** : to leave out or leave unmentioned.
 - **Example** : You can *omit* the salt from the recipe.
- Therefore, the correct answer is **option 1**.

★ Additional Information

- Let's look at the usage and meaning of the other options.

Words	Meaning	Example
Committed	having made a pledge or commitment to someone.	We are strongly committed to the fight for equal rights
Remitted	to reduce the period of time that someone must spend in person.	His prison sentence was remitted to two years.
Submitted	to give or offer something for a decision to be made by others.	The developers submitted building plans to the council for approval.

95. Answer: d

Explanation:

The correct answer is "mild"

★ Key Points

- **Severe** means causing very great pain, difficulty, worry, and damage.

- **Example:** *This is a school for children with **severe** learning difficulties.*
- Marked option **Mild** means not violent, severe, or extreme.
 - **Example:** *She can't accept even **mild** criticism of her work.*
- Therefore, the most appropriate antonym of the given word '**severe**' is '**mild**.'

★ Additional Information

- Let's look at the usage and meaning of the other words given in the options.

Words	Meaning	Example
Short	small in length, distance, or height	Her hair is shorter than it used to be.
Sharp	having a thin edge or point that can cut something or make a hole in something.	The point of the pencil isn't sharp enough.
Narrow	having a small distance from one side to the other, especially in comparison with the length.	The little village has very few narrow streets.

96. Answer: b

Explanation:

The correct answer is "**benefits**"

★ Key Points

- In the given passage, the most appropriate option for blank no.1 is '**benefits**.'
- **Benefits:** a helpful or good effect, or something intended to help.
 - **Example:** " *The discovery of oil has brought many **benefits** to the town.*"
- Therefore, as per the points mentioned above, we find that the correct answer is **option 2**.

★ Additional Information

- Let's look at the usage and meaning of the other options.

Words	Meaning	Example
Traits	a particular characteristic that can produce a particular type of behavior.	Arrogance is a very unattractive character trait .
Credits	to do something that makes a person, group, or organization feel proud or receive praise.	She is a credit to her family.
Values	the principles that help you to decide what is right and wrong, and how to act in various situations.	The political platform is based on traditional values associated with the rural South.

97. Answer: a

Explanation:

The correct answer is "build"

★ Key Points

- In the given passage, the most appropriate option for blank no.2 is 'build.'
- Build: to create and develop something over a long period of time.
 - Example: " We want to **build** a better future for our children."
- Therefore, as per the points mentioned above, we find that the correct answer is option 1.

★ Additional Information

- Let's look at the usage and meaning of the other options.

Words	Meaning	Example
Establish	to cause something or someone to be accepted in or familiar with a place, or position.	He established himself as a dependable source of information.
Grow	to increase in size or amount, or to become more advanced or developed.	The plant grows best in the shade.
Expand	to increase something in size, number, or importance.	The air in the balloon expands when heated.

98. Answer: c

Explanation:

The correct answer is "release"

★ Key Points

- In the given passage, the most appropriate option for blank no.3 is 'release.'
- Release: to give freedom or free movement to someone or something.
- ◦ Example: *The surgery **released** him from years of pain.*
- Therefore, as per the points mentioned above, we find that the correct answer is option 3.

★ Additional Information

- Let's look at the usage and meaning of the other options.

Words	Meaning	Example
Clear	easy to understand, hear, read, or see	Our new television has a very clear picture.
Leak	to allow liquid or gas to escape	Oil leaked out of the car.
Realize	to understand a situation, sometimes suddenly.	They didn't realize the danger they were in.

99. Answer: c

Explanation:

The correct answer is "that"

★ Key Points

- In the given passage, the most appropriate option for blank no.4 is 'that.'
- It is a pronoun.
- A pronoun is a word that takes place of a noun.
 - Example: *I closed **that** bank account when I came to London.*
- Therefore, as per the points mentioned above, we find that the correct answer is option 3.

★ Additional Information

- Let's discuss information about pronouns:
 - Types of pronouns :-
 - **Personal pronoun** - The pronoun which are placed as a substitute for people or things are called *personal pronoun* .
 - *For example : "Can you please go to market and buy vegetables."*

- **Possessive pronoun** - The personal pronoun which indicates the possession of something are called *possessive nouns*.
 - *For example : "This skirt is mine."*
- **Reflexive pronoun** - Pronouns like himself, myself, themselves, etc. where the action is being performed on oneself are called *reflexive pronoun*.
 - *For example : "I decorated the home all by myself."*
- **Indefinite pronoun** - When the noun which is to be replaced does not have a fixed name or number, that such noun are replaced by *indefinite pronoun*.
 - *For example : "Everyone has reached the birthday."*
- **Interrogative pronoun** - Pronouns like Who, Where, Which, etc. which tend to ask a question are called *interrogative pronoun*.
 - *For example : "Which flower is this?"*
- **Relative pronoun** - The pronouns which are used to connect a clause or a statement are called *relative pronouns*.
 - *For example : "I watched which I bought was defective."*
- **Demonstrative pronoun** - The pronouns which describe or modify a thing or a person are called *demonstrative pronoun*.
 - *For example : " These flowers are beautiful."*

100. Answer: b

Explanation:

The correct answer is "take up"

★ Key Points

- In the given passage, the most appropriate option for blank no.5 is 'take up.'
- **Take up** is a phrasal verb.
- A **phrasal verb** combines a **verb** and an **adverb** or a verb and a preposition. The mixture has a meaning different from the meaning of the words considered separately.
 - **Example** : Be sure to **put on** a life jacket before getting into the boat .

- **Take up** : to learn or start to do something, especially for pleasure.
 - **Example:** *They **took up** golf when they moved to Florida.*
- Therefore, as per the points mentioned above, we find that the correct answer is option 2.

★ Additional Information

- Let's look at the usage and meaning of the other phrasal verbs given in the options.

Phrasal verbs	Meaning	Example
Take off	to begin to fly.	The plane should take off on time.
Take it out	to remove something from a pocket, or bag.	Henry took out his wallet.
Take after	to look or behave like an older member of your family, especially your mother or father.	Your daughter doesn't take after you at all.

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