

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 (09-Dec-2021) (Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence 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. Select the number from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

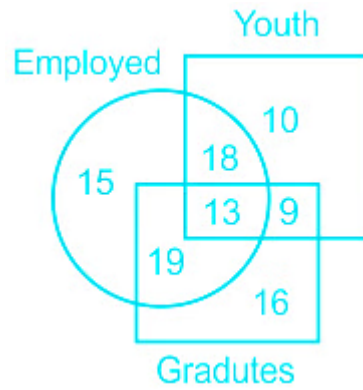
23, 23, 46, 138, 552, ?

- a. 2850
- b. 2520
- c. 2760
- d. 2650

-
2. In a certain code language, PLACARD is coded as 29-3-23, and DORMATS is coded as 37-13-40. How will CONFUSE be coded in that language? (+1, -0.25)

- a. 32-6-45
- b. 35-6-42
- c. 32-7-40
- d. 30-6-44

-
3. Study the given diagram carefully and answer the question that follows. (+1, -0.25)



What is the number of employed youths who are NOT graduates?

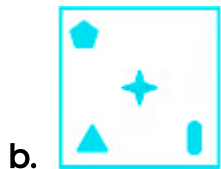
- a. 15
- b. 10
- c. 18
- d. 19

4. Six friends, Priya, Arun, Vansh, Rajat, Bhavna and Manju, are sitting around a circular table, with their backs towards the centre. Vansh is sitting second to the right of Rajat. Arun and Priya are not the neighbours of Rajat. Manju is sitting between Rajat and Arun. (+1, -0.25)

Who is sitting between Vansh and Rajat?

- a. Bhavna
- b. Arun
- c. Manju
- d. Priya

5. Select the figure that will come next in the following figure series. (+1, -0.25)



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

- a. DKR
- b. GAH
- c. VCJ
- d. MTA

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

Brave : Courageous :: Stupid : ?

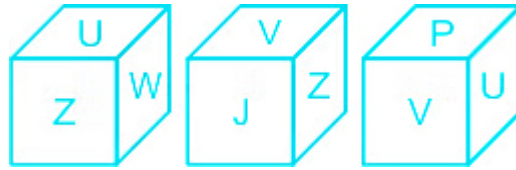
- a. Sensible
- b. Wise
- c. Insane
- d. Timid

8. 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. Target
- 2. Tarnish
- 3. Tarot
- 4. Tamarind
- 5. Tenacity

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

9. Three different positions of the same dice are shown. Select the letter that will be on the face opposite to the one having 'Z'. (+1, -0.25)



- a. P
- b. J
- c. V
- d. U

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

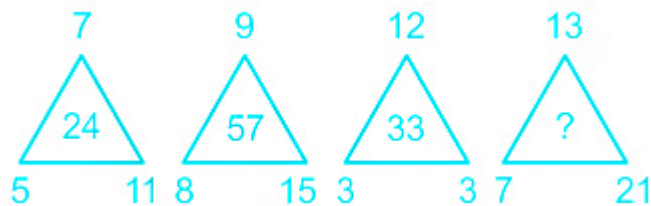
$$85 : 6 :: 97 : ?$$

- a. 4
- b. 10
- c. 7
- d. 12

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



- a. 58

- b. 70
- c. 62
- d. 68

12. In a certain code language, TURTLE is written as RWPVJG. How will OCTOPUS be written in that language? (+1, -0.25)

- a. MEVMRSU
- b. MERQMSU
- c. QARQNWQ
- d. MERQNWQ

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

125	5	3
128	?	7
121	11	2

- a. 6
- b. 4
- c. 2
- d. 8

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

25, 150, 145, 580, 577, ?

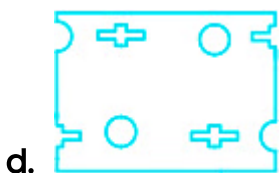
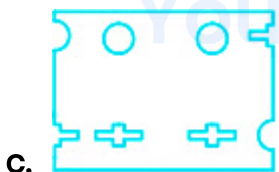
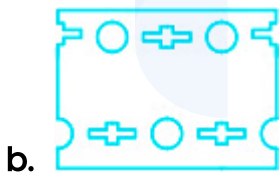
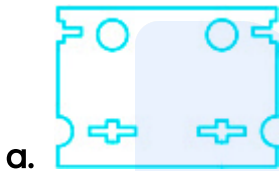
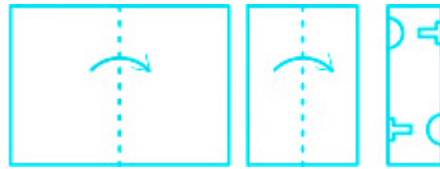
- a. 980
- b. 1154
- c. 1020
- d. 1731

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





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



17. 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.

SBQN : UEVU :: LRFH : ?

- a. NUKO
- b. NVLO
- c. OULO
- d. MVKO

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

DMI, GNL, JOO, ?

- a. NTS
- b. OQR
- c. LPQ
- d. MPR



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

D _ CT _ O _ TDOC _ DO _ T

- a. TDCTC
- b. ODCTC
- c. ODTTC
- d. ODCTD

20. In a certain code language, KINGDOM is written as LKPHFQN. How will TRIVIAL be written in that language? (+1, -0.25)
- a. UTKWKCM
 - b. UTLWKBM
 - c. UTLWKCM
 - d. UTLWLBM

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

54RQXZ

- a. ZXQR43
- b. 24RQXS
- c. 24RQXS
- d. 54RQXS

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22. F, G, H, I and J are sitting in a line facing south while R, S, T, U and V are sitting in a second line parallel to the first line and are facing north. I is second to the right of F, F is opposite to S. H and S are diagonally opposite to each other and at the extreme ends. G is opposite to V who is just next to the left of S. T who is the second to the left of V, is opposite to J. R is at one end of the line. Which of the following pairs is opposite to each other? (+1, -0.25)
- a. HU, IV

b. GS, FR

c. HR, IU

d. JR, IT

23. If '+' represents '×', '-' represents '+', '×' represents '÷' and '÷' represents '-', (+1, -0.25)
then what will be the value of the following expression?

$$47 + 12 \div 288 \times 18$$

a. 470

b. 47.75

c. 454

d. 548

24. Ranjan is the father of Ritesh, who is the maternal grandfather of Sunny. (+1, -0.25)
Dakshita is the only daughter of Reema. Shikha is the mother-in-law of Reema. Ritesh is the only son of Shikha. Pallavi is the sister of Sunny. How is Dakshita related to Sunny?

a. Son

b. Aunt

c. Sister

d. Mother

25. Read the given statements and conclusions carefully. Assuming that the (+1, -0.25)
information given in the statements is true, even if it appears to be at

variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All clothes are flowers.

Some flowers are vegetables.

Conclusions:

I. Some flowers are clothes.

II. Some vegetables are flowers.

- a. Only conclusion II follows
- b. Either of the conclusions follow
- c. Only conclusion I follows
- d. Both conclusions I and II follow

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General Knowledge and General Awareness

26. Which of the following statements is NOT a feature of 'soil'? (+1, -0.25)
- a. It is made up of inorganic matter.
 - b. It covers the surface of the earth.
 - c. It is a thin layer of grainy substance.
 - d. It is made up of minerals.
-
27. Who among the following is associated with Third Anglo Mysore War and introduction of civil services in India? (+1, -0.25)
- a. Lord Cornwallis
 - b. Lord Hastings
 - c. Lord William Bentinck
 - d. Lord Wellesley
-
28. Which of the following is defined as the ratio of liquid assets to net demand and time liabilities? (+1, -0.25)
- a. Cash Debt Ratio
 - b. Asset Liability Ratio
 - c. Statutory Liquidity Ratio
 - d. Cash Reserve Ratio
-

29. India's first exclusive private jet terminal was inaugurated on 17 September 2020 in _____ (+1, -0.25)

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

30. The 'Mahamagham' festival is celebrated once in every 12 years in _____ (+1, -0.25)

- a. Goa
 - b. Tamil Nadu
 - c. Bihar
 - d. Nagaland
-

31. 'Shantaram' is a novel written by _____ (+1, -0.25)

- a. Chetan Bhagat
 - b. Amitav Ghosh
 - c. Salman Rushdie
 - d. Gregory David Roberts
-

32. Viswanathan Anand was the first recipient of the _____ in 1991-92. (+1, -0.25)

- a. Arjuna Award
 - b. Rajiv Gandhi Khel Ratna Award
 - c. Ekalavya Award
 - d. Dronacharya Award
-

33. Seventy Forth Amendment Act, 1992 of the Constitution of India is related to _____ (+1, -0.25)

- a. municipalities
 - b. citizenship
 - c. emergency provisions
 - d. the fundamental duties
-

34. The 73rd Amendment Act of 1992 gave constitutional recognition to the panchayats by adding a new part _____ to the constitution. (+1, -0.25)

- a. X
 - b. XI
 - c. XII
 - d. IX
-

35. In which year was the Hunter Commission appointed by Lord Ripon? (+1, -0.25)

- a. 1881

- b. 1882
 - c. 1883
 - d. 1880
-

36. With reference to the Iron and Steel industries, which of the following pairs of cities and states is correct? (+1, -0.25)

- a. Bokaro - Bihar
 - b. Bhilai - Chhattisgarh
 - c. Durgapur - Assam
 - d. Rourkela - Karnataka
-

37. As per a circular issued by the Reserve Bank of India in August 2021, banks will be charged a penalty of ₹10,000 per ATM in case the ATM remains out of cash for a total period of _____ hours in a month from 1 October 2021 onwards. (+1, -0.25)

- a. 24
 - b. 12
 - c. 10
 - d. 18
-

38. Apart from Gujarat, Jiviti (Jivti/Jivati) Puja is performed by married women, mainly in the state/union territory of _____.

- a. Nagaland

- b. Bihar
 - c. Maharashtra
 - d. Jammu and Kashmir
-

39. In December 2020, IIT _____ researchers have demonstrated how with the use of a micro-structured hour-glass-shaped metastructure in the lattice unit, one can get a wider variation of propagation and stop bands. (+1, -0.25)

- a. Ropar
 - b. Kharagpur
 - c. Kanpur
 - d. Delhi
-

40. _____ was the first woman Governor of Goa. (+1, -0.25)

- a. Sarla Grewal
 - b. Padmaja Naidu
 - c. Kumudben Joshi
 - d. Mridula Sinha
-

41. Which of the following metals is susceptible to fire if kept in the open? (+1, -0.25)

- a. Potassium
- b. Lead

- c. Lithium
 - d. Mercury
-

42. The Mahajan Commission Report 2020 is related to the border issue of _____ (+1, -0.25)

- a. Kerala, Tamil Nadu and Karnataka
 - b. Assam, Nagaland and Mizoram
 - c. Karnataka, Kerala and Maharashtra
 - d. Odisha, Telangana and Andhra Pradesh
-

43. The Food and Agriculture Organization of the United Nations (FAO) declared Koraput Traditional Agriculture as a 'Globally Important Agricultural Heritage System' (GIAHS) in the year _____ (+1, -0.25)

- a. 2012
 - b. 2011
 - c. 2013
 - d. 2014
-

44. The Maurya dynasty ruled over Magadha after the reign of the _____ (+1, -0.25)

- a. Nanda dynasty
- b. Gupta dynasty

- c. Sunga dynasty
 - d. Kushana dynasty
-

45. Who among the following rulers propounded a new way of life/religion called 'Din-i-Ilahi'? (+1, -0.25)

- a. Akbar
 - b. Shah Jahan
 - c. Jahangir
 - d. Bahadur Shah II
-

46. Amoeba pushes out one or more finger-like projections called _____ or false feet for movement and capture of food. (+1, -0.25)

- a. food vacuoles
 - b. endoplasm
 - c. pseudopodia
 - d. contractile vacuoles
-

47. In November 2020, what was the prediction of Moody's Investors Service for India's FY21 GDP? (+1, -0.25)

- a. -9.6%
- b. -11.6%
- c. -10.6%

d. -8.6%

48. The video assistant referee (VAR) system is used in the game of (+1, -0.25)
-----.

- a. cricket
 - b. basketball
 - c. hockey
 - d. football
-

49. How many times does blood pass through the heart of a fish in one cardiac cycle? (+1, -0.25)

- a. Twice
 - b. Four times
 - c. Thrice
 - d. Once
-

50. With his 92nd victory at the 2020 Portuguese Grand Prix, who among the following became Formula One's record all time race-winner to surpass Michael Schumacher and top the list? (+1, -0.25)

- a. Lewis Hamilton
- b. Max Verstappen
- c. Sebastian Vettel

d. Charles Leclerc

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Elementary Mathematics

51. In an election contested by two parties, Party D secured 12% of the total votes more than Party R. If Party R got 176000 votes, by how many votes did it lose the election? (+1, -0.25)
- a. 48000
- b. 62000
- c. 40000
- d. 24000
-
52. The population of a particular city is 5,00,000. If the annual birth rate is 5% and the annual death rate is 1%, then what will be the population of the city after 3 years? (+1, -0.25)
- a. 5,95,502
- b. 5,62,432
- c. 4,44,498
- d. 4,42,368
-
53. A sum of Rs. 15,500 amounts to Rs. 19,189 in $3\frac{1}{2}$ years at a certain rate per cent per annum, at simple interest. The simple interest on the same sum at the same rate for $6\frac{2}{3}$ years will be (nearest to a Rs.): (+1, -0.25)
- a. Rs. 8,060
- b. Rs. 7,012

c. Rs. 8,057

d. Rs. 7,027

54. The greatest number of six digits which is divisible by 42, 44, 26, 39 and 40 (+1, -0.25) is:

a. 960954

b. 960960

c. 960945

d. 960958

55. Find the ratio between the fourth proportional of 2, 4, 6 and the third proportional of 4, 8. (+1, -0.25)

a. 6 : 11

b. 4 : 3

c. 5 : 9

d. 3 : 4

56. The value of $25 - [20 - \{10 - (7 - 2)\}]$ is: (+1, -0.25)

a. 12

b. 10

c. 8

d. 7

57. A solid metallic cuboid of dimensions 64 cm × 36 cm × 44 cm is melted and solid balls, each of radius 12 cm, are made from this material. The number of balls will be (Take $\pi = \frac{22}{7}$): (+1, -0.25)

a. 12

b. 15

c. 10

d. 14

58. Badri loses 15% when he sells his scooter for Rs. 17,000. At what price (in Rs.), should he sell it to earn 18% profit? (+1, -0.25)

a. 22,400

b. 23,900

c. 24,200

d. 23,600

59. A and B can complete a work in 6 days. B and C can complete the same work in 10 days. A, B and C together can complete the same work in 5 days. In how many days can A and C complete the same work? (+1, -0.25)

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

b. 8 days

c. 7 days

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

60. If A is one third of B, B is twice of C, D is two-third of A and the average of A, B, C and D is 74, then the difference between A and C is: **(+1, -0.25)**

a. 32

b. 26

c. 28

d. 24

61. The distance between two towns is covered in 8 h at a speed of 55 km/h. How much time (in hours and minutes) will be saved if the speed is increased by 25 km/h? **(+1, -0.25)**

a. 3 h 30 min

b. 3 h 50 min

c. 2 h 30 min

d. 2 h 50 min

62. When a number is divided by 3, 4, 6, 15 and 20, the remainder in each case is 1. Also, the number is the greatest 3-digit number. The sum of the digits of the number is: **(+1, -0.25)**

a. 10

b. 15

c. 13

d. 16

63. Sachin takes 50 minutes more than Prem to walk 35 km. But if Sachin doubles his speed, he is ahead of Prem by $1\frac{1}{2}$ hours. Sachin's speed is: (+1, -0.25)

- a. 7 km/h
 - b. $7\frac{1}{2}$ km/h
 - c. $8\frac{1}{2}$ km/h
 - d. 8 km/h
-

64. The cost price of an article is Rs. 1,545, which is 25% below the marked price. If the article is sold at 18% discount, what profit percent is made on the transaction? (+1, -0.25)

- a. 9.67
 - b. 13.33
 - c. 9.33
 - d. 13.67
-

65. Nine umbrellas are bought for Rs. 800 and sold at 7 for Rs. 800. What is the gain percentage (correct to 2 decimal places)? (+1, -0.25)

- a. 28.57
- b. 28
- c. 20

d. 26.5

66. The value of $\frac{18 \times 4 \div 2 \text{ of } 3 - 4}{2 \times (9 - 7) + 1 - 2 \times 3 \div 4 \text{ of } \frac{1}{2}}$ is: (+1, -0.25)

a. 6

b. 4

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

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

67. If 60% of tax is deducted from Rahul's salary, then Rs. 12,800 is left to be paid as tax. The total tax to be paid by Rahul is: (+1, -0.25)

a. Rs. 30,000

b. Rs. 35,000

c. Rs. 32,000

d. Rs. 28,000

68. The average of seven odd numbers, taken in increasing order, is 79. What is the average of the first five numbers? (+1, -0.25)

a. 78

b. 77

c. 75

d. 76

69. For an item, a manufacturer gains 12%, a wholesaler gains 10%, and a retailer gains 15%. Find the cost price of the item for the manufacturer, if its retail price is Rs. 56,672. (+1, -0.25)
- a. Rs. 35,000
 - b. Rs. 28,000
 - c. Rs. 32,000
 - d. Rs. 40,000
-

70. The 8% interest earned on a sum of money of Rs. 1,40,000 is to be used for awarding 20 scholarships of equal value every year in a school. What is the value (in Rs.) of each scholarship? (+1, -0.25)
- a. 660
 - b. 560
 - c. 700
 - d. 600
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71. The ratio of the market price of wheat and rice is 3 : 8 and the ratio of their quantities consumed in a family is 4 : 9. What is the ratio of expenditure on wheat and rice? (+1, -0.25)
- a. 6 : 1
 - b. 3 : 2
 - c. 1 : 6

d. 2 : 3

72. The cost of one chair is Rs. 450. Ravi buys 10 chairs for Rs. 3,825. The discount per cent he gets in buying the 10 chairs is: (+1, -0.25)

a. 12%

b. 10%

c. 8%

d. 15%

73. If the sides of a rectangle, whose area is 154 cm^2 , differ by 3 cm, then find the length (in cm) of the longer side. (+1, -0.25)

a. 15

b. 12.5

c. 14

d. 14.5

74. A bag contains coins of denominations Rs. 1, Rs. 2 and Rs. 5 only in the ratio of 12 : 5 : 3. If the total amount in the bag is Rs. 3,626, then what is the number of coins of Rs. 5 in the bag? (+1, -0.25)

a. 285

b. 297

c. 291

d. 294

75. Madhu and Shiney can complete a piece of work in 20 days, Shiney and Rosy can complete it in 12 days and Rosy and Madhu can complete it in 15 days. In how many days will they complete it together? (+1, -0.25)

a. 4 days

b. 10 days

c. 8 days

d. 12 days

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English

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

Last week, I saw a TV programme about the _____ of global warming on agriculture.

- a. shock
- b. import
- c. impact
- d. relief

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

The music / blared out / and was impossible / to have a conversation.

- a. to have a conversation
- b. and was impossible
- c. blared out
- d. The music

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

- a. Auxillary
- b. Capillary
- c. Ancillary

d. Corollary

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

Dig up dirt on someone

- a. Bury the dead in the ground
 - b. Discover damaging information about someone
 - c. Take revenge on somebody
 - d. Protest against someone
-

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

One who treats female ailments

- a. Neurologist
 - b. Chiropodist
 - c. Gynaecologist
 - d. Psychiatrist
-

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

Belonging to very distant past and no longer in existence

- a. Historic
- b. Aged

- c. Ancient
 - d. Old-fashioned
-

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

To land a job

- a. To plough the land
 - b. To be dismissed
 - c. To do farming
 - d. To be hired
-

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

Choosy

- a. Precious
 - b. Critical
 - c. Boring
 - d. Picky
-

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

Treacherous

- a. Retarded
- b. Unfaithful

- c. Sluggish
 - d. Steadfast
-

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

Relating to a festival

- a. Festoon
 - b. Fulvous
 - c. Frenzy
 - d. Festal
-

86. 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)

Which planet is most closer to the sun?

- a. the closest
 - b. No improvement required
 - c. most close
 - d. more close
-

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

One or the other / of those men have / stolen my / grandfather's umbrella.

- a. One or the other
- b. of those men have
- c. grandfather's umbrella
- d. stolen my

88. 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)

Work hard lest you should not fail.

- a. lest you shall fail
- b. lest you should fail
- c. No substitution required
- d. lest you will fail

89. 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)

Kolkata is a capital of the Indian state of West Bengal.

- a. was a capital of the
- b. No substitution required
- c. is the capital of the

d. is a capital of a

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

Here into / the main campus of the hospital / comes the trained doctors / led by the Principal.

- a. the main campus of the hospital
 - b. Here into
 - c. led by the Principal
 - d. comes the trained doctors
-

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

She _____ her breath, surprised by the suddenness of the question.

- a. caught
 - b. gasped
 - c. shook
 - d. clicked
-

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

- a. Confeguration
- b. Configuretium
- c. Confeguretion

d. Configuration

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

A doctor's first concern is the _____ of his patients.

- a. profit
 - b. well-being
 - c. benefit
 - d. advantage
-

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

Allure

- a. Repulsion
 - b. Charm
 - c. Appeal
 - d. Magic
-

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

Obedient

- a. Voluntary
- b. Disobedient
- c. Flexible

d. Willing

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)

Tourists to Jammu and Kashmir have another (1) _____ – a floating post office on the Dal Lake (2) _____ on a carved maroon houseboat. It is fastened (3) _____ the western edge of the Dal Lake. It (4) _____ all regular postal services while being (5) _____ on the lake.

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

- a. attention
- b. addiction
- c. attraction
- d. invitation

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)

Tourists to Jammu and Kashmir have another (1) _____ – a floating post office on the Dal Lake (2) _____ on a carved maroon houseboat. It is fastened (3) _____ the western edge of the Dal Lake. It (4) _____ all regular postal services while being (5) _____ on the lake.

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

- a. assembled
- b. built

- c. produced
- d. completed

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)

Tourists to Jammu and Kashmir have another (1) _____ – a floating post office on the Dal Lake (2) _____ on a carved maroon houseboat. It is fastened (3) _____ the western edge of the Dal Lake. It (4) _____ all regular postal services while being (5) _____ on the lake.

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

- a. in
- b. by
- c. to
- d. of

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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)

Tourists to Jammu and Kashmir have another (1) _____ – a floating post office on the Dal Lake (2) _____ on a carved maroon houseboat. It is fastened (3) _____ the western edge of the Dal Lake. It (4) _____ all regular postal services while being (5) _____ on the lake.

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

- a. offered

- b. offer
- c. offers
- d. has offered

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)

Tourists to Jammu and Kashmir have another (1) _____ – a floating post office on the Dal Lake (2) _____ on a carved maroon houseboat. It is fastened (3) _____ the western edge of the Dal Lake. It (4) _____ all regular postal services while being (5) _____ on the lake.

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

- a. afloat
- b. boating
- c. floating
- d. ashore

Answers

1. Answer: c

Explanation:

The logic followed here is :-



Hence, the correct answer is "2760".

2. Answer: a

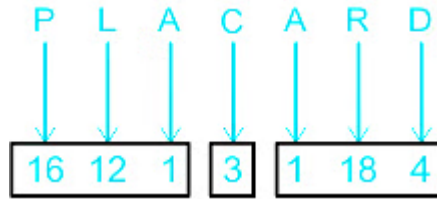
Explanation:

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

The logic followed here is :-

Sum of first three alphabet positional value - Fourth alphabet positional value - Sum of last three alphabet positional value.

PLACARD is coded as 29-3-23.

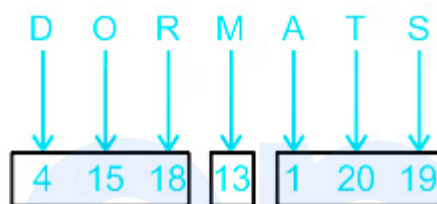


$$= (16 + 12 + 1) - 3 - (1 + 18 + 4)$$

$$= 29 - 3 - 23$$

And

DORMATS is coded as 37-13-40.

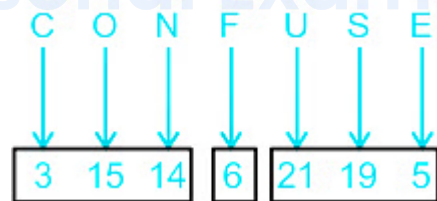


$$= (4 + 15 + 18) - 13 - (1 + 20 + 19)$$

$$= 37 - 13 - 40$$

Similarly,

CONFUSE will be coded as :



$$= (3 + 15 + 14) - 6 - (21 + 19 + 5)$$

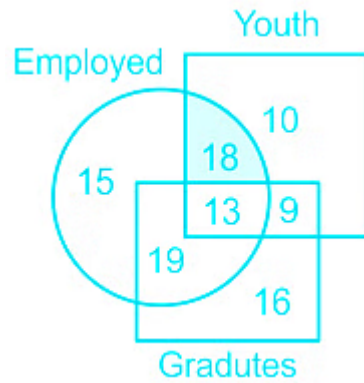
$$= 32 - 6 - 45$$

Hence, the correct answer is "32-6-45".

3. Answer: c

Explanation:

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



∴ Here, the number of employed youths who are NOT graduates are 18.

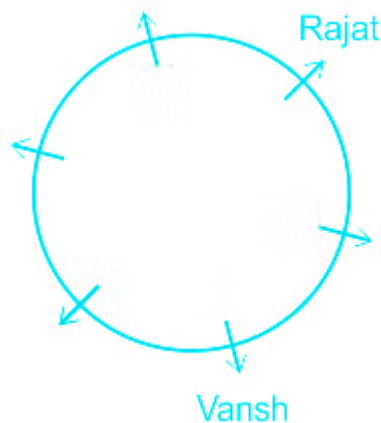
Hence, the correct answer is "18".

4. Answer: a

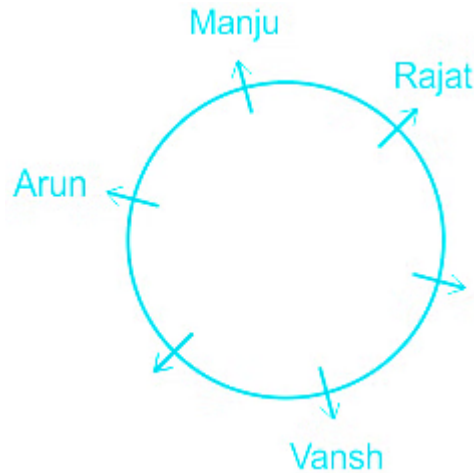
Explanation:

Six friends, Priya, Arun, Vansh, Rajat, Bhavna and Manju, are sitting around a circular table, with their backs towards the centre.

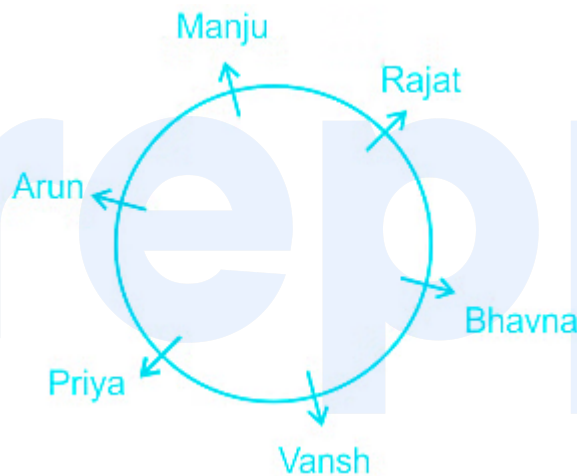
1) Vansh is sitting second to the right of Rajat.



2) Manju is sitting between Rajat and Arun.



3) Arun and Priya are not the neighbours of Rajat.



∴ Here, 'Bhavna' is sitting in between Vansh and Rajat

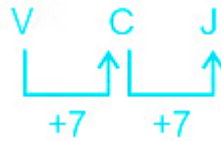
Hence, the correct answer is "**Bhavna**".

5. Answer: c

Explanation:

The image formed in given series at ? is as shown below :-

- The bottom right symbol is moving to middle from figure to figure.
- On left side lower part is empty in first and upper part is empty in second repeated simultaneously.



4) MTA



∴ Here, "GAH" is different from other three alternatives.

Hence, the correct answer is "GAH".

7. Answer: c

Explanation:

The logic followed here is :-

Courageous is synonym of Brave.

Similarly,

Insane is synonym of Stupid.

Hence, the correct answer is "Insane".

8. Answer: a

Explanation:

The arrangement of the given words in the order in which they appear in an English dictionary is as shown below :

4. Ta marind

1. Tar get
2. Ta rn ish
3. Tarot
5. Tenacity

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

9. Answer: a

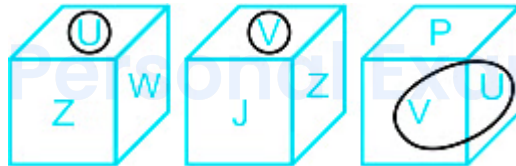
Explanation:

Opposite surface of the open dice can be found by the below method:-

- Alternate surfaces are opposite to each other.
- No two opposite surface are touched by side or by corners

From the positions 1, 2, 3 of Dice the opposite faces identified as :

From dice First, second and third:



Alphabets	Opposite
U	J
V	W
Z	P

∴ Here, the opposite side of 'Z' is 'P'.

Hence, the correct answer is "P".

10. Answer: a

Explanation:

The logic followed here is :-

Second number = (First digit of number - Second digit of number) \times 2

$$85 : 6 \rightarrow (8 - 5) \times 2 = 3 \times 2 = 6$$

Similarly,

$$97 : ? \rightarrow (9 - 7) \times 2 = 2 \times 2 = 4$$

Hence, the correct answer is "4".

11. Answer: b

Explanation:

The logic followed here is as shown below :-



$$\rightarrow (a \times b) - c = d$$

Similarly,

1)



$$\rightarrow (7 \times 5) - 11 = 35 - 11 = 24$$

2)



$$\rightarrow (9 \times 8) - 15 = 72 - 15 = 57$$

3)



$$\rightarrow (12 \times 3) - 3 = 36 - 3 = 33$$

4)



$$\rightarrow (13 \times 7) - 21 = 91 - 21 = 70$$

Hence, the correct answer is "70".

12. Answer: d

Explanation:

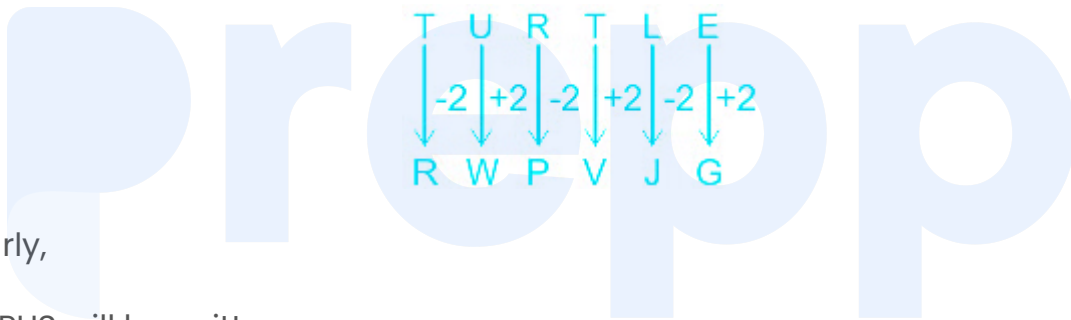
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is :-

Odd position letter of given word is -2.

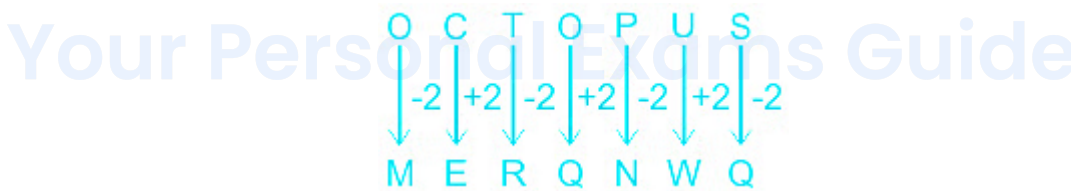
Even position letter of given word is +2.

TURTLE is written as RWPVJG.



Similarly,

OCTOPUS will be written as :



Hence, the correct answer is "MERQNWQ".

13. Answer: c

Explanation:

The logic followed here is :-

In a given row : (Middle number) Last number = First number

1)

125	5	3
-----	---	---

$$\Rightarrow 5^3 = 125$$

2)

128	?	7
-----	---	---

Consider $? = X$

$$\Rightarrow X^7 = 128$$

$$\Rightarrow X^7 = 2^7$$

$$\Rightarrow X = 2$$

3)

121	11	2
-----	----	---

$$\Rightarrow 11^2 = 121$$

Hence, the correct answer is "2".

14. Answer: b

Explanation:

The logic followed here is :-



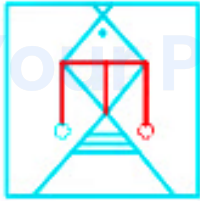



Hence, the correct answer is "1154".

15. Answer: b

Explanation:

The image not embedded in given figure is as shown below :

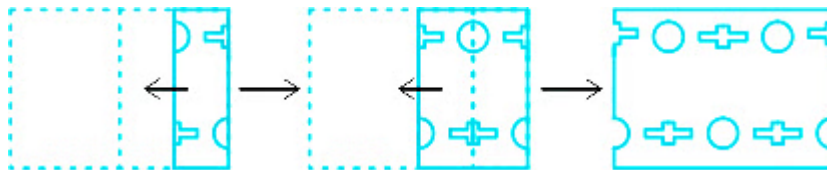
No.	Option	Question	Answer
1.		E	Not Embedded
2.		E	Embedded
3.		E	Not Embedded
4.		E	Not Embedded

Hence, the correct answer is "option 2".

16. Answer: b

Explanation:

After unfolding the given paper the figure formed is as shown below :-



Hence, the correct answer is "Option 2".

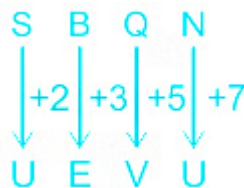
17. Answer: a

Explanation:

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

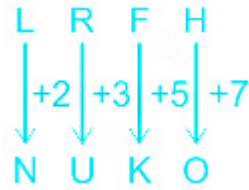
The logic followed here is :-

SBQN : UEVU



Similarly,

LRFH : ?



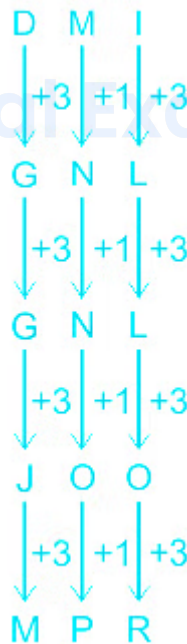
Hence, the correct answer is "NUKO".

18. Answer: d

Explanation:

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

The logic followed here is :-



Hence, the correct answer is "MPR".

19. Answer: b

Explanation:

Given :- D _ C T _ O _ T D O C _ D O _ T

By checking options and substituting accordingly.

1) T D C T C → D T C T - D O C T - D O C T - D O C T

2) O D C T C → D O C T - D O C T - D O C T - D O C T

- Here "DOCT" is repeated.

3) O D T T C → D O C T - D O T T - D O C T - D O C T

4) O D C T D → D O C T - D O C T - D O C T - D O D T

- Option (2) gives the pattern of :- D O C T - D O C T - D O C T - D O C T

Hence, the correct answer is "O D C T C".

20. Answer: a

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Explanation:

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

The logic followed here is :-

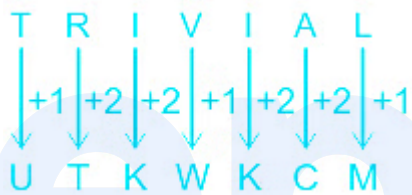
First letter is added with +1 and next two letter of word is added with +2 it is repeated.

KINGDOM is written as LKPHFQN.



Similarly,

TRIVIAL will be written as :



Hence, the correct answer is "UTKWKCM".

21. Answer: c

Explanation:

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



Detailed Explanation:

- The line "PQ" is the mirror.
- The word "54RQXZ" ends with letter "Z". So, the mirror image starts with "



" ⇒ Option 1 is eliminated.

- The word "54RQXZ" has last third letter "Q". So, the mirror image should be "



" ⇒ Option 2 and 4 are eliminated.

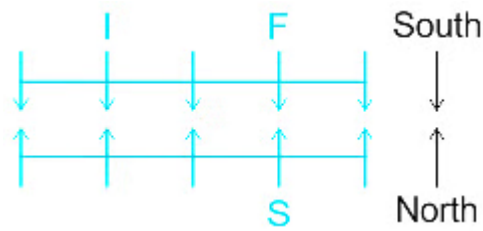
Hence, the correct answer is "Option 3".

22. Answer: c

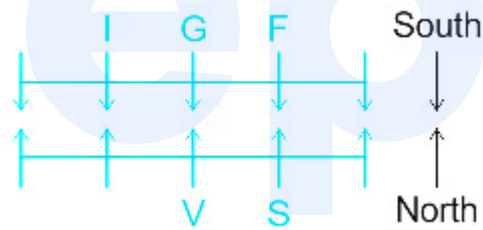
Explanation:

F, G, H, I and J are sitting in a line facing south while R, S, T, U and V are sitting in a second line parallel to the first line and are facing north.

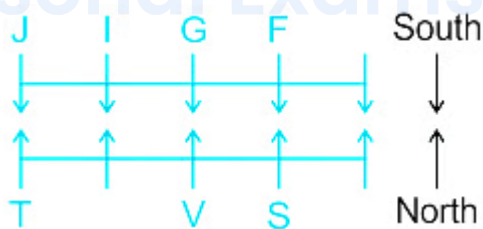
1) I is second to the right of F, F is opposite to S.



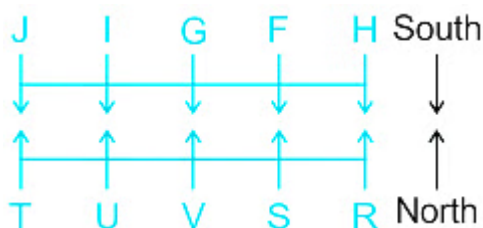
2) G is opposite to V who is just next to the left of S.



3) T who is the second to the left of V, is opposite to J.

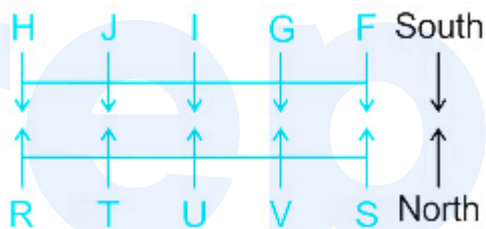
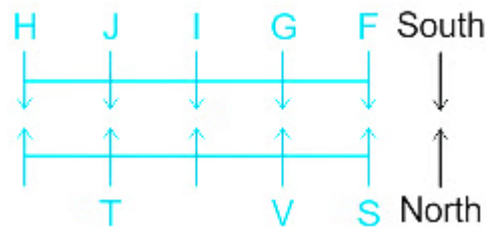
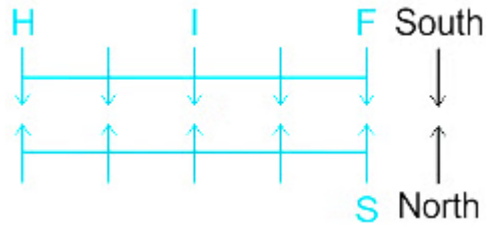


4) R is at one end of the line and H and S are diagonally opposite to each other and at the extreme ends.



∴ Here, "HR, IU" pairs are opposite to each other.

Hence, the correct answer is "HR, IU".



23. Answer: d

Explanation:

By using BODMAS RULE :

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

Given :-

Symbols	Stands for
+	×
-	÷
×	+
÷	-

Given expression : $47 + 12 \div 288 \times 18$

After interchanging the given symbols the expression formed is :

$$= 47 \times 12 - \underline{288 \div 18}$$

$$= \underline{47 \times 12} - 16$$

$$= \underline{564} - 16$$


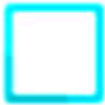



$$= 548$$

Hence, the correct answer is "548".

24. Answer: d

Explanation:

Family chart :-

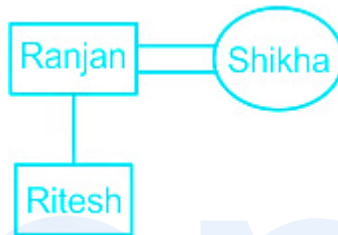
Symbol in Diagram	Meaning
	Female
	Male
	Married Couple
	Siblings
	Difference of A Generation

Family Tree :

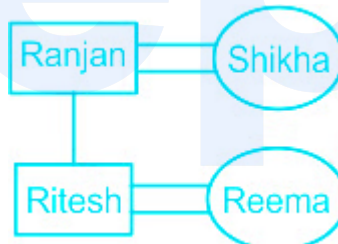
1) Ranjan is the father of Ritesh.



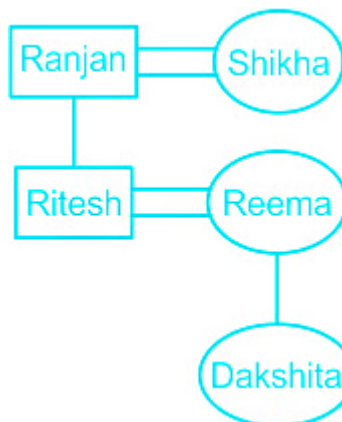
2) Ritesh is the only son of Shikha.



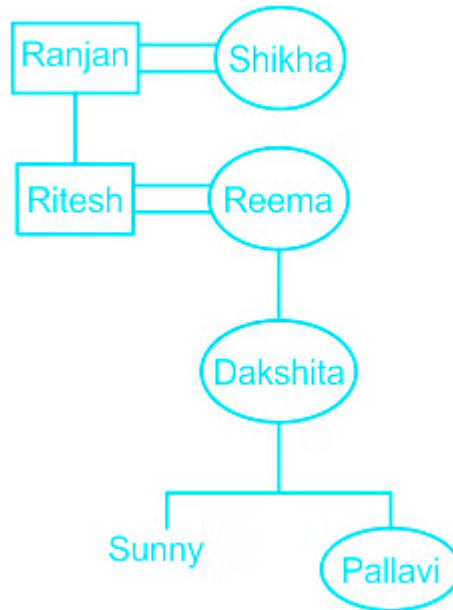
3) Shikha is the mother-in-law of Reema.



4) Dakshita is the only daughter of Reema.



5) Ritesh, who is the maternal grandfather of Sunny and Pallavi is the sister of Sunny.



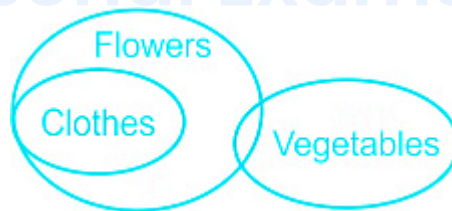
∴ Here, Dakshita is mother of sunny.

Hence, the correct answer is "Mother".

25. Answer: d

Explanation:

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



Conclusions:

I. Some flowers are clothes → True (As All clothes are flowers so, Some flowers are clothes is true)

II. Some vegetables are flowers → True (As Some flowers are vegetables so, Some vegetables are flowers is true)

∴ Here, Both conclusions I and II are true.

Hence, the correct answer is "**Both conclusions I and II follow**".

26. Answer: a

Explanation:

The correct answer is It is made up of inorganic matter.

★ Key Points

- Soil
 - Soil is a combination of organic matter, minerals, gases, liquids, and organisms that support life.
 - Soil is a living natural element .
 - It is made up of both mineral and organic material.
 - Soil properties are determined by the parent rock.
 - Most soils have a dry bulk density of 1.1 to 1.6 g/cm³.

★ Additional Information

- There is **six main Type soil**:
 - **Sandy Soil**– The first type of soil is sand, It consists of small particles of weathered rock.
 - **Slit Soil** –Silt is known to have much smaller particles compared to sandy soil and is made up of rock and other mineral particles, which are smaller than sand and larger than clay.
 - **Clay Soi** l–Clay is the smallest particle among the other two types of soil, The particles in this soil are tightly packed together with each other with very little or no airspace.
 - **Loamy Soi** l– It is a combination of sand, silt and clay such that the beneficial properties of each are included, For instance, it has the ability to retain moisture and nutrients, hence it is more suitable for farming.
 - **chalky** –Chalky or lime-rich soils may be light or heavy but are largely made up of **calcium carbonate and are very alkaline.**

- **peaty** -Peat soil is a type of soil made from decomposed **organic materials** that form over thousands of years.

27. Answer: a

Explanation:

The correct answer is Lord Cornwallis.

★ Key Points

- Third Anglo- Mysore war (1790–92).
- The third Anglo–Mysore war **began in 1790**.
- **Lord Cornwallis** formed a triple alliance against **Tipu Sultan in 1790** .
- The **triple alliance** consisted of the **British, Nizam of Hyderabad and the Marathas** .
- Third, Anglo–Mysore war (1790–92) Britishers attacked **Seringapatnam** , Tipu suffered a huge loss in the war.
- It ended with the **Treaty of Seringapatam in 1792** .

★ Additional Information

- First Anglo–Mysore war (1766–69).
 - The Treaty of **Madras (1769)** ended the **First Anglo–Mysore war**.
 - It was signed between the British and **Hyder Ali** of Mysore.
 - Haider Ali defeated the British.
- Second Anglo Mysore war (1780–84) :
 - **Warren Hastings** attacked the **French port Mahe** , which was in Haider Ali's territory.
 - Haider Ali made an alliance with **Marathas and Nizams and attacked British**
 - In **1781**, Haider Ali was defeated at **Porto Novo by Eyre Coot**.
 - The war ended with a treaty of Mangalore, signed between the Tipu Sultan and the British **East India Company in 1784**.
 - Haider Ali died during the second Anglo–Mysore war.

28. Answer: c

Explanation:

The correct answer is the Statutory Liquidity Ratio.

★ Key Points

- **Statutory liquidity ratio (SLR)** is the reserve requirement that commercial banks in India are required to maintain in the form of **cash, gold reserves, and government-approved securities** before providing credit to customers.
- When SLR is reduced, banks have more money to lend which may lead to a **decrease in lending rates**.
- By changing the level of SLR, the **Reserve Bank of India can increase or decrease bank credit expansion**.
- By reducing the level of SLR, the **RBI can increase liquidity with commercial banks, resulting in increased investment**.
- This is done to **fuel growth and demand**.

★ Additional Information

- **Corporate social responsibility (CSR)** .
- The title corporate social **responsibility** has two meanings, First, it's a general name for any theory of the corporation that emphasizes both the responsibility to make money and the responsibility to interact ethically with the **surrounding community**.
- Corporate social responsibility is also a specific conception of that responsibility to profit while playing a role in broader questions of community welfare, Corporate social responsibility is composed of **four obligations**.
 - **Ecological responsibility**
 - **Legal responsibility**
 - **Social responsibility**
 - **Philanthropic responsibility**

29. Answer: a

Explanation:

The correct answer is Delhi.

★ Key Points

- Civil Aviation Minister **Hardeep Singh Puri** has inaugurated India's first General Aviation Terminal at Delhi airport.
- The exclusive terminal will handle the flight operations of private jets.
- The new terminal has been built to support the movement and processing of passengers flying through chartered flights from IGI Airport.

★ Additional Information

Airport Authority of India (AAI)

- It is a statutory authority.
- It was founded on 1st April 1965.
- It works under the Ministry of Civil Aviation, Government of India.
- It is responsible for creating, upgrading, maintaining, and managing civil aviation infrastructure in India.
- Headquarters - New Delhi.
- Chairman - **Sanjeev Kumar**(as of oct-2022).

★ Important Points

City	International Airport
Mumbai	Chhatrapati Shivaji Maharaj International Airport
Kolkata	Netaji Subhas Chandra Bose International Airport
Chennai	Chennai International Airport
Goa	Dabolim Airport

30. Answer: b

Explanation:

The correct answer is Tamil Nadu.

★ Key Points

- Mahamaham Festival is a bathing ritual observed every 12 years and said to atone for one of their sins.
- Thousands of Hindu devotees who take a plunge in the Mahamaham tank attend the event in Kumbakonam.
- The Hindu festival of Mahamaham is also known as Mahamagham or Mamangam.

★ Additional Information

Festival	State
Pongal	Tamil Nadu
Lohri, Baisakhi	Punjab
Onam	Kerala
Makar Sakranti	North India
Bihu	Assam
Nuakhai	Orissa
Gudi Padwa	Maharashtra
Wangala	Meghalaya and Assam
Ugadi	Andhra Pradesh and Karnataka
Vishu	Kerala and Karnataka

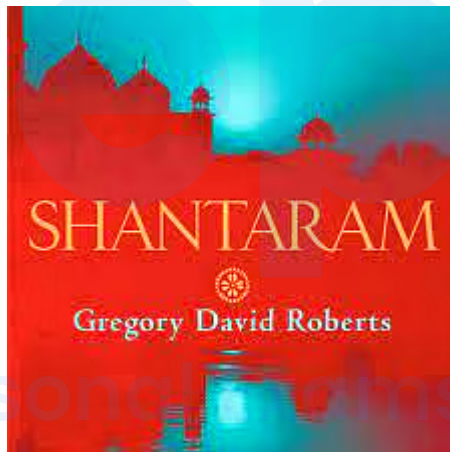
31. Answer: d

Explanation:

The correct answer is Gregory David Roberts.

★ Key Points

- Gregory David Roberts is an **Australian author** .
- He wrote the **Shantaram novel in 2003** .
- It is a story of the life of the author escaping from a maximum security prison and travelling with a fake passport arriving in Bombay, India.
- The book's title is named after his best friend's mother gave him, which means **Man of Peace** .



★ Additional Information

Author	Books
Chetan Bhagat	<ul style="list-style-type: none"> • Five Point Someone (2004) • One Night at the Call Center (2005) • The 3 Mistakes Of My Life (2008)
Amitav Ghosh	<ul style="list-style-type: none"> • The Circle of Reason (1986) • The Shadow Lines (1988) • The Calcutta Chromosome (1995)
Salman Rushdie	<ul style="list-style-type: none"> • Grimus (1975) • Midnight's Children (1981) • Shame (1983)

32. Answer: b

Explanation:

The correct answer is Rajiv Gandhi Khel Ratna Award.

★ Key Points

- Viswanathan Anand is an **Indian chess player** .
- He was born on **11 December 1969** in Chennai, Tamil Nadu, India .
- He won the **FIDE World Rapid Chess Championship** in 2003 and 2017, and the **World Blitz Cup** in 2000 .
- He was the first Indian to be conferred with the **Rajiv Gandhi Khel Ratna Award** in the year 1991-1992 .
- He was honoured with **Padma Vibhushan** in the year 2007 .

★ Additional Information

Rajiv Gandhi Khel Ratna Award (Now called **Major Dhyan Chand Khel Ratna Award**)

- It was instituted in **1991** .
- This is the highest sporting award given by the **Ministry of Youth Affairs and Sports** .
- It is given for the spectacular and most **outstanding performance in the field of sports by a sportsperson** over a period of four years.
- The winner of the Rajiv Gandhi Khel Ratna Award gets a reward of 7.5 lac rupees previously now increased to **25 lakhs** (As of 2022).

★ Important Points

Arjuna Award

- Arjuna Award is the **second-highest sporting honour in India** , the highest being the **Major Dhyan Chand Khel Ratna Award** .
- It is given by the **President of India** .
- The selection of candidates is done by the **Ministry of Youth Affairs and Sports** .

Dronacharya Award

- Dronacharya Award is given to those **coaches who have successfully trained sportspersons or teams** and enabled them to achieve outstanding results in international competitions.
- This eminent award was started in the year **1985** .
- This award is named after the **legendary guru or teacher Dronacharya** .

33. Answer: a

Explanation:

The correct answer is municipalities.

★ Key Points

- 74th amendment act 1992 gave **constitutional recognition to Municipalities** .

- It added a new part in the constitution **Part IX A with articles 243 P To Article 243 ZG** .
- It also included a 12th Schedule in the constitution which contains **18 functional items of Municipalities mentioned in Article 243 W** .
- It was done to **revitalise and strengthen** the urban governments which are also known as **Urban local self-government** .
- With the 74th amendment act, it was compulsory to constitute **Nagar Panchayats, Municipal councils and ,Municipal corporations** in urban areas.
- It included a **reservation of seats for Scheduled Castes / Scheduled Tribes** in proportion to their population.
- It made the compulsory reservations of **one-third of seats for women** .
- It fixed the tenure at **five years** and in case of earlier dissolution fresh elections are held within six months.

★ Additional Information

- The first municipal corporation in India was created in **Madras in 1688** .
- **Lord Ripon** was the viceroy who created **local self-government in 1882** in India and was also called the **father of local self-government** .
- 65th Constitutional Amendment Bill was introduced in the Lok Sabha in August 1989 to constitutionalize, strengthen and revamp the municipal bodies but couldn't get passed.

★ Important Points

Important Provision	Part and Article
Citizenship	Part II, Articles 5 to 11
Emergency provisions	XVIII, Article 352 to 360
The fundamental duties	IV A, Article 51A

34. Answer: d

Explanation:

The correct answer is IX.

★ Key Points

- 73rd amendment act 1992 gave constitutional recognition to Panchayats.
- It added a new part to the constitution Part IX with articles Articles 243 to 243 (O).
- It also included an 11th Schedule in the constitution which contains **29** functional items of Municipalities mentioned in Article 243-G.
- It was done to revitalise and strengthen the rural governments which are also known as Rural local self-government.
- With the 73rd amendment act, it was compulsory to constitute **Gram Panchayat, Panchayat Samiti, and Zila Parishad in rural areas** .
- It included a reservation of seats for Scheduled Castes / Scheduled Tribes in proportion to their population.
- It made the compulsory reservations of one-third of seats for women .
- It fixed the tenure at five years and in case of earlier dissolution fresh elections are held within six months.
- Establishment of the **state election commission** to conduct its election.
- Constitution of the **state finance commission** after every 5 years to review the financial position of the panchayats.

★ Additional Information

- Lord Ripon was the viceroy who created local self-government in 1882 in India and was also called the father of local self-government.
- It had been established after the advice of the **Balwant Rai Mehta committee** , which is established by the Govt. of India in **1957** .
- The **first Panchayat system** was introduced in **Rajasthan in 1959** .
- The **Panchayati Raj Institution (PRI)** consists of three levels:
 - Gram Panchayat at the village level
 - Block Panchayat or Panchayat Samiti at the intermediate level
 - Zilla Panchayat at the district level

★ Important Points

Part and Articles	Provision
Part X, Articles 244 to 244-A	The schedule and Tribal areas
Part XI, Articles 245 to 263	Relation between the Union and States
Part XII, Articles 264 to 300-A	Finance, Property, Contracts and Suits

35. Answer: b

Explanation:

The correct answer is 1882.

★ Key Points

- The Hunter Commission of 1882 was presided over by **Sir William Hunter** and was appointed by **Lord Ripon**, the then-viceroy of India.
- It was constituted on 3rd April 1882 to **examine the implementation of the Dispatch of 1854**.
- It recommended the introduction of **practical subjects in secondary schools** so as to divert them into different walks of life.
- **Sir William Hunter** was an Indian Civil Service officer and a member of the Executive Council of the Viceroy.
- The following were the main objectives :
 - Consider different aspects of education in India, paying particular attention to **primary education**.
 - Enquire into the execution of Wood’s Despatch of 1854 and suggest ways to improve outcomes of the same.

★ Additional Information

Lord Ripon (1880-1884)

- He is known as the **father of local self-government** as the resolution was passed in his tenure.

- The first factory act (1881) was passed which prohibited the working of children below seven years and a limited number of working hours for children below 12 years .
- He also increased the age requirement for civil services from 18 years to 21 years .
- He repealed Vernacular Press Act and allowed freedom of the press .
- He continued the policy of financial devolution inaugurated under Lord Mayo

36. Answer: b

Explanation:

The correct answer is Bhilai – Chhattisgarh.

★ Key Points

- **Bhilai Steel Plant is situated in Chhattisgarh .**
- Bhilai is a city in the district of **Durg.**
- The Bhilai Steel Plant (BSP) is **India's first and main producer of steel rails.**
- Last 50 years, the Bhilai Steel Plant, which is India's largest integrated steel plant has gotten its supply of iron ore from **Dalli Rajhara's** mines.
- Bhilai Steel Plant was set up in **1955** with the help of the **USSR (Russia).**
- Bhilai is known as the "**Steel City of Central India**".

★ Additional Information

- The largest producer of steel in India is **Tata Steel .**
- Tata Steel is followed by **Steel Authority of India Ltd** in terms of production.
- **Bokaro Steel Plants** were set up with Soviet collaboration.

★ Important Points

Steel Plant	Location
Rourkela Steel Plant	Odisha
Bokaro Steel Plant	Jharkhand
Durgapur Steel Plant	West Bengal
Salem Steel Plant	Tamil Nadu
Tata Steel	Jamshedpur, Jharkhand
Visvesvaraya Steel Plant, Bhadravati	Karnataka

37. Answer: c

Explanation:

The correct answer is 10.

★ Key Points

- The Reserve Bank of India has proposed penalties for banks and White Label ATM operators if their ATMs are found to be lying without replenishment for more than ten hours to ensure customers and not inconvenienced.
- The regulator also directed banks and White Label ATM Operators to ensure a minimum duration of cashouts in ATMs.
- Cash-out will attract a flat penalty of Rs. 10,000 per ATM.

★ Additional Information

- RBI:
 - Governor - Shaktikanta Das.
 - Headquarters - Mumbai.
 - Founded: 1 April 1935, Kolkata.

38. Answer: c

Explanation:

The correct answer is Maharashtra.

★ Key Points

- Jivati puja is celebrated in the states of **Gujarat and Maharashtra** .
- It is celebrated in the month of **Shravan(July-August)** .
- Puja is performed by married women mainly.
- Jivti is an **incarnation of Parvati** , a goddess who is believed to **protect children** .
- **Roasted chana mixed with milk and sugar** is served after the puja.

★ Additional Information

States	Festivals
Nagaland	Hornbill Festival
Bihar	Chhath Puja
Jammu and Kashmir	Shikara Festival

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39. Answer: c

Explanation:

The correct answer is Kanpur.

★ Key Points

- IIT Kanpur researchers demonstrated how with the use of a micro-structured hour-glass-shaped metastructure in the lattice unit.
- The hourglasses are developed using **additive manufacturing** .
- With help of it, one can get a **wider variation of propagation and stop bands** .

- They got the inspiration to create lattice from a **two-headed drum** called 'Dambaru' or 'Damaru' which is used in **ancient Hinduism and Tibetan Buddhism** .
- It has wide applications in the field of **vibration isolation in high-speed trains, stealth submarines and helicopter rotors** .
- The application has shown that the nature of stiffness of a vibrating medium could be altered drastically by controlling the lattice micro-structure from **regular honeycomb to auxetic honeycomb structure** .

★ Additional Information

IIT	State/UT	Research
IIT Ropar	Punjab	IoT (Internet of Things) device – AmbiTag
IIT Kharagpur	West Bengal	Laser-heating technique
IIT Delhi	Delhi	PRACRITI dashboard for predicting the spread of Covid-19

40. Answer: d

Explanation:

The correct answer is Mridula Sinha.

★ Key Points

- Mridula Sinha , the first female governor of Goa.
- She was a prolific writer and ' Jyon Mehandi Ko Rang ', ' Nayi Devyani ' and ' Gharwaas ' are some of her novels.
- She also served as the head of the BJP's women's wing and chairperson of the Central Social Welfare Board in the Ministry of Human Resource Development.
- She was awarded the **Padma Shri** posthumously in 2021.

★ Additional Information

Sarla Grewal	Governor of Madhya Pradesh (1989–1990)
Padmaja Naidu	Governor of West Bengal (1956–1967)
Kumudben Joshi	Governor of Andhra Pradesh (1985–1990)

41. Answer: a

Explanation:

The correct answer is Potassium.

★ Key Points

- Potassium is a chemical element with the atomic number 19 and the **symbol** K.
- It is extremely reactive and reacts with air as well as water vigorously due to these characteristics they are easily susceptible to fire when kept in open.
- Potassium is a silvery-white metal that can be cut with a knife with little effort.
- They have low melting points and low densities
- In the periodic table, potassium is an alkali metal, which all have a single valence electron in the outer electron shell.
- In nature, Potassium occurs only in ionic salts.
- Uses of potassium:
 - It is used as a heat exchange medium and in nuclear power plants.
 - Potassium salts are a component of fertiliser.
 - It is one of the most important nutrients for the human body.
 - Potash can be used to make glass, soap, and a variety of other products.

★ Additional Information

Metals	Properties
Lead	It is a soft, silvery white or greyish metal with a low melting point.
Lithium	It has high specific heat capacity, high thermic conductivity, low viscosity and very low density.
Mercury	It is a less active metal, It does not react with oxygen in the air and reacts with few acids.

42. Answer: c

Explanation:

The correct answer is Karnataka, Kerala and Maharashtra.

★ Key Points

- The border dispute between the states of Maharashtra and Karnataka is also called the "Belgaum border dispute.
- Belgaum is currently part of Karnataka but is claimed by Maharashtra.
- When the states were divided based on linguistic and administrative lines under the **State Reorganization Act in 1956** Belgaum district was included under Mysore state (now Karnataka).
- Belgaum was originally part of the erstwhile Bombay Presidency which was a multi-lingual province.
- After India's independence in 1947, Belgaum came under the **Bombay Presidency**.

★ Additional Information

- **Mahajan Commission report:**
 - The Commission in its report in **August 1967** recommended that **264 villages be transferred to Maharashtra** (which was formed in 1960) and that **Belgaum and 247 villages** remain with Karnataka.

- **Maharashtra rejected** the report, calling it biased and illogical, and demanded another review.
- Maharashtra continues to claim over **814 villages** along the border, as well as Belgaum city, which is currently part of Karnataka.

43. Answer: a

Explanation:

The correct answer is 2012.

★ Key Points

- Koraput Traditional Agriculture is India's Traditional system in the **Koraput Region of Odisha** which is strongly linked to the local traditional communities.
- Through this system, high biodiversity has been conserved through **in-situ conservation preserving endemic species** .
- The system has helped conserve the **rich floristic diversity consisting of about 2500 species of flowering plants** .
- **The Food and Agriculture Organization of the United Nations (FAO)** declared **Koraput Traditional Agriculture** as a ' **Globally Important Agricultural Heritage System**' (GIAHS) in the year **2012** .

★ Additional Information

- Globally Important Agricultural Heritage Systems (GIAHS)
 - The program is led by **The Food and Agriculture Organization of the United Nations (FAO)** .
 - It **safeguards and supports the world's agricultural heritage systems** .
 - It helps identify ways to mitigate threats faced by these systems and their people and enhance the benefits derived from these dynamic systems.
 - There are three recognised GIAHS sites in India – **Kuttanad Below Sea Level Farming System of Kerala, Koraput Traditional Agriculture of Odisha and Pampore Saffron Heritage of Kashmir** .

44. Answer: a

Explanation:

The correct answer is Nanda Dynasty.

★ Key Points

- The Maurya dynasty ruled over **Magadha after the Nanda dynasty**.
- **Mahapadma Nanda**, murdered **Kalāsoka** to become the king and acquired the throne.
- The empire developed and grew under his reign.
- It expanded from the Kuru country in the north to the south of **Godavari Valley and from Magadha in the east to West in Narmada**.
- **Mahapadma Nanda conquered several kingdoms including Kalinga**.
- Nandas were very fond of wealth and were disliked because of their heavy taxes and undue exaction from the public.
- According to the Greek writers the army of the Nandas consisted of **20,00,000 infantry, 20,000 cavalries, 2,000 four-horsed charioteers, and 30,000 elephants**.
- The last ruler was Dhana Nanda who was overthrown by Chandra Gupta Maurya thus founding Mauryan Empire in 321 BC.

★ Additional Information

- **Magadha** was an ancient Indian kingdom in Bihar .
 - The First capital of Magadha was Rajgir .
 - The first ruling dynasty of Magadha was the Haryak dynasty.
 - Bimbasar ruled Magadha Empire for almost 52 years .
 - Nanda Dynasty ruled the Magadha Empire during the Alexander invasion of India.
 - The last of the Nanda Dynasty , Dhana Nanda was overthrown by Chandragupta Maurya .
 - Bimbisara on the throne of Magadha 545 BC Was sitting in
 - Bimbisara was the founder of the Harayak dynasty .
 - Bimbisara defeated Brahmadata and merged with the Anga kingdom in Magadha.

- Bimbisara was a follower of Buddhism.
- **Nanda dynasty:**
 - Nanda Dynasty ruled during 344 BC–323 BC.
 - Mandivardhana the last ruler of the Shishunaga dynasty was overthrown by Mahapadma Nanda and started the Nanda dynasty.
 - It is considered to be the first non-Kshatriya dynasty and ruled for 100 years.
 - Mahapadma is known as Sarvashatrantak i.e., uprooter of all the Kshatriyas and Ugrasena, i.e., owner of a huge army.
 - Dhanananda was The last king of the Nanda Dynasty.

45. Answer: a

Explanation:

The correct answer is Akbar.

★ Key Points

- Din-i-ilahi was a **religious path** suggested by Akbar.
- It was a **code of moral** conduct which reflected Akbar's **secular ideas** and his desire to achieve peace, unity, and tolerance in his empire.
- **Belief in one god**, worship of a source of light, non-killing of animals, and having peace with all were some features of Din-i-ilahi.
- It didn't have any rituals, holy books, temples or priests.
- The elements were primarily drawn from **Islam, Hinduism, and Zoroastrianism**, but some others were also taken from Christianity, Jainism, and Buddhism.

★ Additional Information

- **Akbar (1556–1605): He was the third Mughal emperor.**
 - Akbar succeeded his father, Humayun.
 - He built a hall called the Ibadat Khana ("House of Worship") at Fatehpur Sikri.
 - He built the Agra fort. He built Fatehpur Sikri city.

- **Shah Jahan** was the fifth Mughal emperor, His full name was Shahab-ud-din Muhammad Khurram.
 - He is known by the name because of his inclination toward architecture.
 - He built **Taj Mahal, Shahjahanabad (Delhi) city, Red Fort, Jama Masjid, Pearl Mosque, and Peacock throne.**
 - He was born on **5th January 1592 and reigned from 1628 – 1658 .**
- **Jahangir (1605 AD–1627 AD):**
 - He was the **son of Akbar.**
 - His real name was **Salim.**
 - In **1608 AD, Captain William Hawkins,** a representative of East India Company, came to Jahangir's court.
 - Sir Thomas Roe, an ambassador of King James I of England, also came to his court had hence ;Jahangir granted permission to the English to establish a trading port at Surat.
 - **Pietxa Valle,** a famous traveller came during his reign.
 - He wrote his memories **Tuzuk-i-Jahangiri in Persian.**

46. Answer: c

Explanation:

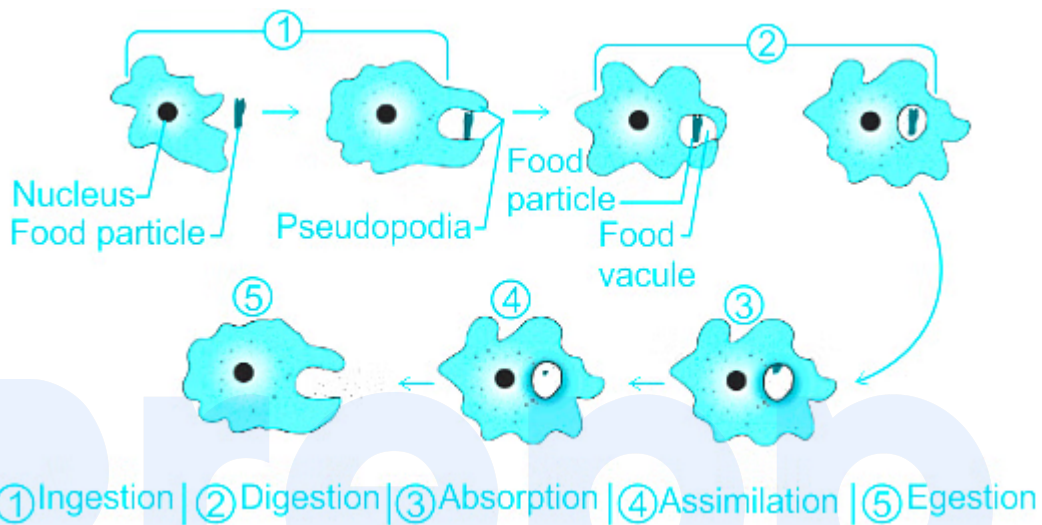
The correct answer is pseudopodia.

★ Key Points

- An amoeba often known as an amoeboid is a microscopic unicellular animal found in pond water.
- It has a **cell membrane, a rounded, dense nucleus** , and many small **bubble-like vacuoles** in its cytoplasm.
- It constantly changes its shape and position.
- It pushes out one, or more finger-like projections, called pseudopodia or false feet for movement and capture of food.
- It feeds on some microscopic organisms .
- When it senses food, it pushes out one or more finger-like projections **pseudopodia** around the food particle and engulfs it.

★ Additional Information

- **Food vacuoles** - These help digest the food in Amoeba.
- **Contractile vacuoles** - Wastes and excess water are transported outside the cell by it.
- **Endoplasm** - It refers to the inner and dense part of the cytoplasm of the cell.



47. Answer: c

Explanation:

The correct answer is -10.6%

★ Key Points

- A credit rating agency (CRA) is a company that **rates debtors on the basis of their ability** to pay back their interests and loan amount on time and the probability of them defaulting.
- Moody's, is the credit **rating agency**.
- Estate **-1909 (USA)**.
- Headquarters **-Newyork(USA)**.
- In India, there are **six credit rating agencies** registered under the **Securities and Exchange Board of India (SEBI)** namely, CRISIL, ICRA, CARE, SMERA, Fitch India and Brickwork Ratings.

★ Additional Information

- Moody's Investor Services has raised India's **GDP forecast for the calendar year 2022 by 250 basis points to 9.5 per cent** .
- This also translates the growth estimate for **FY23 to 8.4 per cent**.
- While India's Economic Survey has projected India's GDP to expand between **8% and 8.5% in 2022-23**.
- The **Budget** has assumed a GDP growth between **7.6% and 8.1% in real terms**.
- India's Economic Survey has projected India's GDP to expand between **8 % and 8.5% in 2022-23**.
- The Budget has assumed a GDP growth between **7.6% and 8.1% in real terms** .
- The agency has estimated the Indian economy to clock a 6.4% growth in 2023-24.
- The 2022-23 Union Budget has prioritized growth, with a **36% increase in allocation to capital expenditure** (compared to BE of 2021-22) to 2.9% of GDP for the fiscal year 2022-23.

48. **Answer: d**

Explanation:

The correct answer is Football

★ Key Points

- VAR is a match official in association football who reviews decisions made by the referee.
- It was first written into the Laws of the Game by the International Football Association Board (IFAB) in 2021.
- Operating under the philosophy of " minimal interference, maximum benefit.
- This system seeks to provide a way for " clear and obvious errors " and " serious missed incidents " to be corrected.

★ Additional Information

- IFAB.

- The International Football Association Board (IFAB) is the body that determines the Laws of the Game of association football
- Formation- 2 June 1886.
- Headquarters- Zurich Switzerland
- secretary- Lukas brud(As of Sep 2022).



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49. Answer: d

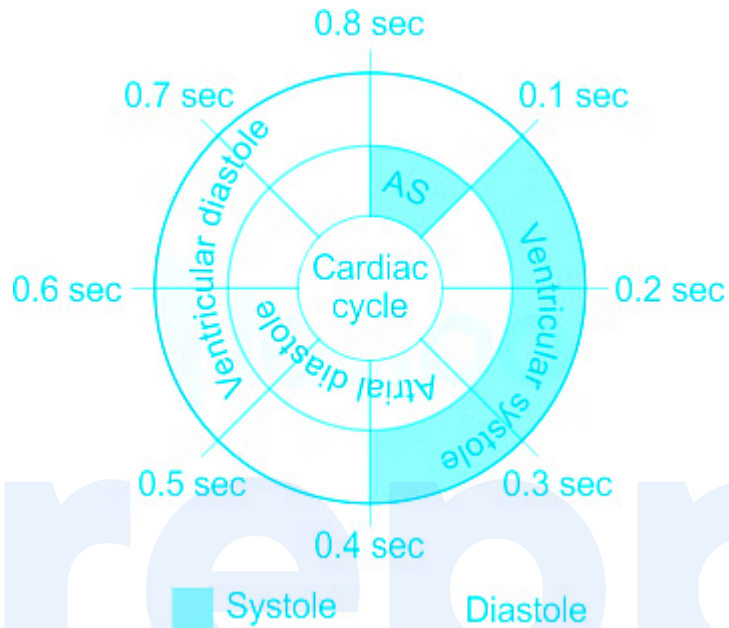
Explanation:

The correct answer is Once.

★ Key Points

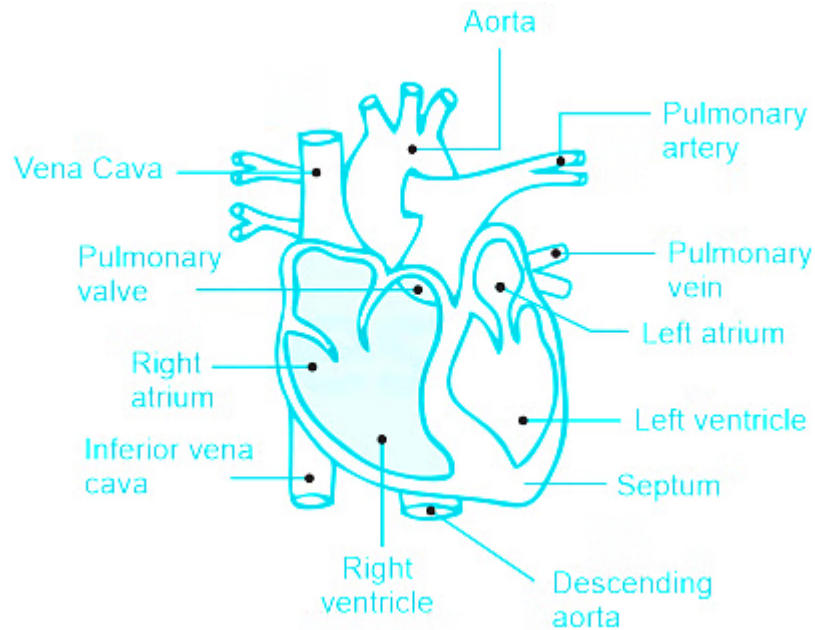
- It goes only one time because first the deoxygenated blood goes into the atrium and then into the ventricle (fish's heart has only two chambers) and gets pumped towards the gills.
- There the blood gets oxygenated and is pumped to all body parts.
- The heart of the fish has **two chambers** namely.

- Atrium
- Ventricle
- Valves between the chambers and contraction of all chambers except the bulbs maintain a unidirectional blood flow through the heart.



★ Additional Information

- Amphibians and reptiles have three-chambered hearts .
- Birds have four-chambered hearts .
- Worms and their ilk have one chamber heart .
- Humans have 4 chambered hearts .



50. Answer: a

Explanation:

The correct answer is Lewis Hamilton.

★ **Key Points**

- Lewis Hamilton was born on 7 January 1985 in Stevenage, Hertfordshire, England .
- He currently competes in **Formula One for Mercedes** (as of 2022), having previously driven for **McLaren from 2007 to 2012** .
- He began his car racing career in the **2001 British Formula Renault Winter Series, finishing fifth in the standings** .
- In 2020, Lewis Hamilton became the **most successful F1 driver with the most career wins, overtaking Michael Schumacher** .
- He became the most successful Formula One driver of all time in terms of race wins with a dominant **92nd career victory at the Portuguese Grand Prix** .



★ Additional Information

Player	Team
Max Verstappen	Red Bull Racing
Sebastian Vettel	Aston Martin Aramco Cognizant
Charles Leclerc	Scuderia Ferrari

51. Answer: a

Explanation:

Given:

Party D secured 12% of the total votes more than Party R.

If Party R got 176000 votes.

Calculation;

According to the question

$$D - 12\% = R$$

$$\Rightarrow D = R + 12\% \text{ ---(1)}$$

$$\text{Now, } D + R = 100\% \text{ ---(2)}$$

From equations (1) and (2), we have

$$\Rightarrow R + 12\% + R = 100\%$$

$$\Rightarrow 2R = 88\%$$

$$\Rightarrow R = 44\%$$

$$\text{And } D = R + 12\% = (44 + 12)\% = 56\%$$

If Party R got 176000 votes.

$$\Rightarrow 44\% = 176000$$

$$\Rightarrow 1\% = \frac{176000}{44} = 4000$$

Party D secured 12% of the total votes more.

$$\Rightarrow 12 \times 4000 = 48000$$

\therefore Party R lose the election with 48000 votes.

★ Shortcut Trick

Party D secured 12% of the total votes more than Party R.

Ratio method

$$(50 + 6) = (50 - 6)$$

$$\Rightarrow 56 : 44$$

$$\Rightarrow 14 : 11$$

$$\Rightarrow \text{Required} = 176000 \times \frac{3}{11} = 48000$$

\therefore Party R lose the election with 48000 votes.

52. Answer: b

Explanation:

Given:

The Population of a town = 5,00,000

The annual birth rate is 5 %

The annual death rate is 1 %

Calculation:

Net change = Birth rate - death rate

⇒ 5 % - 1 % = 4%

Increasing after one year = $5,00,000 \times 104 \% = 5,20,000$

Increasing after two year = $5,20,000 \times 104 \% = 5,40,800$

Increasing after three year = $5,40,800 \times 104 \% = 5,62,432$

Total population after three year 5,62,432

53. Answer: d

Explanation:

Given:

Principal = Rs.15500

Amount = Rs.19189

Time = $7/2$ years

Formula used:

$$SI = (P \times R \times T)/100$$

$$\text{Rate} = I(\text{one year})/P$$

Calculation:

$$A = P + 7/2 \times I$$

$$\Rightarrow 15500 + 7/2 \times I = 19189$$

$$\Rightarrow 7/2 \times I = 3689$$

$$I(\text{one year}) = 1054$$

$$\text{Rate} = I/P \times 100$$

$$\Rightarrow 1054/15500 \times 100$$

$$\Rightarrow 6.8\%$$

$$SI = (P \times R \times T)/100$$

$$\Rightarrow (15500 \times 6.8 \times 20)/(3 \times 100)$$

$$\Rightarrow (155 \times 68 \times 2)/3$$

$$\Rightarrow 7026.66$$

$$\Rightarrow 7027(\text{nearest})$$

\therefore The correct answer is **Rs.7027**.

54. Answer: b

Explanation:

Calculation:

LCM of 42, 44, 26, 39, and 40 is 120120

Now greatest 6 digit number is 999999

$120120 \times 7 = 840840$ (6 digits but not maximum)

$120120 \times 8 = 960960$ (6-digit maximum)

$120120 \times 9 = 1081080$ (7 digits)

Now the greatest 6-digit no which is divisible by 42, 44, 26, 39, 40 is 960960

\therefore 960960 is the greatest number 6 digit number divisible by 42, 44, 26, 39 and 40

55. Answer: d

Explanation:

Formula used:

Fourth proportional = $(B \times C) / 2$

Third proportional of = $(B \times B) / C$

Calculation:

Fourth proportional of 2, 4, 6 = $(4 \times 6) / 2$

$\Rightarrow 12$

Third proportional of 4, 8 = $(8 \times 8) / 4$

$\Rightarrow 16$

Ratio = $12 : 16 = 3 : 4$

Ration between the fourth proportional of 2, 4, 6 and the third proportional of 4, 8 = $3 : 4$

56. Answer: b

Explanation:

Given:-

$$25 - [20 - \{10 - (7 - 2)\}]$$

Concept used:-

BODMAS RULE

Calculation:-

$$\Rightarrow 25 - [20 - \{10 - (7 - 2)\}]$$

$$\Rightarrow 25 - [20 - \{10 - 5\}]$$

$$\Rightarrow 25 - [20 - 5]$$

$$\Rightarrow 25 - 15$$

$$\Rightarrow 10$$

\therefore option 2 is right.

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57. Answer: d

Explanation:

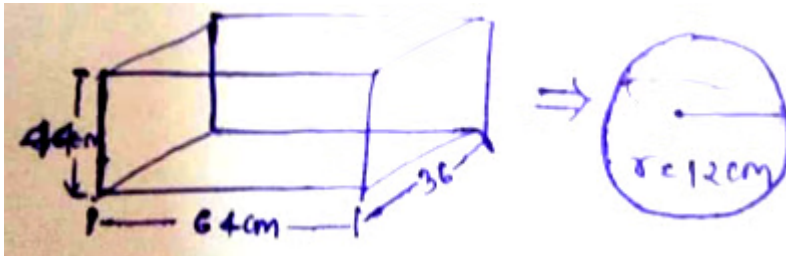
Given:-

For Cuboid-

$$(l \times b \times h) = 64 \text{ cm} \times 36 \text{ cm} \times 44 \text{ cm}$$

Radius of Solid ball = 12 cm

Formula used :-



$$\text{Volume of Cuboid} = l b h \text{ cm}^3$$

$$\text{Volume of Solid ball} = \frac{4}{3} \times \pi r^3 \text{ cm}^3$$

Calculation:-

$$\text{Volume of Cuboid} = 64 \times 36 \times 44$$

$$= 101376 \text{ cm}^3$$

$$\text{Volume of Solid ball} = \frac{4}{3} \times \frac{22}{7} \times 12^3$$

$$= 50688/7$$

$$= 7241.14 \text{ cm}^3$$

$$\therefore \text{No of balls} = (\text{Volume of Cuboid}) / (\text{Volume of Solid ball})$$

$$= 101376 / 7241.14$$

$$= 14 \text{ balls}$$

\therefore option 4 is right.

58. Answer: d

Explanation:

Given:

$$SP = \text{Rs. } 17000$$

Loss = 15%

Formula used:

$$CP = \frac{100}{100 - \text{Loss}\%} \times SP$$

$$SP = \frac{100 + \text{Gain}\%}{100} \times CP$$

Calculation:

$$CP = \frac{100}{100 - 15} \times 17000$$

$$\Rightarrow 1700000/85$$

$$CP = \text{Rs. } 20000$$

Now,

If to earn 18% profit

Then,

$$SP = \frac{100 + 18}{100} \times 20000$$

$$\Rightarrow 118 \times 200$$

$$SP = \text{Rs. } 23600$$

★ **Alternate Method**

$$SP_2 = \left[\frac{100 + \text{Profit}\%}{100 - \text{Loss}\%} \right] \times SP_1$$

$$SP_2 = \left[\frac{100 + 18}{100 - 15} \right] \times 17000$$

$$\Rightarrow (118/85) \times 17000$$

$$SP_2 = SP = \text{Rs. } 23600$$

59. Answer: d

Explanation:

Given:

A and B can complete a work in 6 days

B and C can complete the same work in 10 days

A, B and C together can complete the same work in 5 days

Concept Used:

Efficiency = Total Work Done/Total Time Required

Total work = LCM of all required number of days

Calculation:

Total Work = LCM of 6, 10, and 5 = 30 units

Efficiency of A + B = $30/6 = 5$ units/day

Efficiency of B + C = $30/10 = 3$ units/day

Efficiency of A + B + C = $30/5 = 6$ units/day

Efficiency of A = (Efficiency of A + B + C) - (Efficiency of B + C)

⇒ Efficiency of A = $6 - 3 = 3$ units/day

Efficiency of C = (Efficiency of A + B + C) - (Efficiency of A + B)

⇒ Efficiency of C = $6 - 5 = 1$ unit/day

Now efficiency of A + C = $3 + 1 = 4$ units/day

Total number of required days for A + C,

⇒ $30/4 = 7\frac{1}{2}$ days

∴ A and C can complete the work in $7\frac{1}{2}$ days.

60. Answer: d

Explanation:

Given:-

$$A = B/3$$

$$B = 2C$$

$$D = 2A/3$$

$$\text{Average of A, B, C, D} = 74$$

Formula used:-

$$\text{Average} = (\text{Sum of all Values}) / (\text{Total Number of Values})$$

Calculation:-

$$\text{Average} = (A + B + C + D) / 4$$

According to question-

$$\Rightarrow (A + B + C + D) / 4 = 74$$

$$\Rightarrow B/3 + B + B/2 + 2B/9 = 74 \times 4$$

taking LCM -

$$\Rightarrow (6B + 18B + 9B + 4B) / 18 = 296$$

$$\Rightarrow 37B = 18 \times 296$$

$$B = 5328 / 37$$

$$B = 144$$

$$A = B/3$$

$$A = 144/3$$

$$A = 48$$

$$C = B/2$$

$$C = 144/2$$

$$C = 72$$

$$\therefore C - A = 72 - 48$$

$$= 24$$

\therefore Option 4 is right .

61. Answer: c

Explanation:

Given:

Tiem = 8 hours

Speed = 55 km/hr

Formula:

Distance = speed \times time

Calculation:

Distance = $8 \times 55 = 440$ km

New speed = $55 + 25 = 80$ km/hr

New time = $440 / 80 = 5.5$ hr

Difference in time = $8 - 5.5 = 2.5$ hours

\therefore 2 hour 30 minutes can be saved

62. Answer: d

Explanation:

Given:

The number are 3, 4, 6, 15, and 20.

Concept:

The greatest 3-digit number is 999.

Calculation:

LCM of 3, 4, 6, 15, and 20 is 60.

The greatest number of 3-digits = 999

$\Rightarrow 999 \div 60$

Reminder = 39

3-digit greatest numbers = $999 - 39 = 960$

When a number is divided by 3, 4, 6, 15, and 20, the remainder in each case is 1.

So, 3-digit greatest numbers = $960 + 1 = 961$

The sum of the digits of the number = $9 + 6 + 1 = 16$

\therefore The sum of the digits of the number is 16.

63. Answer: b

Explanation:

Given :

Distance to walk 35km.

Formula Used:

Speed = Distance/Time

Calculation:

Let the speed of Sachin be x km/hr. and the speed of Prem be y km/hr.

ATQ,

$$\Rightarrow \frac{35}{x} - \frac{35}{y} = 50/60$$

$$\Rightarrow 35\left(\frac{y-x}{xy}\right) = 5/6$$

$$\Rightarrow \frac{xy}{(y-x)} = 42$$

$$\Rightarrow xy = 42(y - x) \quad \dots(1)$$

Now,

$$\Rightarrow \frac{35}{y} - \frac{35}{2x} = 3/2$$

$$\Rightarrow 35\left(\frac{2x-y}{2xy}\right) = 3/2$$

$$\Rightarrow \frac{2xy}{(2x-y)} = 70/3$$

$$\Rightarrow xy = 35/3(2x - y) \quad \dots(2)$$

Comparing eq. 1 & 2, we get,

$$\Rightarrow 42(y - x) = 35/3(2x - y)$$

$$\Rightarrow 18(y - x) = 5(2x - y)$$

$$\Rightarrow 18y - 18x = 10x - 5y$$

$$\Rightarrow 23y = 28x$$

$$\Rightarrow y = \frac{28}{23} (x)$$

Putting the value of y in eq. (1)

$$\Rightarrow x \times \frac{28}{23} x = 42 \left[\frac{28}{23} x - x \right]$$

$$\Rightarrow \frac{28}{23} x = 42 \frac{5}{23}$$

$$\Rightarrow x = \frac{(6 \times 5)}{4}$$

$$\Rightarrow x = 30/4 = 7 \frac{1}{2} \text{ km/hr.}$$

\therefore The speed of Sachin is $7 \frac{1}{2}$ km/hr.

64. Answer: c

Explanation:

Given:

Cost price = Rs.1545

Cost price is 25% below Market Price

Discount = 18%

Formula used:

$$\text{Profit} = (\text{SP} - \text{CP}) / \text{CP} \times 100$$

Calculation:

Cost price = Rs.1545

Since,

CP is 25% less than SP, (25% = 1/4)

$$\Rightarrow 1545/3 = 515$$

$$\therefore MP = 515 \times 4$$

$$\Rightarrow \text{Rs.}2060$$

$$\text{Discount} = 18\% \quad (18\% = 9/50)$$

$$\Rightarrow 2060/50 = 41.2$$

$$\Rightarrow SP = 41.2 \times 41$$

$$\Rightarrow \text{Rs.}1689.2$$

$$\text{Profit} = (1689.2 - 1545)/1545 \times 100$$

$$\Rightarrow 9.33$$

\therefore The correct answer is **9.33**.

65. Answer: a

Explanation:

Given:

Nine umbrellas are bought for Rs. 800

$$CP = \text{Rs. } 800$$

Formula used:

$$\text{Profit \%} = [(SP - CP) \times 100] / CP$$

Calculation:

$$\Rightarrow 7 \text{ umbrellas are sold for Rs. } 800$$

$$\therefore 9 \text{ umbrellas are sold} = (800/7) \times 9 = \text{Rs. } 1028.52$$

Then,

$$SP = \text{Rs. } 1028.52$$

$$\text{Profit \%} = [(SP - CP) \times 100] / CP$$

$$\Rightarrow [(1028.52 - 800) \times 100] / 800$$

$$\Rightarrow 22852 / 800$$

$$\Rightarrow 28.57\%$$

\therefore The gain percentage is 28.57%

66. Answer: b

Explanation:

Given:

$$\frac{18 \times 4 \div 2 \text{ of } 3 - 4}{2 \times (9 - 7) + 1 - 2 \times 3 \div 4 \text{ of } \frac{1}{2}}$$

Concept:

Follow the BODMAS rule according to the table given below:

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

Calculation:

$$\frac{18 \times 4 \div 2 \text{ of } 3 - 4}{2 \times (9 - 7) + 1 - 2 \times 3 \div 4 \text{ of } \frac{1}{2}}$$

$$\Rightarrow \frac{18 \times 4 \div 2 \times 3 - 4}{2 \times 2 + 1 - 2 \times 3 \div 4 \times \frac{1}{2}}$$

$$\Rightarrow \frac{18 \times 4 \times \frac{1}{6} - 4}{4 + 1 - 2 \times 3 \times \frac{1}{2}}$$

$$\Rightarrow \frac{(12 - 4)}{(5 - 3)}$$

$$\Rightarrow \frac{8}{2} = 4$$

∴ The correct answer is 4.

67. Answer: c

Explanation:

Calculation:

Let, The total tax to be paid by Rahul is x

After deducted tax

Rahul paid as tax = 100 - 60 = 40%

Then,

$$\frac{x \times 40}{100} = 12800$$

$$x = 1280000/40$$

$$x = \text{Rs. } 32000$$

∴ The total tax to be paid by Rahul is Rs. 32000

68. Answer: b

Explanation:

Given:

The average of seven odd numbers is 79

Concept used:

Average = Sum of the total quantity/ Number of quantity

Odd number: - A number that is not divisible by two is called an odd number

Example: 1,3,5,7,9,11 etc

Calculation:

Let, First odd number = x

Then next odd numbers : $x + 2, x + 4, x + 6, x + 8, x + 10, x + 12$

Average of seven odd numbers = $[x + x + 2 + x + 4 + x + 6 + x + 8 + x + 10 + x + 12]/ 7$

$$\Rightarrow 79 = [x + x + 2 + x + 4 + x + 6 + x + 8 + x + 10 + x + 12]/ 7$$

$$7x + 42 = 79 \times 7$$

$$7x = 553 - 42$$

$$x = 511/7$$

$$x = 73$$

Average of first five odd numbers = $[73 + 75 + 77 + 79 + 81]/5$

$$\Rightarrow 385/5$$

$$\Rightarrow 77$$

\therefore The average of the first five odd numbers is 77.

69. Answer: d

Explanation:

Given:

The manufacturer gains = 12%

wholesale dealer gain = 10%

the retailer gain = 15%

Calculation:

Let the cost of production be Rs P

As per the question,

$$\Rightarrow \frac{112}{100} \times \frac{110}{100} \times \frac{115}{100} \times P = 56672$$

$$\Rightarrow \frac{1771}{1250} \times P = 56672$$

$$\Rightarrow P = 40000$$

So, the cost price of item = 40000

70. Answer: b

Explanation:

Given:-

Rate of interest = 8%

Principal = 1,40,000

Time = 1 year

Formula used:-

$$SI = (P \times R \times T)/100$$

Calculation:-

$$SI = (140000 \times 8 \times 1)/100$$

$$SI = 1400 \times 8$$

$$SI = \text{Rs.}11200$$

According to question-

For 20 equal scholarships-

$$\text{Scholarship Amount} = 11200/20$$

$$\text{Scholarship Amount} = \text{Rs. } 560$$

\therefore option 2 is Right.

71. **Answer: c**

Explanation:

Given:

The ratio of the market price of wheat is 3 : 8

The ratio of the quantities consumed is 4 : 9

Formula used:

$$\text{Expenditure} = \text{Price} \times \text{Quantity}$$

Calculation:

Let the market price of wheat are $3x$ and $8x$

And quantities consumed are $4y$ and $9y$

Now the ratio of the expenditure is $(3x) \times (4y) : (8x) \times (9y)$

$$\Rightarrow 12xy : 72xy$$

⇒ 1 : 6

∴ The required ratio is 1 : 6.

72. Answer: d

Explanation:

Given:

Cost of one chair = Rs.450

Cost of 10 chairs for Ravi = Rs.3825

Formula used:

$$\text{Discount} = \frac{(\text{MP} - \text{SP})}{\text{MP}} \times 100$$

Calculation:

$$\text{MP} = \text{Rs.}450 \times 10 = \text{Rs.}4500$$

$$\text{SP of 10 chairs} = \text{Rs.}3825$$

$$\text{Discount} = \frac{(4500 - 3825)}{4500} \times 100$$

$$\Rightarrow \frac{675}{4500} \times 100$$

$$\Rightarrow \frac{675}{45}$$

$$\Rightarrow 15$$

∴ The correct answer is **15%**.

73. Answer: c

Explanation:

Given:

$$\text{Area} = 154 \text{ cm}^2$$

$$L(\text{Length}) - B(\text{Breadth}) = 3 \text{ cm}$$

Formula used:

$$\text{Area of Rectangle} = L \times B$$

Calculation:

$$L - B = 3 \text{ cm (Given)}$$

$$\Rightarrow L = B + 3$$

$$\Rightarrow 154 = B \times (B + 3)$$

$$\Rightarrow B^2 + 3B - 154 = 0$$

$$\Rightarrow B^2 + 14B - 11B - 154 = 0$$

$$\Rightarrow B(B + 14) - 11(B + 14) = 0$$

$$\Rightarrow (B + 14)(B - 11) = 0$$

$$\Rightarrow B = -14, 11(\text{Correct value})$$

$$\Rightarrow L = 11 + 3$$

$$\Rightarrow L = 14 \text{ cm}$$

\therefore The correct answer is **14** cm.

★ **Important Points:**

1. Here in the above solution we took length as the longer side.
2. Similarly, Breadth can also be considered as a longer side.
3. In both cases the answer will be the same.

74. Answer: d

Explanation:

Given:

A bag contains coins of denominations Rs. 1, Rs. 2, and Rs. 5 only in the ratio of 12 : 5 : 3.

Calculation:

Let the count of coins of Rs. 1, Rs. 2, and Rs. 5 can be $12x$, $5x$, and $3x$ respectively.

Now from the first statement, it is clear that

$$\Rightarrow 12x \times 1 + 5x \times 2 + 3x \times 5 = 3,626$$

$$\Rightarrow 37x = 3626$$

$$\Rightarrow x = 98$$

The number of coins of Rs. 5 = $3x$

$$\Rightarrow 3 \times 98 = 294$$

\therefore The number of coins of Rs. 5 in the bag is 294

75. Answer: b

Explanation:

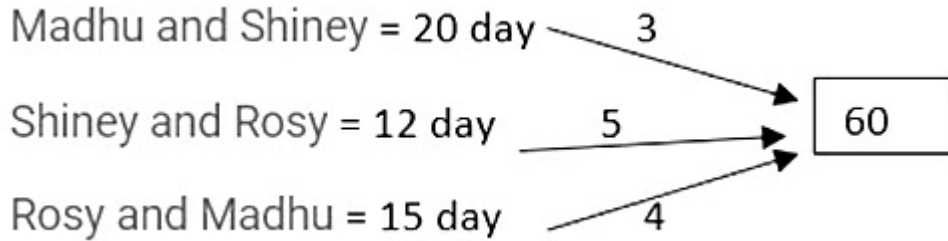
Given:

Madhu and Shiney can complete a piece of work in 20 days

Shiney and Rosy can complete the work in 12 days

Rosy and Madhu can complete the work in 15 days

Calculation:



Total work = 60 unit

total efficiency = Madhu + Shiney + Shiney + Rosy + Rosy + Madhu = 3 + 5 + 4

$\Rightarrow 2 (\text{Madhu} + \text{Shiney} + \text{Rosy}) = 12$

$\Rightarrow \text{Madhu} + \text{Shiney} + \text{Rosy} = 6$

So the efficiency of Madhu, Shiney and Rosy is 6

\therefore When they work together, They complete the work in = $\frac{60}{6} = 10$ days

76. Answer: c

Explanation:

The correct answer is: **impact**

★ Key Points

- Let's look at the meaning of the given words:
 - **Shock** means to cause an unpleasant feeling of surprise in somebody.
 - **Import** means to bring from a foreign or external source.
 - **Impact** means an effect or impression.
 - **Relief** means the removal or reduction of pain, worry, etc.
- As per the meaning of the given words. **Impact** is the most appropriate option to fill in the blank.
- Therefore, the correct answer is **option 3**.

- **Corrected sentence:** *Last week, I saw a TV programme about the impact of global warming on agriculture.*

77. **Answer: b**

Explanation:

The erroneous part of the sentence is: **and was impossible**

★ **Key Points**

- We have to add "it" before and to make the sentence correct.
- **It** is the third-person singular personal pronoun. It is often used to refer to animals or non-living things.
- We commonly use the pronoun **it** as both a subject and an object pronoun:
- **Example -**
 - *Don't drink the milk. **It** smells terrible.*
 - ***It** was cold, so we lit a fire.*
- Without "it" the given sentence does not make any sense.
- So, the correct answer is **option 2**.
- **Corrected sentence:** *The music blared out and it was impossible to have a conversation.*

78. **Answer: a**

Explanation:

The erroneous spelling is: **Auxillary**.

★ **Key Points**

- The correct spelling should be ' **Auxiliary** '.
- Auxiliary means something that helps by providing backup or support.

- Example – *The hospital has an **auxiliary** power system in case of a blackout.*
- Therefore, the correct answer is option 1 which is incorrectly spelt.

★ Additional Information

- **Capillary** means any of the smallest tubes in the body that carry blood.
- **Ancillary** means providing necessary support to the main work or activities of an organization.
- **Corollary** means a situation, a statement or a fact that is the natural and direct result of another one.

79. Answer: b

Explanation:

The correct answer is: Damage caused by use.

★ Key Points

- "**Dig up dirt on someone**" means searching for any information about someone that may damage their reputation.
 - Example – *They hired a detective firm to dig up dirt on their rival.*
- So, it is clear that the most appropriate meaning of the given idiom "Dig up dirt on someone" is "**Discover damaging information about someone**"
- Hence, the correct answer is option 2.

80. Answer: c

Explanation:

The correct answer is: **Gynaecologist**

★ Key Points

- **Gynaecologist** means a doctor skilled in the treatment of women's diseases, especially those of the reproductive organs.
 - Example - *Gail said her **gynecologist** tells her all the abnormal cells are gone for now.*
- So, it is clear that the 'Gynaecologist' can be used as a one-word substitute for '**One who treats female ailments**'

Therefore, the correct answer is option 3 .

★ Additional Information

- **Neurologist** means a medical doctor who specializes in treating diseases of the nervous system.
- **Chiropodist** means the study and treatment of problems and diseases of people's feet.
- **Psychiatrist** means a doctor who is trained to treat people with mental illness.

81. Answer: c

Explanation:

The correct answer is: **Ancient**

★ Key Points

- **Ancient** means belonging to a period of history that is thousands of years in the past.
 - Example - They believed **ancient** Greece and Rome were vital sources of learning.
- So, it is clear that the 'Ancient' can be used as a one-word substitute for '**Belonging to very distant past and no longer in existence**'
- Therefore, the correct answer is option 3 .

82. Answer: d

Explanation:

The correct answer is: **To be hired**

★ Key Points

- "To land a job" means to successfully acquire something, such as a job or piece of information.
 - Example - *As soon as I **land a job** and start to bring in some money, I'm going to get a stereo.*
- So, it is clear that the most appropriate meaning of the given idiom "To land a job" is "To be hired"
- Hence, the correct answer is option 4.

83. Answer: d

Explanation:

The correct answer is: **Picky**

★ Key Points

- **Choosy** means difficult to please because they will only accept something if it is exactly what they want or if it is of very high quality.
 - Example - *You can't be too **choosy** if you want a job right away.*
- Marked option **Picky** means liking only certain things and difficult to please.
 - Example - *I'm not sure if she is pregnant, but recently she's been extremely **picky** with food and doesn't eat much.*
- It is clear that 'Choosy' and 'Picky' are similar in meaning.

Therefore the correct answer is option 4 .

★ Additional Information

- **Precious** means of very great value or worth.
- **Critical** means inclined to criticize severely and unfavorably.

- **Boring** means not at all interesting; dull.

84. Answer: b

Explanation:

The correct answer is: **Unfaithful**

★ Key Points

- **Treacherous** is used about a person that means you cannot trust and who may do something to harm you.
 - Example – *He was weak, cowardly and **treacherous**.*
- Marked option **Unfaithful** means not adhering to vows, allegiance, or duty: disloyal.
 - Example – *James had been **unfaithful** to Christine for the entire four years they'd been together.*
- It is clear that 'Treacherous' and 'Unfaithful' are similar in meaning.
- Therefore the correct answer is option 2.

★ Additional Information

- **Retarded** means characterized by a slowness or limitation in intellectual understanding and awareness.
- **Sluggish** means moving or operating more slowly than usual and with less energy or power.
- **Steadfast** means staying the same for a long time and not changing quickly or unexpectedly.

85. Answer: d

Explanation:

The correct answer is: **Festal**

★ Key Points

- Festal means relating to or characteristic of a celebration or festival.
 - Example - *Plum pudding was originally served on **festal** days as the main course.*
- So, it is clear that the 'Festal' can be used as a one-word substitute for 'Relating to a festival'
- Therefore, the correct answer is option 4 .

★ Additional Information

- **Festoon** means decorating a room or other place for a special occasion by hanging coloured paper, lights, or flowers around it, especially in curves.
- **Fulvous** means a dull brownish yellow: tawny.
- **Frenzy** means a state of great emotion or activity that is not under control.

86. Answer: a

Explanation:

The correct answer is: **the closest**

★ Key Points

- 'More' is considered a comparative form
- 'More' refers to a larger amount or degree
 - **Example** - *She advised him to be **more** careful.*
- 'Most' is considered a superlative form
- 'Most' refers to the largest amount or degree.
 - **Example** - *You are the **most** beautiful woman I have ever seen.*
- In the given sentence, **Closest** itself is a **superlative adjective** , So we should not use two superlatives in one sentence.
- **The** is used to refer to specific or particular nouns.
 - **Example** - *Where is **the closest** Mexican restaurant?*

Therefore the correct answer is **option 1** .

Corrected sentence: *Which planet is the closest to the sun?*

87. Answer: b

Explanation:

The erroneous part of the sentence is: **of those men have**

★ Key Points

- Replace "have" with "has" to make the sentence correct.
- **Subject-Verb Agreement:** The basic rule states that a singular subject takes a singular verb while a plural subject takes a plural verb.
- "One" is the subject, so "has" is the verb.
- One is a singular subject so "has" should be used as a singular verb.
- "One or the other of those men" refers to one of a group and is singular. So we must use "has," not "have."
 - **Example** – *One of the children **has** brought a tarantula to the picnic.*

Therefore, the correct answer is **option 2**.

Corrected sentence: *One or the other of those men has stolen my grandfather's umbrella.*

88. Answer: b

Explanation:

The correct answer is: **lest you should fail**

★ Key Points

- **Lest** is used in order to prevent any possibility that something will happen.
 - **Example** – *He fled the country **lest** he be captured.*

- The conjunction " **lest** " is not very common in modern English. This word has a **negative meaning** . Therefore, it **should not be used with not** .
- Therefore, the correct answer is **option 2** .
- **Corrected sentence:** *Work hard lest you should fail.*

89. Answer: c

Explanation:

The correct answer is: **is the capital of the**

★ **Key Points**

- Replace 'a' with '**the**' to make the sentence correct.
- The **definite article (The)** is used before a noun to indicate that the identity of the noun is known to the reader.
- The **indefinite article (A, An)** is used before a noun that is general or when its identity is not known.
- **Example -**
 - *We live in a city.* [Here we use the indefinite article (**A, An**) because we are not referring to any particular city.]
 - *The city (Kolkata) is very big.* [Here we use the definite article (**The**)]
- Because we are referring to a particular city in the given sentence so "**The**" should be used.

Therefore, the correct answer is **option 3**.

Corrected sentence:*Kolkata is **the** capital of the Indian state of West Bengal.*

90. Answer: d

Explanation:

The erroneous part of the sentence is: **comes the trained doctors**

★ Key Points

- Use "**came**" instead of "**comes**" to make the sentence correct.
- As we can see in the given sentence "**Led**" is used as it is the correct way to spell the **past tense of lead** .
- From here we understand the **sentence should be in past tense completely**.
- The past tense or simple past tense of come is " **came** ."
- "**Comes**" is used as the 3rd person present form.
- **Example** -
 - *He daily **comes** to school by car.*
 - *She **came** downstairs with a letter in her hand.*

Therefore, the correct answer is **option 4**.

Corrected sentence: *Here into the main campus of the hospital **came** the trained doctors led by the Principal.*

91. **Answer: a**

Explanation:

The correct answer is: **Caught**

★ Key Points

- Let's look at the meanings of the given words:
 - **Caught** means Capturing or taking possession of things.
 - **Gasped** means to take a short, quick breath through the mouth.
 - **Shook** means the feeling when someone saw or heard something that makes him/her feel excited or you feel blessed about it.
 - **Clicked** means to emit or make a slight, sharp sound, or series of such sounds.
- From the above meanings, we can say that "**caught**" is the most appropriate option to fill in the blank.
- Here, in the given sentence ' **caught** ' is used to say that, *She held her breath.*

Therefore, the correct answer is **option 1**.

Complete sentence: She caught her breath, surprised by the suddenness of the question.

92. Answer: d

Explanation:

The correct answer is: **Configuration**

★ Key Points

- **Configuration** means the way in which the parts of something, or a group of things, are arranged.
 - **Example** – *Geographers study the **configuration** of the mountains.*

Therefore, the correct answer is **option 4**, which is spelt correctly.

The rest of the options are misspelt.

93. Answer: b

Explanation:

The correct answer is: **well-being**

★ Key Points

- Let's look at the meaning of the given words:
 - **Profit** means the amount of money that a business earns above what it costs to produce and sell goods and services.
 - **Well-being** means the state of feeling healthy and happy.
 - **Benefit** means to produce a good or useful effect.

- Advantage means specially favourable to success, interest, or any desired end.
 - As per the meaning of the given words. **well-being** is the most appropriate option to fill in the blank.
 - Therefore, the correct answer is option 2 .
 - Corrected sentence: *A doctor's first concern is the well-being of his patients.*
-

94. Answer: a

Explanation:

The correct answer is: **Repulsion**

★ Key Points

- **Allure** means to attract or tempt by something flattering or desirable.
 - Example - *Rewards **allure** men to brave danger.*
- Marked option **Repulsion** means a strong feeling of not liking something that you find extremely unpleasant.
 - Example - *She gave a dramatic shudder of **repulsion**.*
- It is clear that 'Allure' and 'Repulsion' are opposite in meaning.
- Therefore the correct answer is option 1.

★ Additional Information

- **Charm** means a quality that pleases and attracts people
 - **Appeal** means to make a serious request for something you need or want very much.
 - **Magic** means the skill of performing tricks to entertain people.
-

95. Answer: b

Explanation:

The correct answer is: **Disobedient**

★ Key Points

- **Obedient** means obeying or willing to obey.
 - *Example - As a child, he was always **obedient** to his parents.*
- Marked option **Disobedient** means refusing or failing to obey.
 - *Example - The parents punished their **disobedient** child.*
- It is clear that 'Obedient' and 'Disobedient' are opposite in meaning.
- Therefore the correct answer is option 2.

★ Additional Information

- **Voluntary** means to do or work without payment.
- **Flexible** means that can be changed easily.
- **Willing** means being happy to do something, or having no reason for not doing something.

96. **Answer: c**

Explanation:

The correct answer is: **attraction**

★ Key Points

- Let's take a look at the meaning of the given words.
 - **Attention** means the act or the power of fixing the mind on something.
 - **Addiction** means a compulsive, chronic, physiological or psychological need for a habit-forming substance, behaviour, or activity.
 - **Attraction** means something that is interesting or enjoyable.
 - **Invitation** means a request, a solicitation, or an attempt to get another person to join you at a specific event.
- As per the given meaning of the words " **attraction** " is the most appropriate option to fill the blank.

- The implied meaning of the given sentence is that "Another draw for visitors to Jammu & Kashmir is a floating post office on Dal Lake."

Therefore, the correct answer is **option 3**.

Complete passage: Tourists to Jammu and Kashmir have another (1) attraction – a floating post office on the Dal Lake (2) _____ on a carved maroon houseboat. It is fastened (3) _____ the western edge of the Dal Lake. It (4) _____ all regular postal services while being (5) _____ on the lake.

97. Answer: b

Explanation:

The correct answer is: **built**

★ Key Points

- Let's take a look at the meaning of the given words.
 - **Assembled** means to fit the parts of something together.
 - **Built** is used for describing the size and shape of something, especially a building or structure.
 - **Produced** means to create something or bring it into existence.
 - **Completed** means to finish something; to bring something to an end.
- As per the given meaning of the words " built " is the most appropriate option to fill the blank.
- The implied meaning of the given sentence is "Amaroon houseboat-style floating post office is built on the Dal Lake."

Therefore, the correct answer is option 2.

Complete passage: Tourists to Jammu and Kashmir have another (1) attraction – a floating post office on the Dal Lake (2) built on a carved maroon houseboat. It is fastened (3) _____ the western edge of the Dal Lake. It (4) _____ all regular postal services while being (5) _____ on the lake.

98. Answer: c

Explanation:

The correct answer is: to

★ Key Points

- Let's take a look at the use of the given prepositions.
 - "In" is used to indicate location or position within or inside something.
 - "By" is used to show how something is done.
 - "To" is used as a preposition to indicate a destination or direction
 - "Of" is used for something that belongs to or relates to something else or to reference something.
- As per the given uses of the prepositions " to " is the most appropriate option to fill the blank.
- The implied meaning of the given sentence is "It is attached to the Dal Lake's western shore."

Therefore, the correct answer is option 3.

Complete passage: *Tourists to Jammu and Kashmir have another (1) attraction – a floating post office on the Dal Lake (2) built on a carved maroon houseboat. It is fastened (3) to the western edge of the Dal Lake. It (4) _____ all regular postal services while being (5) _____ on the lake.*

99. Answer: c

Explanation:

The correct answer is: **offers**

★ Key Points

- Here we need to understand what is a **Subject-Verb agreement**.

- The basic rule states that **a singular subject takes a singular verb while a plural subject takes a plural verb.**
- We use "**offered**" when we are talking about the **past and it is no longer present** in the current situation.
- When we should use "**offer**" and "**offers**" depends on what is doing the offering.
 - If the platform is doing the offering, then the platform is singular so it **offers**.
 - If the technology and software are doing the offering, then they are plural and so they **offer**.
- "**Has offered**" is used in **Past perfect** tense when a verb tense is used to talk about actions that were completed before some point in the past.
- Here, in the given sentence we are talking about a particular thing that is **The Dal Lake**, so "**offers**" should be used as it is a continuous process.

Therefore, it is clear that **option 3** is the correct answer.

Complete passage: *Tourists to Jammu and Kashmir have another (1) attraction – a floating post office on the Dal Lake (2) built on a carved maroon houseboat. It is fastened (3) to the western edge of the Dal Lake. It (4) offers all regular postal services while being (5) _____ on the lake.*

100. Answer: a

Explanation:

The correct answer is: afloat

★ Key Points

- Let's take a look at the meaning of the given words.
 - Afloat means on the surface of the water; not sinking.
 - Boating means travelling on a lake or river in a small boat for pleasure.
 - Floating means to stay or move easily on or over the surface of a liquid.
 - Ashore means toward or onto land from an area of water.

- As per the given meaning of the words " afloat " is the most appropriate option to fill the blank.
- The implied meaning of the given sentence is " **while it is floating on the lake** "

Therefore, the correct answer is option 1.

Complete passage: *Tourists to Jammu and Kashmir have another (1) attraction– a floating post office on the Dal Lake (2) built on a carved maroon houseboat. It is fastened (3) to the western edge of the Dal Lake. It (4) offers all regular postal services while being (5) afloat on the lake.*

★ Confusion Points

- Though "afloat" and "floating" are similar in meaning.
- We cannot use "being + main verb + ing" in a sentence.

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