

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



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC GD Constable 2021 (English) Prev. Year Paper (30-Nov-2021) (Shift 2)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence 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

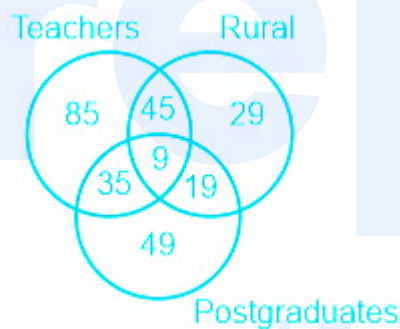
- 1.) A total of 90 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper 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. 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. HAA
- b. UHH
- c. OFF
- d. IXX

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



What is the number of teachers who are NEITHER rural NOR postgraduates?

- a. 45
- b. 85
- c. 35
- d. 9

3. In an imaginary mathematical system, P denotes subtraction, Q denotes division, R denotes addition and S denotes multiplication. All other rules of (+1, -0.25)

mathematics are the same as in the existing system. What is the value of the given expression?

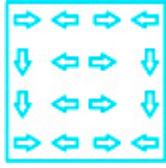
106 R 115 Q 23 S 7 P 19

- a. 154
- b. 87
- c. 45
- d. 122

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



- a.
- b.
- c.



d.

5. Two different positions of the same dice marked with the letters F, G, P, Q, R (+1, -0.25) and S are shown.

Select the letter that will be on the face opposite to the face having the letter 'G'.



- a. R
- b. F
- c. Q
- d. S

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

GBL, JEO, MHR, ?

- a. QJV
- b. OJB
- c. PKU
- d. QKW

7. 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)

i. Declaim

ii. Decline

iii. Decisive

iv. Declare

v. Decode

a. i, iv, ii, iii, v

b. i, ii, iv, iii, v

c. v, iii, iv, ii, i

d. iii, i, iv, ii, v

8. 'A × B' means 'A is the brother of B'. 'A - B' means 'A is the mother of B'. 'A ÷ B' means 'A is the father of B'. Which of the following means 'M is the son of Q'? (+1, -0.25)

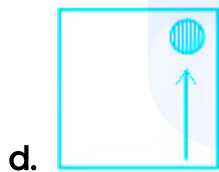
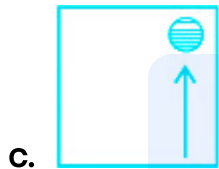
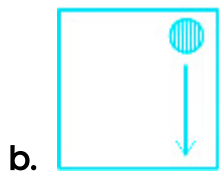
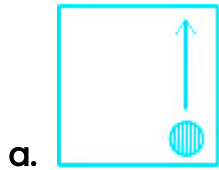
a. $M \times R \div Q$

b. $Q \div M \times R$

c. $M \div R \times Q$

d. $M - R \div T$

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



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

PRINT : RNTPI :: LEMON : ?

- a. ELOMN
- b. LNEMO
- c. EONLM
- d. MLNOE

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

_ b _ p p p _ q p _ p b _ p _

a. b q b p b p

b. p b q p b q

c. p q b p q p

d. p q p p q b

12. In a certain code language, 'REACH' is coded as 85139 and 'SUN' is coded as 264. How will 'SEARCH' be coded in that language? (+1, -0.25)

a. 251839

b. 253819

c. 258139

d. 253189

13. Seven friends, L, M, N, O, P, Q and R, are sitting around a circular table, with their backs towards the centre. L is sitting to the immediate right of P. M is not the neighbour of P. O is sitting third to the left of L. Q is sitting between R and O. Who is sitting to the immediate right of L? (+1, -0.25)

a. N

b. M

c. Q

d. R

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

144, 289, 484, ?, 1024

- a. 625
 - b. 725
 - c. 676
 - d. 729
-

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

5	12	?
11	19	25
26	55	79

- a. 22
 - b. 17
 - c. 20
 - d. 18
-

16. When 12 is added to a number, it is equal to 2 times the sum of 4 and the number. Find the number. (+1, -0.25)

- a. 10
- b. 5
- c. 8
- d. 4

17. In a certain code language, 'SPIRIT' is written as 'WKMIMG'. How will 'GLOBAL' be written in that language? (+1, -0.25)

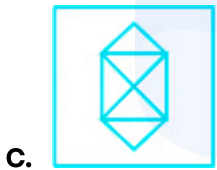
- a. GTYOOX
- b. GOTYXO
- c. KOSYEO
- d. KSOEYO

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



- a. LBIANGTE
- b. LBIANGTE
- c. ELNIAIT
- d. ELNIAIT

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



20. 'Patna' is related to 'Bihar' in the same way as 'Dispur' is related to '-----'. (+1, -0.25)

- a. Nagaland
- b. Mizoram
- c. Meghalaya

d. Assam

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

Statements:

All laptops are monitors.

All monitors are TVs.

Conclusions:

1. All monitors are laptops.

2. Some TVs are monitors.

3. No monitor is a laptop.

- a. Only conclusion 2 follows
- b. Only conclusion 1 follows
- c. Only conclusion 3 follows
- d. Both conclusions 2 and 3 follow

-
22. In a certain code language, 'go went gone' is written as 'da ma dof', 'he had gone' is written as 'ga dol ma', and 'he was good' is written as 'na ga ca'. How will 'had' be written in that language? (+1, -0.25)

a. ca

b. ga

- c. dol
 - d. ma
-

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

3, 35, 99, 195, ?

- a. 323
 - b. 225
 - c. 325
 - d. 299
-

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

54 : 9 :: ? : 7

- a. 56
 - b. 62
 - c. 42
 - d. 60
-

25. Seven friends, M, N, O, P, Q, R and S, are sitting in a straight line, all facing towards the north. N is sitting at the middle position. M is sitting between Q and P. Q is sitting to the immediate left of N. S is sitting to the (+1, -0.25)

immediate left of O. M and O are not sitting at any of the ends. Who is sitting at the right end?

- a. R
- b. Q
- c. N
- d. P

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General Knowledge and General Awareness

26. Who among the following is the founder of Fit India movement? (+1, -0.25)

- a. Kiren Rijju
- b. Amit Shah
- c. Narendra Modi
- d. Suparno Satpathy

27. Who among the following Australian cricketers won the Allan Border Medal 2020? (+1, -0.25)

- a. Cameron Green
- b. Glenn Maxwell
- c. David Warner
- d. Pat Cummins

28. Pressure is equal to thrust divided by _____ (+1, -0.25)

- a. area
- b. mass
- c. Force
- d. length

29. Jallikattu is a _____ held mainly in Tamil Nadu. (+1, -0.25)

- a. kite flying festival
 - b. candle lighting festival
 - c. bull taming festival
 - d. buffalo fighting festival
-

30. A kharif crop used both as food and fodder is: (+1, -0.25)

- a. jowar
 - b. bajra
 - c. maize
 - d. wheat
-

31. Which of the following movements against the British has been INCORRECTLY matched with its leader? (+1, -0.25)

- a. Paika Rebellion - Bakshi Jagabandhu
 - b. Pagal Panthi Revolt - Tirot Sing
 - c. Kol Uprising - Buddhu Bhagat
 - d. Ahom Revolt - Gomdhar Konwar
-

32. Through the Royal Titles Act (1876), Queen Victoria assumed the title of 'Kaiser-i-Hind' or Queen Empress of India. Who was the Viceroy of British India when Queen Victoria assumed the title 'Kaiser-i-Hind'? (+1, -0.25)

- a. Lord Canning

- b. Lord Ripon
 - c. Lord Lansdowne
 - d. Lord Lytton
-

33. Manika Batra is famous as an Indian _____ . (+1, -0.25)

- a. basketball player
 - b. swimmer
 - c. table tennis player
 - d. athlete
-

34. India and Bangladesh are the leading producers of _____ . (+1, -0.25)

- a. jute
 - b. millet
 - c. coffee
 - d. tea
-

35. The Ministry of Information and Broadcasting announced _____ as (+1, -0.25)
the new President of the Film and Television Institute of India in
September 2020.

- a. Mahesh Bhatt
- b. Anupam Kher

- c. Gajendra Chauhan
 - d. Shekhar Kapur
-

36. Which of the following compounds contains an ionic bond? (+1, -0.25)

- a. CHCl_3
 - b. NaCl
 - c. N_2
 - d. CH_4
-

37. In November 2020, who among the following inaugurated the 'Lilawati Awards', which is an initiative of All India Council for Technical Education? (+1, -0.25)

- a. Rajiv Kumar
 - b. Amit Shah
 - c. Harsh Vardhan
 - d. Ramesh Pokhriyal 'Nishank'
-

38. Which of the following types of goods is defined as 'the goods that are identical, similar or comparable to another product, in the eyes of the consumer, such that they can either fully or partly satisfy the same needs of the consumer'? (+1, -0.25)

- a. Capital goods
- b. Intermediate goods

- c. Substitute goods
 - d. Consumer goods
-

39. Which of the following grasslands are present in North America? (+1, -0.25)

- a. Prairies
 - b. Steppes
 - c. Pampas
 - d. Downs
-

40. What is the maximum number of electrons that can be accommodated in the 'N' shell of an atom? (+1, -0.25)

- a. 24
 - b. 8
 - c. 4
 - d. 32
-

41. The language of administration under the Delhi Sultans was: (+1, -0.25)

- a. Urdu
 - b. Persian
 - c. Turkish
 - d. Sanskrit
-

42. How many members represent Himachal Pradesh in the 17th Lok Sabha as of 22 November 2020? (+1, -0.25)
- a. 12
 - b. 6
 - c. 4
 - d. 8
-

43. Which among the following monuments is in Rajasthan? (+1, -0.25)
- a. Ujjayanta Palace
 - b. Hawa Mahal
 - c. Bara Imambara
 - d. Bibi Ka Maqbara
-

44. Nizam-ul-Mulk Asaf Jah, the founder of Hyderabad state, was the most powerful member at the court of the _____ Farrukh Siyar. (+1, -0.25)
- a. Mughal Emperor
 - b. Gupta Emperor
 - c. Khalji Emperor
 - d. Rajput Emperor
-

45. World Pneumonia Day is observed on: (+1, -0.25)
-

- a. 18 December
 - b. 5 September
 - c. 12 November
 - d. 15 October
-

46. Which of the following was NOT the theme for Union Budget 2020-21? (+1, -0.25)

- a. Develop a Caring Society
 - b. Aspirational India
 - c. Economic Development for All
 - d. Education for All
-

47. _____ became the first Indian to win the Fed Cup Heart Award 2020 for Asia/Oceania zone, for her successful return to the court post motherhood. (+1, -0.25)

- a. Ankita Raina
 - b. Riya Bhatia
 - c. Sania Mirza
 - d. Rutuja Bhosale
-

48. Which of the following statements about the Equal Remuneration Act of 1976 is INCORRECT? (+1, -0.25)

- a. It applies to certain parts of India.

- b. It is a Central Legislation.
- c. It provides for prevention of discrimination against women at workplace.
- d. It provides for payment of equal remuneration to men and women, in the matter of employment.

49. Malala Yousafzai is the youngest Nobel Peace Prize Laureate, having being awarded the prize when she was only 17 years old. In which year was she awarded this Nobel Peace Prize? (+1, -0.25)

- a. 2016
- b. 2019
- c. 2018
- d. 2014

50. India completed the 50th anniversary of bank nationalisation programme in _____. (+1, -0.25)

- a. 2019
- b. 2020
- c. 2017
- d. 2015

Elementary Mathematics

51. The compound interest on a certain sum for 2 years at 10% per annum is Rs. 651 (interest compounded yearly). The simple interest on the same sum for double the time at half the rate of interest per annum is: (+1, -0.25)
- a. Rs. 600
- b. Rs. 630
- c. Rs. 520
- d. Rs. 620
-
52. A and B undertake to do a job for Rs. 6,000. A can do it in 10 days and B can do it in 12 days. With the assistance of C, they finish the work in 4 days. How much should C be paid for his work? (+1, -0.25)
- a. Rs. 2,400
- b. Rs. 1,500
- c. Rs. 1,400
- d. Rs. 1,600
-
53. 25 and 750 are the highest common factor and the lowest common multiple of two numbers, respectively. If one of the two numbers is 75, find the other number. (+1, -0.25)
- a. 250
- b. 75

c. 50

d. 25

54. The average weight of 24 boys is 7 kg more than the average weight of 28 girls. If the total weight of 24 boys is 1080 kg, then the total weight of 28 girls is: (+1, -0.25)

a. 1074 kg

b. 1064 kg

c. 1054 kg

d. 1046 kg

55. The height of a right circular cylinder is 14 cm and its curved surface is 264 cm^2 . Its volume is: (+1, -0.25)

a. 396 cm^3

b. 290 cm^3

c. 366 cm^3

d. 252 cm^3

56. If $2 \text{ of } 8 \div 3 + 3 \frac{4}{5} \div x - 4 \frac{7}{9} = 6 \frac{8}{9}$, what is the value of x? (+1, -0.25)

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

b. $\frac{3}{5}$

c. $\frac{5}{9}$

d. $\frac{6}{7}$

57. A man borrows Rs. 15,000 at 15% p.a. compound interest. At the end of every year, he pays Rs. 2,500 as part repayment. How much does he still owe after three such instalments? (+1, -0.25)

a. Rs. 14,131.87

b. Rs. 13,175.66

c. Rs. 12,150

d. Rs. 12,642.50

58. The value of $\frac{3}{5} \div 4 \frac{4}{5}$ of $\frac{5}{16} + \frac{2}{3} \div \frac{8}{15} \times 1 \frac{1}{5} - \frac{1}{4} \times \frac{3}{4} \div 1 \frac{1}{4}$ of $\frac{2}{5}$ is: (+1, -0.25)

a. $\frac{61}{40}$

b. $\frac{12}{5}$

c. $\frac{9}{4}$

d. $\frac{21}{10}$

59. The average of five consecutive even numbers is 36. If the next five consecutive odd numbers are included, then what is the average of all the numbers? (+1, -0.25)

a. 39

b. 41.25

- c. 40.5
- d. 37.75

60. Rs. 1,26,672 is divided between A and B in the ratio 7 : 9. The difference between the share of B and that of A (in Rs.) is: (+1, -0.25)

- a. 18,354
- b. 21,317
- c. 15,834
- d. 13,485

61. The perimeter and area of a rectangular sheet are 40 m and 72 m^2 , respectively. The length of the diagonal will be: (+1, -0.25)

- a. 14 m
- b. 12 m
- c. 16 m
- d. 10 m

62. A sold an article to B at 20% profit. B sold it to C at 12% loss and C sold it to D at 25% profit. If B had a loss of Rs. 72, then D would have bought the article for: (+1, -0.25)

- a. Rs. 660
- b. Rs. 396

c. Rs. 594

d. Rs. 528

63. When the speed of a train is decreased by 25%, it takes 42 minutes more to cover the same distance. What is the time (in hours) taken by the train to cover the same distance with its actual speed? (+1, -0.25)

a. $2\frac{1}{10}$

b. $1\frac{1}{20}$

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

d. $2\frac{1}{5}$

64. When a plot is sold for Rs. 34,080, the owner loses 20%. At what price must that plot be sold in order to gain 20%? (+1, -0.25)

a. Rs. 50,120

b. Rs. 51,120

c. Rs. 41,120

d. Rs. 51,020

65. 32 workers working for 9 hours a day can finish a work in 14 days. If each worker works for 8 hours per day, how many workers are required to finish the same work in 18 days? (+1, -0.25)

a. 30

b. 24

c. 26

d. 28

66. Ravi borrowed Rs. 1,800 at 6% per annum and Rs. 2,800 at 7% per annum simple interest for the same duration and paid Rs. 2,736 in all as interest. His friend shiv borrowed Rs. 2,500 at 8% per annum simple interest for the same duration. How much (in Rs.) Shiv had to pay to clear off the loan? **(+1, -0.25)**

a. 3,900

b. 4,500

c. 4,300

d. 4,000

67. The single equivalent discount for three successive discounts of 8%, 12.5% and 20% is: **(+1, -0.25)**

a. 40.5%

b. 35.6%

c. 35.4%

d. 36.5%

68. What is to be added to 35% of 440 so that the sum may be equal to 42% of 550? **(+1, -0.25)**

a. 70

b. 75

c. 77

d. 65

69. With a uniform speed, a car covers a distance in 6 hours. Had the speed been increased by 10 km/h, the same distance could have been covered in 5 hours. The distance covered by the car is: (+1, -0.25)

a. 300 km

b. 200 km

c. 250 km

d. 350 km

70. A man bought some eggs at Rs. 60 per dozen and bought another lot of the same number of eggs at Rs. 50 per dozen. If he gained Rs. 930 after selling all these eggs at Rs. 70 per dozen. what was the total number of eggs bought by him? (+1, -0.25)

a. 54 dozens

b. 48 dozens

c. 62 dozens

d. 70 dozens

71. An article is marked at Rs. 700. If it is sold at a discount of 35%, then the selling price become $\frac{5}{3}$ times of its cost price. What is its cost price (in Rs.)? (+1, -0.25)

a. 420

- b. 455
 - c. 291
 - d. 273
-

72. What will be the least number of marbles with Seema, if she can arrange them in rows of 6, 10, 12 and 15 marbles each, and the number is also a perfect square? (+1, -0.25)

- a. 625
 - b. 900
 - c. 225
 - d. 400
-

73. 35 Litres of a mixture contain milk and water in the ratio 3 : 2. If 4 Litres of this mixture be replaced by 4 Litres of milk, then find the ratio of milk to the water in the new mixture. (+1, -0.25)

- a. 4 : 7
 - b. 3 : 5
 - c. 113 : 62
 - d. 3 : 7
-

74. A sum of money is distributed among P, Q and R in the ratio 13 : 17 : 25, respectively. If R gets Rs. 6,800 more than Q, then the difference between P's share and Q's share is: (+1, -0.25)

- a. Rs. 3,400
 - b. Rs. 3,200
 - c. Rs. 3,600
 - d. Rs. 4,400
-

75. A student got 160 marks and required 50 more marks to secure the minimum 35% marks to pass. Find the maximum marks. (+1, -0.25)

- a. 600
- b. 750
- c. 800
- d. 500



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English

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

A dummy used to display clothes in a shop window

- a. Mannequin
- b. Supermodel
- c. Statue
- d. Model

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

Mr. Ghosh is senior / than Mr. Sen, / so he must be / promoted first.

- a. Mr. Ghosh is senior
- b. so he must be
- c. than Mr. Sen
- d. promoted first

78. 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)

He will not get admission in a good college unless he will work hard.

- a. would work

- b. is working
 - c. No substitution required
 - d. works
-

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

To lose one's head

- a. To be happy
 - b. To take responsibility
 - c. To become upset or angry
 - d. To be robbed
-

80. 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)

Trees can live in an extremely long time – tens, hundreds, even thousands of years.

- a. can live with an extremely long time
 - b. can live for an extremely long time
 - c. can live in an extremely longest time
 - d. No substitution required
-

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

Emma agreed / thinking of an excuse / to get Paul / out of the house.

- a. thinking of an excuse
- b. Emma agreed
- c. to get Paul
- d. out of the house

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

Remorse

- a. Indifference
- b. Guilt
- c. Anger
- d. Denial

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

Owing money to someone

- a. Indebted
- b. Exchanged
- c. Loaned

d. Donated

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

- a. Schemes
 - b. Malnourised
 - c. Recognisable
 - d. Intigrated
-

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

It is important to _____ with the police and listen to their advice.

- a. cope
 - b. combine
 - c. concern
 - d. cooperate
-

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

United

- a. Bonded
- b. Linked
- c. Separated
- d. Together

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

Why do you think / why John / refused to / marry her?

- a. why John
 - b. marry her
 - c. Why do you think
 - d. refused to
-

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

Nobody seems to be _____ in visiting museums.

- a. attracted
 - b. anxious
 - c. obsessed
 - d. interested
-

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

The _____ of directors gave their approval for the project.

- a. team
- b. board
- c. bunch

d. band

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

Perforate

a. Pierce

b. Fold

c. Tear

d. Crack

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

Vanilla ice cream with chocolate sauce is my favourite.

a. with chocolate sauce are

b. No substitution required

c. with chocolate sauces are

d. with chocolate sauce is being

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

Losing my job was a blessing in disguise because I got to spend more time with my family.

- a. task that appeared difficult at first but became easy later
 - b. a joyful event that made everybody happy
 - c. event that seemed bad at first but resulted in something good later
 - d. a good thing that happened only once
-

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

- a. Omission
 - b. Remission
 - c. Comission
 - d. Submission
-

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

Brutal

- a. Considerate
 - b. Cheerful
 - c. Cruel
 - d. Courteous
-

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

Able to be eaten

- a. Decibel
- b. Scribble
- c. Hobble
- d. Edible

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)

When the temperature (1) _____ during the summer season, many people choose to use air-conditioners to keep their homes and offices cool. Air-conditioners, which were once regarded as a luxury, have now almost become a/an (2) _____. The air-conditioning system not only cools the indoor air down but also filters out harmful pollutants. This helps reduce dust, pollen and allergens inside the home and (3) _____ the quality of air inside the house or room. However, along with the (4) _____, there are some disadvantages. A major disadvantage is that if the filter inside the air-conditioner is not cleaned and maintained regularly, it (5) _____ to problems such as allergic colds, fever, headaches and dryness of the skin.

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

- a. raises
- b. gains
- c. rises
- d. extends

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)

When the temperature (1) _____ during the summer season, many people choose to use air-conditioners to keep their homes and offices cool. Air-conditioners, which were once regarded as a luxury, have now almost become a/an (2) _____. The air-conditioning system not only cools the indoor air down but also filters out harmful pollutants. This helps reduce dust, pollen and allergens inside the home and (3) _____ the quality of air inside the house or room. However, along with the (4) _____, there are some disadvantages. A major disadvantage is that if the filter inside the air-conditioner is not cleaned and maintained regularly, it (5) _____ to problems such as allergic colds, fever, headaches and dryness of the skin.

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

- a. necessity
- b. demand
- c. urgency
- d. essence

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)

When the temperature (1) _____ during the summer season, many people choose to use air-conditioners to keep their homes and offices cool. Air-conditioners, which were once regarded as a luxury, have now almost become a/an (2) _____. The air-conditioning system not only cools the indoor air down but also filters out harmful pollutants. This

helps reduce dust, pollen and allergens inside the home and (3) _____ the quality of air inside the house or room. However, along with the (4) _____, there are some disadvantages. A major disadvantage is that if the filter inside the air-conditioner is not cleaned and maintained regularly, it (5) _____ to problems such as allergic colds, fever, headaches and dryness of the skin.

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

- a. improve
- b. develops
- c. alters
- d. reforms

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)

When the temperature (1) _____ during the summer season, many people choose to use air-conditioners to keep their homes and offices cool. Air-conditioners, which were once regarded as a luxury, have now almost become a/an (2) _____. The air-conditioning system not only cools the indoor air down but also filters out harmful pollutants. This helps reduce dust, pollen and allergens inside the home and (3) _____ the quality of air inside the house or room. However, along with the (4) _____, there are some disadvantages. A major disadvantage is that if the filter inside the air-conditioner is not cleaned and maintained regularly, it (5) _____ to problems such as allergic colds, fever, headaches and dryness of the skin.

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

- a. benefits

- b. credits
- c. virtue
- d. merit

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)

When the temperature (1) _____ during the summer season, many people choose to use air-conditioners to keep their homes and offices cool. Air-conditioners, which were once regarded as a luxury, have now almost become a/an (2) _____. The air-conditioning system not only cools the indoor air down but also filters out harmful pollutants. This helps reduce dust, pollen and allergens inside the home and (3) _____ the quality of air inside the house or room. However, along with the (4) _____, there are some disadvantages. A major disadvantage is that if the filter inside the air-conditioner is not cleaned and maintained regularly, it (5) _____ to problems such as allergic colds, fever, headaches and dryness of the skin.

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

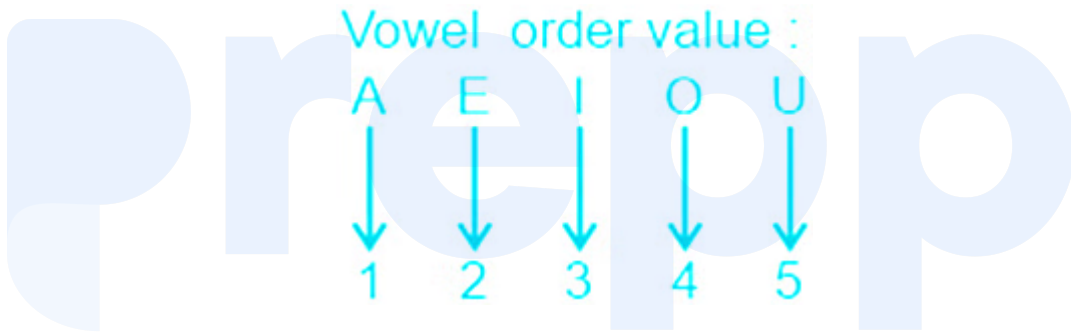
- a. could lead
- b. led
- c. leads
- d. is leading

Answers

1. Answer: a

Explanation:

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



The logic followed here is :-

- 1) HAA → There are 2 vowels in given word.
- 2) UHH → There is 1 vowel in given word.
- 3) OFF → There is 1 vowel in given word.
- 4) IXX → There is 1 vowel in given word.

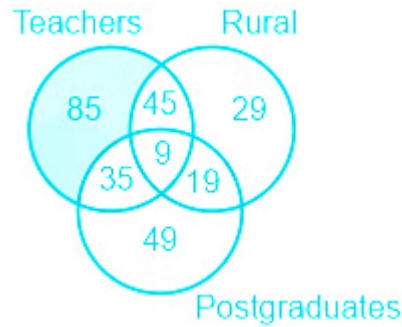
∴ Here, 'HAA' is different from other three alternatives.

Hence, the correct answer is "HAA".

2. Answer: b

Explanation:

The least possible Venn diagram for the given information is as follows :



∴ Here, the number of teachers who are NEITHER rural NOR postgraduates is '85'.

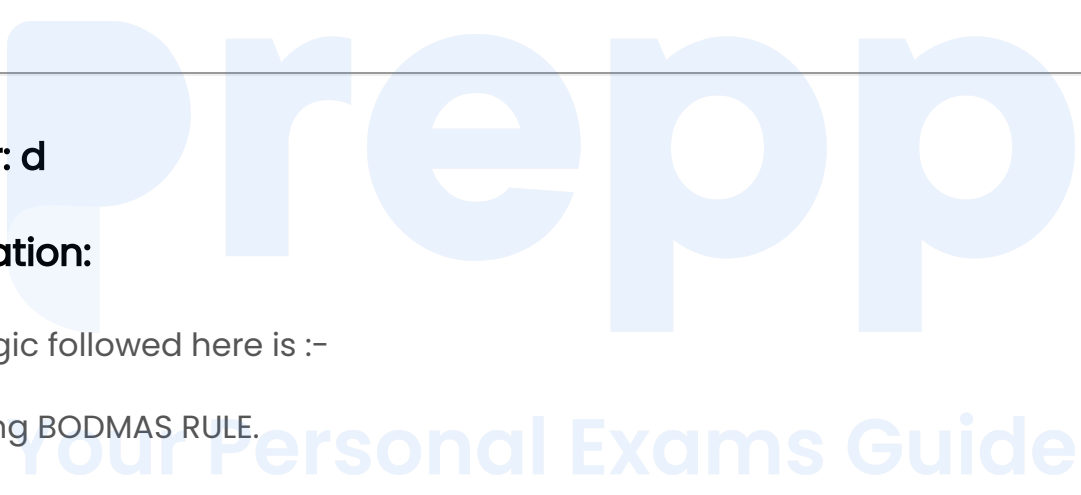
Hence, the correct answer is "85".

3. Answer: d

Explanation:

The logic followed here is :-

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 (-)

Alphabet	Symbol
P	-
Q	÷
R	+
S	×

Given expression : 106 R 115 Q 23 S 7 P 19

After replacing the symbols in place alphabet in given expression the expression is as follows : 106 + 115 ÷ 23 × 7 - 19

$$= 106 + 115 \div 23 \times 7 - 19$$

$$= 106 + 5 \times 7 - 19$$

$$= 106 + 35 - 19$$

$$= 141 - 19$$

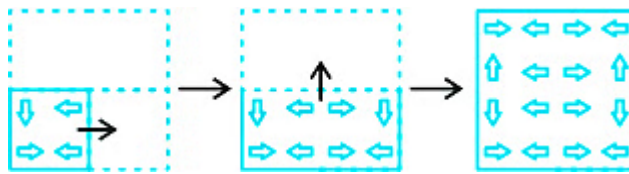
= 122

Hence, the correct answer is "122".

4. Answer: a

Explanation:

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



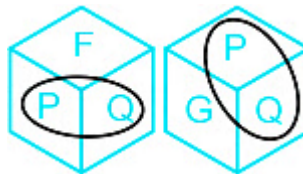
Hence, the correct answer is "Option 1".

5. Answer: b

Explanation:

In first and second dice P and Q are common in both dice.

Second dice is rotated 90° anti-clockwise in vertically on the other adjacent side of P, Q is 'F'.



\therefore Here, the opposite side of 'G' is 'F'.

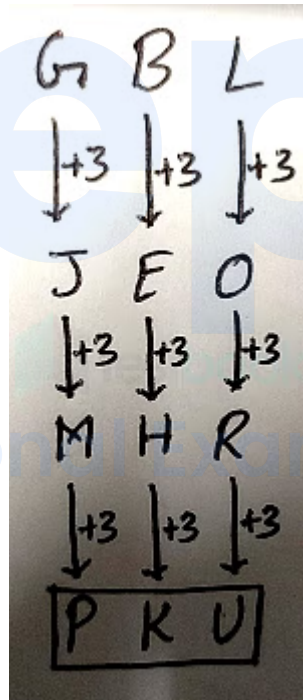
Hence, the correct answer is "F".

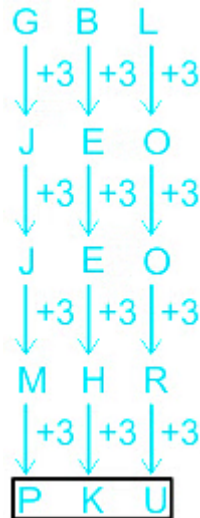
6. Answer: c

Explanation:

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

The logic followed here is :-





Hence, the correct answer is "PKU".

7. Answer: d

Explanation:

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

iii. Dec isive

i. Decla im

iv. Decl are

ii. Dec ine

v. Dec ode

Hence, the correct answer is "iii, i, iv, ii, v".

8. Answer: b

Explanation:

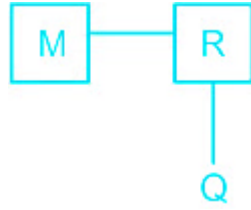
Preparing the family tree using the following symbols:

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of A Generation

According to the given information,

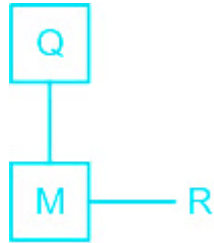
	A is		
Symbol	×	-	÷
Meaning	brother	mother	father
	Of B		

1) $M \times R \div Q \rightarrow$ M is brother of R, R is father of Q.



Here, M is father of Q.

2) $Q \div M \times R \rightarrow$ Q is father of M, M is brother of R.



Here, M is son of Q.

3) $M \div R \times Q \rightarrow$ M is father of R, R is brother of Q.



Here, M is father of R.

4) $M - R \div T \rightarrow$ M is mother of R, R is father of T.



Here, No Q given.

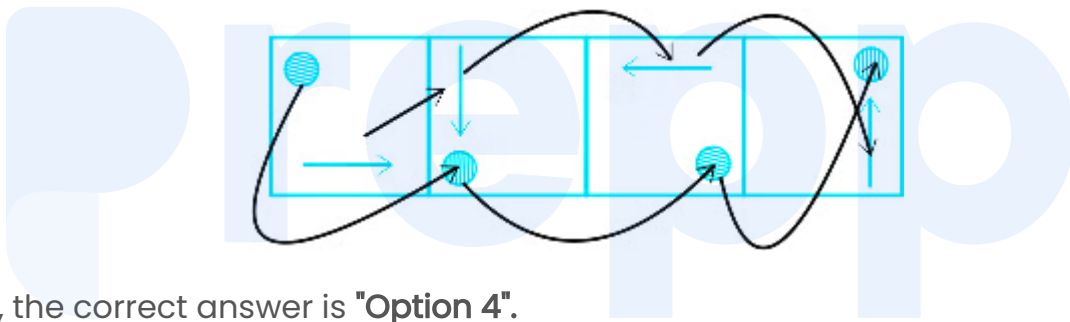
Hence, the correct answer is "Q ÷ M × R".

9. Answer: d

Explanation:

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

- The arrow moves one step in clockwise from figure to figure.
- The circle is rotated 90° and moves anti-clockwise from figure to figure.



Hence, the correct answer is "Option 4".

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10. Answer: c

Explanation:

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

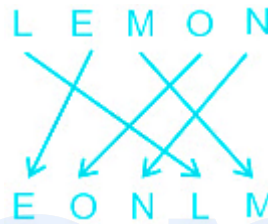
The logic followed here is :-

PRINT : RNTPI



Similarly,

LEMON : ?



Hence, the correct answer is "EONLM".

11. Answer: c

Explanation:

Given :- $_ b _ p p p _ q p _ p b _ p _$

By checking options and substituting accordingly.

1) $b q b p b p \rightarrow b b q p p - p b q p p - p b b p p$

2) $p b q p b q \rightarrow p b b p p - p q q p p - p b b p q$

3) $p q b p q p \rightarrow p b q p p - p b q p p - p b q p p$

- Here "pbqpp" is repeated.

4) $p q p p q b \rightarrow p b q p p - p p q p p - p b q p b$

- Option (3) gives the pattern of :- $p b q p p - p b q p p - p b q p p$

Hence, the correct answer is "p q b p q p".

12. Answer: a

Explanation:

The logic followed here is :-

'REACH' is coded as 85139.



And

'SUN' is coded as 264.



Similarly,

'SEARCH' will be coded as :



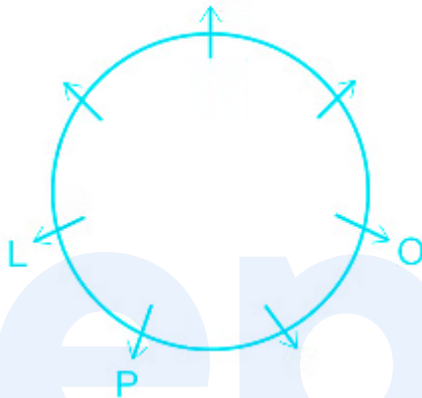
Hence, the correct answer is "251839".

13. Answer: b

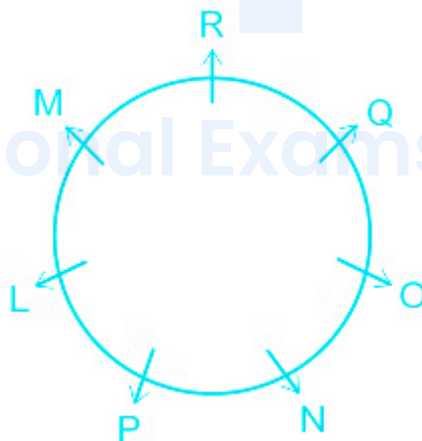
Explanation:

Seven friends, L, M, N, O, P, Q and R, are sitting around a circular table, with their backs towards the centre.

1) L is sitting to the immediate right of P and O is sitting third to the left of L.



2) Q is sitting between R and O and M is not the neighbour of P.



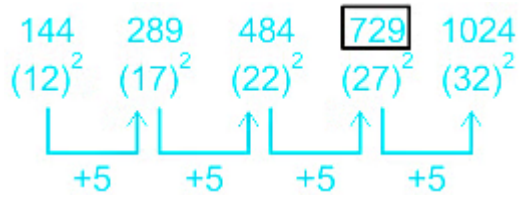
∴ Here, 'M' is sitting to immediate right of 'L'.

Hence, the correct answer is "M".

14. Answer: d

Explanation:

The logic followed here is :-



Hence, the correct answer is "729".

15. Answer: d

Explanation:

The logic followed here is:

Column wise:

First number \times 3 + Second number = Third number

1 st Column:

5
11
26

Third number = $5 \times 3 + 11 = 15 + 11 = 26$.

2 nd Column:

12
19
55

$$\text{Third number} = 12 \times 3 + 19 = 36 + 19 = 55$$

Similarly,

3rd Column:

?
25
79

$$79 = ? \times 3 + 25$$

$$\Rightarrow ? \times 3 = 54$$

$$\Rightarrow ? = 18$$

Hence, the correct answer is "18".

16. Answer: d

Explanation:

Given,

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When 12 is added to a number, it is equal to 2 times the sum of 4 and the number.

Let us consider the number = X

$$\Rightarrow X + 12 = 2(X + 4)$$

$$\Rightarrow X + 12 = 2X + 8$$

$$\Rightarrow 2X - X = 12 - 8$$

$$\therefore X = 4$$

So, the number X = 4

Hence, the correct answer is "4".

17. Answer: c

Explanation:

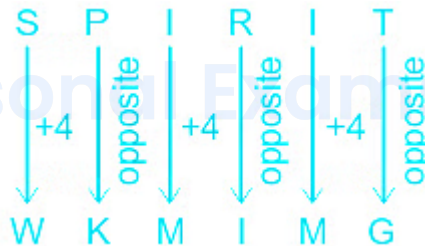
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is :

First letter is added with +4.

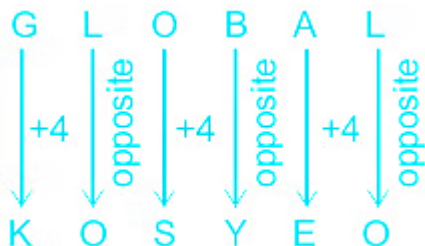
Second letter is opposite of that letter and it is repeated.

'SPIRIT' is written as 'WKMIMG'.



Similarly,

'GLOBAL' will be written as :

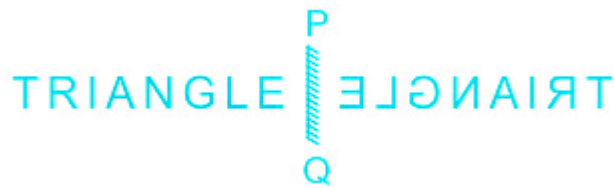


Hence, the correct answer is "KOSYEO".

18. Answer: d

Explanation:

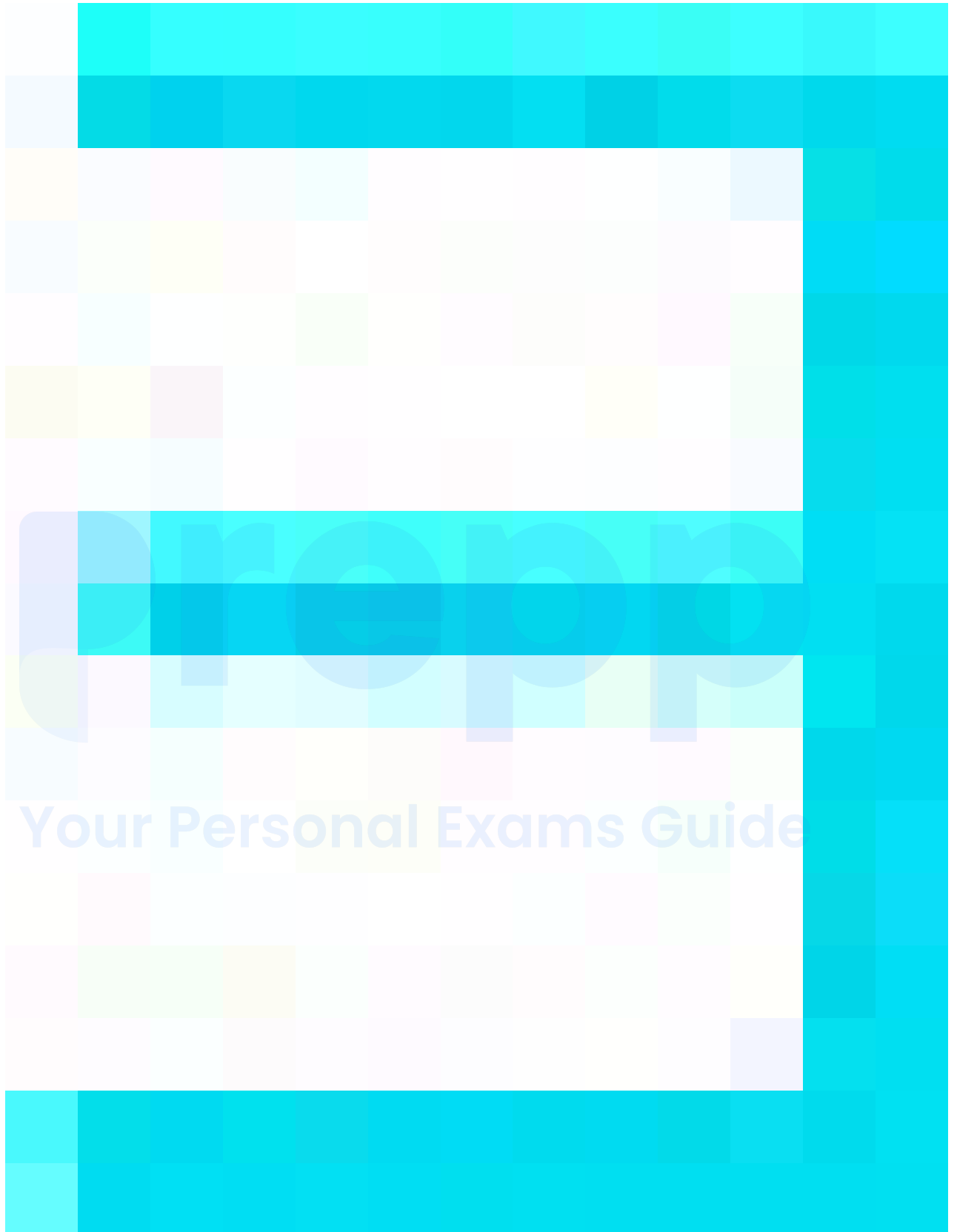
The correct mirror image of the given combination when the mirror is placed at PQ is as shown below :-



Detailed Explanation:

- The line PQ is the mirror.
- The word "TRIANGLE" ends with last letter 'E'. So, the mirror image will starts with "

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" ⇒ Option 1 and Option 2 are eliminated.









- The word "TRIANGLE" has last fifth letter 'A'. So, the mirror image should be "A" ⇒ Option 3 is eliminated.

Hence, the correct answer is "Option 4".

19. Answer: c

Explanation:

The figure embedded in the given options is as shown below :

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

Hence, the correct answer is "Option 3".

20. Answer: d

Explanation:

The logic followed here is :-

Patna is capital of Bihar state.

Similarly,

Dispur is capital of Assam state.

★ Additional Information

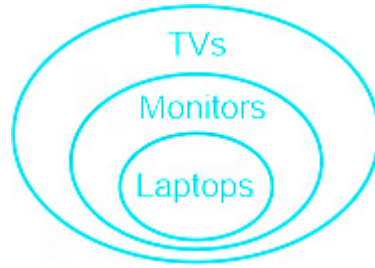
State	Capital
Nagaland	Kohima
Mizoram	Aizwal
Meghalaya	Shillong
Assam	Dispur

Hence, the correct answer is "Assam".

21. Answer: a

Explanation:

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



Conclusions:

1. All monitors are laptops → False (As All laptops are monitors so, All monitors are laptops is false)
2. Some TVs are monitors → True (As All monitors are TVs so, Some TVs are monitors is true)
3. No monitor is a laptop → False (As All laptops are monitors so, No monitor is a laptop is false)

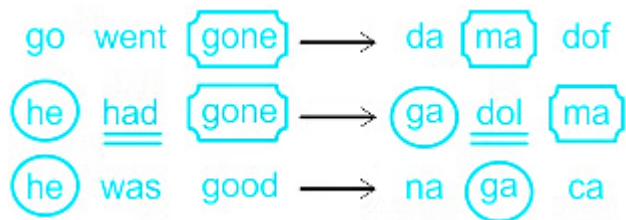
∴ Here, Only conclusion 2 is true.

Hence, the correct answer is "Only conclusion 2 follows".

22. Answer: c

Explanation:

The logic followed here is :-



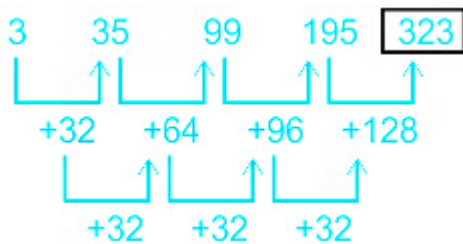
∴ Here, 'had' is written as 'dol'.

Hence, the correct answer is "dol".

23. Answer: a

Explanation:

The logic followed here is :-



Hence, the correct answer is "323".

24. Answer: c

Explanation:

The logic followed here is :-

Second number $\times 6 =$ First number.

$$54 : 9 \rightarrow 9 \times 6 = 54$$

Similarly,

$$? : 7 \rightarrow 7 \times 6 = 42$$

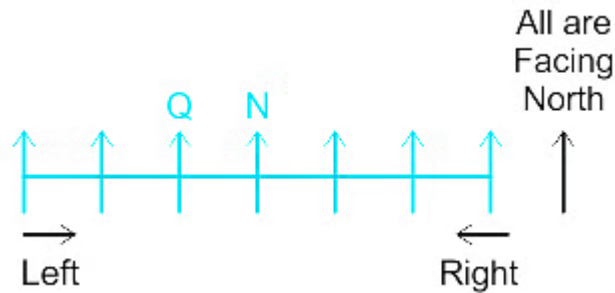
Hence, the correct answer is "42".

25. Answer: a

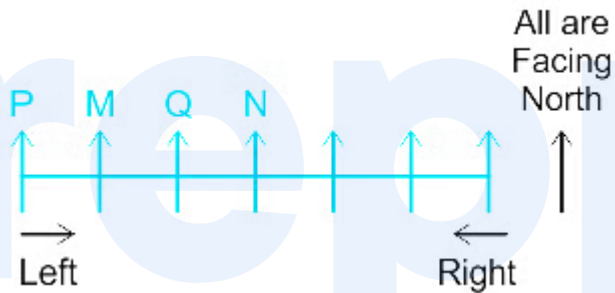
Explanation:

Seven friends, M, N, O, P, Q, R and S, are sitting in a straight line, all facing towards the north.

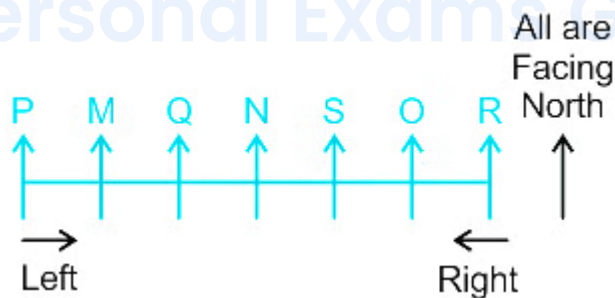
1) N is sitting at the middle position and Q is sitting to the immediate left of N.



2) M is sitting between Q and P.



3) S is sitting to the immediate left of O and M and O are not sitting at any of the ends.



∴ Here, 'R' is sitting in right end of line.

Hence, the correct answer is "R".

26. Answer: d

Explanation:

The correct answer is Suparno Satpathy.

★ Important Points

- Fit India was founded in 1993 by Shri Suparno Satpathy and incorporated as a company in 2000.
- The 'Fit India Movement' was launched in August, 2019.
- Fit India Movement is a nationwide movement in India that encourages people to remain healthy and fit by including physical and sports activities in their daily lives.
- It was unveiled by Indian Prime Minister Narendra Modi at Indira Gandhi Stadium in New Delhi on 29 August 2019 (National Sports Day).
- On 6 September 2019, the 17th and incumbent Speaker of Lok Sabha, Shree Omprakash Krishna Birla, conducted a session of Fit India in the Parliament Complex and invited all Members of Parliament to take part in the campaign.

27. Answer: c

Explanation:

The correct answer is David Warner.

★ Key Points

- The Allan Border Medal recognises the most outstanding male Australian cricketer.
- First awarded in 2000, the medal is named after former Australian men's captain Allan Border.
- David Warner won Allan Border Medal for the year of 2016, 2017, 2020.

★ Additional Information

- Former Australian captain Steve Smith won the third Allan Border Medal of his career at the Australian Cricket Awards for the period 2020–21.

- Before 2021 Steve Smith also won this award in 2018 and 2015.
- Apart from this, Beth Mooney bagged Belinda Clarke Award , the top honour for a female player at the Australian Cricket Awards.

28. Answer: a

Explanation:

The correct answer is Pressure.

★ Key Points

- **Pressure** is equal to thrust divided by area.
- Thrust is a kind of pull force, which is applied by the medium on the object.
 - Pressure (P) = Thrust force (F T)/ Area (A).
- The force per unit area is called **pressure** .
- The SI unit of pressure is **Pascal (Pa)** .
 - Pressure (P) = Force (F)/ Area (A)

★ Additional Information

- Thrust : The force acting perpendicular to the surface of the object is called thrust.
 - When any object is put into the water then the object will replace the water the same as it's volume and the cause of which there is a force acting upwards, to balance this weight is called the thrust force.
 - The effect of thrust is more on the smaller surface area than the thrust acting on a larger surface area.

$$\text{Thrust Force (F T)} = \text{Pressure (P)} \times \text{Area (A)}$$

29. Answer: c

Explanation:

The correct answer is bull taming festival.

★ Key Points

- Jallikattu is a game to control the bull.
- It is **bull taming festival**.
- It has been played during the Pongal festival in Tamil Nadu.
- In Jallikattu, the bull is controlled.
- The person controlling it has to remain on his back till a certain distance or three times the bull is jumped.

★ Additional Information

- **The International Kite Festival (Uttarayan)** is one of the biggest festivals celebrated.
 - It is celebrated in **Gujarat**.
- The **festival is observed by lighting the candles** of a candelabrum with nine branches, commonly called a **menorah or hanukkah**.
 - It is celebrated in **Israel**.
- **Buffalo fighting** is a unique and traditional festival of people in **Do Son District, Haiphong City, Vietnam**.
 - This festival is not only associated with Water Goddess worshiping and sacrificing custom but also expressed bravery, chivalry, and risk-taking spirit of people in the coastal city of Haiphong.

30. **Answer: c**

Explanation:

The correct answer is maize.

★ Key Points

- Maize is a crop that is used both as food and fodder.
- It is a Kharif crop that requires a temperature between 21°C to 27°C.
- It grows well in old alluvial soil.

- In some states like Bihar maize is grown in the Rabi season also.
- The use of modern inputs such as HYV seeds, fertilisers and irrigation have contributed to the increasing production of maize.
- Major maize-producing states are Karnataka, Uttar Pradesh, Bihar, Andhra Pradesh, Telangana and Madhya Pradesh.

★ Additional Information

- Kharif crops are grown with the onset of monsoon in different parts of the country and these are harvested in September–October.
 - Important crops grown during this season are paddy, maize, jawar, bajra, tur (arhar), moong, urad, cotton, jute, groundnut, and soyabean.
- Rabi crops are sown in winter from October to December and harvested in summer from April to June.
 - Some of the important rabi crops are wheat, barley, peas, gram, and mustard.

31. Answer: b

Explanation:

The correct answer is Pagal Panthi Revolt – Tirot Sing.

★ Key Points

- Paika's rebellion took place in Odisha.
 - **Jagabandhu Bidyadhara Mohapatra Bhramarbara Raya** popularly known as Buxi Jagabandhu or Paika Khandayat Buxi was the commander of the forces of the king of Khurda.
 - The English Company's conquest of Odisha in 1803 and dethronement of the Raja of Kundra had greatly reduced the power and prestige of the Paikas.
 - The Paika rebellion succeeded in getting large remissions.
- ***Hence it is correctly matched.***
- Pagal Panthi Revolt – East Bengal
 - The revolt originated in the Bengal region in the late 18th century.

- Karam Shah was the founder of this religious sect.
- His son Tipu took the cause of tenants against Zamindars.
- The area remained disturbed in the 1830s and 1840s.
- *Hence it is incorrectly matched.*
- Ahom Revolt – Assam
 - Ahom Revolt took place in 1828 in Assam.
 - British did not fulfill their promise to withdraw after the first Burma war.
 - Gomdhar Konwar was the leader of the revolt.
- *Hence it is correctly matched.*
- Kol Uprising – Chota Nagpur
 - Kol Uprising took place in 1831 at Chota Nagpur.
 - Large scale transfer of land to outsiders from Kol headmen.
 - Buddhu Bhagat led this revolt.
 - *Hence it is correctly matched.*

32. Answer: d

Explanation:

The correct answer is Lord Lytton.

★ Key Points

- On January 1, 1877, at Coronation Park in Delhi, British monarch **Queen Victoria (1837–1901)** assumed a new title: **Kaiser-e Hind**, Empress of India.
- Kaiser-I-Hind means Empress of India was the Title given to Queen Victoria in the year 1877 in Delhi Durbar by **Viceroy Lord Lytton (1876–1880)**.
- This was made possible by passing the **Royal Titles Act in 1876 In British Parliament**.

★ Additional Information

- Lord Lytton was an experienced diplomat and a man of striking ability and brilliance.
- The British Prime Minister, Disraeli appointed him as the Viceroy of India.
- He acted as viceroy of India from 1876 to 1880.

- **Events under Lord Robert Lytton's rule:**

- The prevailing famine and the political disturbances in the northwest Frontier caused great worry to the British at that time. The first Famine Commission (1878-80) under Sir Richard Strachey was appointed and it made many commendable recommendations.
- In 1878, the Vernacular Press Act was passed.
- Lord Lytton introduced a uniform salt tax throughout British India. He also abolished many import duties and supported the Free Trade Policy
- Second Afghan War (1878-80): Soon after the outbreak of the war in 1878, the British troops captured the territory between Kabul and Kandahar. The ruler of Afghanistan, Sher Ali fled from his country and died in 1879. His son Yakub Khan became the ruler and the British concluded the Treaty of Gandamak with him.

33. Answer: c

Explanation:

The correct answer is table tennis player.

★ **Key Points**

- **Manika Batra:** She is a top-ranked Indian table tennis player and ranked 63rd in the world.
- She specializes in playing long pimples on her backhand.
- She was born on June 15, 1995, at New Delhi.
- She was two times Gold medal winner in the commonwealth games 2018.
- She has represented India in the South Asian games 2016 and won 3 Gold medals.

★ **Additional Information**

- **Rajiv Gandhi Khel Ratna Award:** It is the highest sporting award of the Republic of India.
 - It was named after former prime minister Rajiv Gandhi.

- It was given by the Ministry of Youth Affairs and Sports for the spectacular and most outstanding performance in the field of sports by a sportsperson over a period of four years.
 - The award comprises of Medallion and a Cash prize of 25 lakh rupees.
 - Award was instituted in 1991-92 .
 - First awardee: Viswanath Anand.
-

34. Answer: a

Explanation:

The correct answer is jute.

★ Key Points

- **India and Bangladesh** are the leading producers of **jute**.
- West Bengal, Bihar, Assam, Odisha and Meghalaya are the major jute-producing states.
- The leading world's jute-producing countries are India, Bangladesh, China and Thailand.

★ Additional Information

- Jute is known as the golden fibre.
 - Jute grows well on well-drained fertile soils in the flood plains where soils are renewed every year.
 - A high temperature is required during the time of growth.
 - It is used in making gunny bags, mats, ropes, yarn, carpets and other artefacts.
 - Due to its high cost, it is losing the market to synthetic fibres and packing materials, particularly nylon.
-

35. Answer: d

Explanation:

The correct answer is Shekhar Kapur.

★ Key Points

- Shekhar Kapur has been named as the President of the Film and Television Institute of India.
- Shekhar Kapur replaces B. P. Singh as the President of the Film and Television Institute of India.

★ Additional Information

- **The Film and Television Institute of India (FTII)** is an autonomous institute.
- It comes under the Ministry of Information and Broadcasting of the Government of India.
- The Film and Television Institute of India (FTII) was established in 1960.
- The Film and Television Institute of India (FTII) is situated in Pune.

36. Answer: b

Explanation:

The correct answer is NaCl.

★ Key Points

- Ionic Bond: These bonds are also called Electrovalent bond.
- This type of linkage formed from the electrostatic attraction between oppositely charged ions in a chemical compound.
- The atom that loses the electrons becomes a positively charged ion (cation), while the one that gains them becomes a negatively charged ion (anion).
- The formation of ionic compounds (**like the addition of sodium metal and chlorine gas to form NaCl**) are usually extremely exothermic.
- The loss of an electron from an element.
 - Always endothermic (takes energy to strip the electron from the atom)
- The gain of an electron by a non-metal:
 - Generally exothermic (energy released)

- Ionic bond can be both Endothermic and exothermic.
- Examples - KCl, AlCl₃, NaCl

★ Additional Information

Covalent Bond:

- A covalent connection is created when the electrons from each participating atom are shared equally.
- Shared pair or bonding pair refers to the pair of electrons involved in this sort of bonding.
- Molecular bonds are another name for covalent bonding.
- The atoms will gain stability in their outer shell through the sharing of bonding pairs, analogous to noble gas atoms.
- Examples - CH₄, H₂O, NH₃

37. Answer: d

Explanation:

The correct answer is Ramesh Pokhriyal 'Nishank'.

★ Key Points

- Union Minister of Education Shri Ramesh Pokhriyal 'Nishank' presented the AICTE Lilavati Awards 2020 on women empowerment.
- The awards were presented based on the theme "Women Empowerment".
- The winners were selected by AICTE (All India Council for Technical Education) in six sub-themes.

★ Additional Information

- List of winners:
 - SWEAT (Sona Women Entrepreneurship and Training) from Sona College of Technology, Tamil Nadu won the award under the 'Women Entrepreneurship' sub theme.

- College from **Tamil Nadu, Paritrana** from St. Joseph's College of Engineering won the award for the '**Self Defense**' sub theme.
- Under the '**Literacy**' sub theme , Bharatiya Vidyapeeth of the Institute of Management and Entrepreneurship Development Pune won the award.
- The Lilavati Award under the "**Women's Health**" sub theme was won by the WIT Women Health Coalition from Walchand Institute of Technology, Maharashtra.
- **Radiant Seetha** from Thiagarajar Polytechnic College won the contest in the 'Legal Awareness' sub theme.
- Under the '**Sanitation & Hygiene**' sub-theme , Smt. Kishoritai Bhoyar College of Pharmacy, Nagpur, Maharashtra won the award.

38. Answer: c

Explanation:

The correct answer is Substitute goods.

★ Key Points

- **Substitute Goods** are goods that are identical, similar or comparable to another product, in the eyes of the consumer, such that they can either fully or partly satisfy the same needs of the consumer.
- **Substitute Goods** are those goods which can be used with equal ease in place of one another.
- Demand for a good will bear a direct relationship to the price of its substitute good.
 - For example, **tea and coffee**.

★ Additional Information

- **Capital goods** are physical assets that a company uses in the production process to manufacture products and services that consumers will later use.
- An **intermediate good** is a product used to produce a final good or finished product also referred to as a consumer good.

- **Consumer goods** are products bought for consumption by the average consumer.
-

39. **Answer: a**

Explanation:

The correct answer is **Prairies**.

★ **Key Points**

- The Prairies are known as the granaries of the world because of the huge production of wheat.
- The moderate temperature, reasonable rainfall, and fertile and humid soil in these prairies made them the main producer of wheat in the world.
- That is why they are known as the granaries of the world.
- The prairie is a region of surplus wheat production.

★ **Additional Information**

- **Important Grasslands**
 - East Africa- Savanna
 - Brazil- Campos
 - Venezuela- Llanos
 - Argentina- **Pampas**
 - N. America- Prairie
 - S. Africa- Veld
 - C. Asia- **Steppe**
 - Australia- **Down**

40. **Answer: d**

Explanation:

The correct answer is **32**.

★ Key Points

- The following rules are followed for writing the number of electrons in different energy levels or shells:
- The maximum number of electrons present in a shell is given by the formula $= 2n^2$
 - Where 'n' is the orbit number or energy level index, 1,2,3,....
- Hence the maximum number of electrons in different shells are as follows:
 - first orbit or K-shell will be $= 2 \times 1^2 = 2$
 - second orbit or L-shell will be $= 2 \times 2^2 = 8$
 - third orbit or M-shell will be $= 2 \times 3^2 = 18$
 - fourth orbit or N-shell will be $= 2 \times 4^2 = 32$ and so on,
- The maximum number of electrons that can be accommodated in the outermost orbit is **32**.

41. **Answer: b**

Explanation:

The correct answer is Persian.

★ Key Points

- The language of administration under the Delhi Sultans was Persian .
- We can say this because much literature of that time was written in the Persian language.
- The Delhi Sultanate literature began with the rise of Persian-speaking people to the throne of the Sultanate of Delhi, which naturally resulted in the spread of the Persian language in India.
- It was the **official language** and soon literary works in the language began to appear.
- Initially, Persian literature talked about topics that were familiar to those from Persia.

★ Additional Information

- Gradually however as more Indians learnt the language, the literary works began to have a **more Indian theme**.
- **Amir Khusrau** was a noted writer of the period, who was one of the **first writers to write Persian literature** about events concerning India.
 - His inspiration came from events he saw around, his work soon grew to be appreciated and he became a court poet

42. Answer: c

Explanation:

The correct answer is 2.

★ Key Points

- **4 members** represent Himachal Pradesh in the 17th Lok Sabha as of 22 November 2020.
- 4 MP of Himachal Pradesh
 - Kangra –Kishan Kapoor
 - Mandi –Pratibha Singh
 - Hamirpur – Anurag Thakur
 - Shimla –Suresh Kumar Kashyap

★ Additional Information

- The 17th Lok Sabha elections were held in seven phases from 11 April to 19 May 2019.
- Bhartiya Janta Party (BJP) won the majority (303 seats) and Narendra Modi has been elected as the Prime Minister.
- The 17th Lok Sabha has the highest ever number of women parliamentarians ever at 78.
- There are 545 seats in Lok Sabha and Uttar Pradesh has the maximum seats-80.
- **Chief Election Commissioner** –Rajiv Kumar

- Speaker of Lok Sabha –Om Birla
- Protem Speaker of Lok Sabha –Virendra Kumar

43. Answer: b

Explanation:

The correct answer is Hawa Mahal.

★ Key Points

- Hawa Mahal
 - It is a palace in Jaipur, Rajasthan.
 - The words “Hawa Mahal” means “Wind Palace.”
 - It exhibits a unique combination of Mughal and Rajput architectural styles.
 - It is a five-story pyramidal-shaped monument that rises to about 50 feet (15 m).
 - Its five-floor exterior is akin to a honeycomb with its 953 small windows called Jharokhas .

★ Additional Information

- The **Ujjayanta Palace** is a museum and the former palace of the Kingdom of Tripura situated in Agartala, which is now the capital of the Indian state of Tripura.
- **Bara Imambara**, also known as Asfi Imambara is an imambara complex in Lucknow, India built by Asaf-ud-Daula, Nawab of Awadh in 1784.
- **The Bibi Ka Maqbara** is a tomb located in Aurangabad, Maharashtra, India.
 - It was commissioned in 1660 by the Mughal emperor Aurangzeb in the memory of his wife **Dilras Banu Begum**.

44. Answer: a

Explanation:

The correct answer is Mughal Emperor.

★ Key Points

- **Nizam-ul-Mulk Asaf Jah**, the founder of Hyderabad state, was the most powerful member of the court of the **Mughal Emperor, Farrukh Siyar**.
- He was entrusted first with the governorship of Awadh, and later given charge of the Deccan.
- As the Mughal governor of the Deccan provinces, Asaf Jah already had full control over its political and financial administration.
- He already had complete control over his political and financial administration.
- He was first given the charge of the **governor of Awadh and later the Deccan**.
- He followed a **tolerant policy against all religions**.

★ Additional Information

- Farrukhsiyar (1713–1719 AD):
 - Known as 'Sahid-i-Mazlum' and son of Azim-us-Shah.
 - Assigned the duty of Deccan's governor to Chin Quilch Khan who was better known as 'Nizam-ul-Mulk'.
 - Peshwa Balaji Vishwanath visited in his court to take grant for collecting Chauth and Sardesh Mukhi on Maratha land.
 - Rafi Ush-Shan was the father of Rafi Ud-Darajat.
 - He was the tenth Mughal Emperor.

45. **Answer: c**

Explanation:

The correct answer is 12 November.

★ Key Points

- World Pneumonia Day is observed globally on 12th November every year.

- It aims to highlight the fact that pneumonia remains the world’s leading killer of adults and children – claiming the lives of 2.5 million in 2019, including 672,000 children.
- The day was first celebrated in the year 2009.
- Symptoms of pneumonia may include cough, fever, shortness of breath, etc .

★ Additional Information

Important days:

Date	Day
8th November	International Day of Radiology
10th November	World Science Day for Peace and Development
13th November	World Kindness Day
14th November	World Diabetes Day
15th November	World Day of Remembrance for Road Traffic Victims
15th November to 21st November	National Newborn week
16th November to 22nd November	59th National Pharmacy Week
18th November	World COPD Day
18th November to 24th November	World Antimicrobial Awareness Week
19th November	World Toilet Day
20th November	Africa Industrialization Day

46. Answer: d

Explanation:

The correct answer is Education for All.

★ Key Points

- The union budget of India was introduced on 1 February 2020 by Finance Minister Nirmala Sitharaman .
- The budget is woven around three prominent themes
 - Aspirational India.
 - Economic Development.
 - Caring Society.

Hence **Education for All** was NOT the theme for Union Budget 2020–21.

- This is the first time since 1993 that the deposit insurance coverage has been raised.
- In May 1993, deposit insurance cover was increased to Rs 1 lakh from Rs 30,000.
- The Indian Union Budget 2020–21 announced that the Deposit Insurance and Credit Guarantee Corporation (DICGC) has been permitted to increase deposit insurance coverage to Rs. 5 lakh per depositor from Rs. 1 lakh previously .
- If a customer's deposit amount crosses Rs 5 lakh in a single bank, only up to Rs 5 lakh, including the principal and interest, will be paid by the DICGC if the bank turns bankrupt.

★ Additional Information

- Independent India's first budget was presented on November 26, 1947, by the then Finance Minister RK Shanmukham Chetty .
- Sitharaman holds the record for delivering the longest speech when she spoke for 2 hours and 42 minutes while presenting the Union Budget 2020–21 .
- The covid-19 pandemic turned the Budget for 2021–22 paperless – a first in Independent India .
- In 2019, Sitharaman became the second woman to have presented the budget after Indira Gandhi .

47. Answer: c

Explanation:

The correct answer is Sania Mirza.

★ Key Points

- Sania Mirza became the first Indian to win the **Fed Cup Heart Award 2020** for Asia/Oceania zone, for her successful return to the court post-motherhood.
- She became the first Indian to win Fed Cup Heart Award and she donated a 2k\$ prize to Telangana's CM Relief Fund .
- She won the award for Asia/Oceania zone after securing a whopping 10,000 plus votes out of the total 16,985 casts for this year's three regional Group I nominees.

★ Additional Information

- Sania Mirza -
 - Sania Mirza has won six grand slams and also became doubles world no. 1.
 - In July 2016, Mirza published an autobiography titled Ace Against Odds .
 - She has been awarded Rajiv Gandhi Khel Ratan Award in 2015 and Padma Bhushan in 2016.
 - She also won the NRI of the year award of 2016.

48. Answer: a

Explanation:

The correct answer is It applies to certain parts of India.

★ Important Points

- The **Equal Remuneration Act, of 1976** provides for payment of equal wages for work of the same and similar nature to male and female workers and for not making discrimination against female employees in matters of transfers, training and promotion etc.
- It is a **Central Legislation**.
 - Hence statement 2 is correct.
- **Article 39** which is included in the Constitution of India deals with equal remuneration pay.
- **The equal remuneration act extends to the whole of India.**
 - **Hence statement 1 is INCORRECT.**
- Provisions of the Act extend to all categories/types of employment.
- The main Object and scope of this Act
- Payment of equal remuneration to **men and women workers for the same work or work of similar nature without any discrimination based on gender.**
 - **Hence statement 3 is correct.**
- To prevent discrimination based on gender, especially against women employees while making recruitment of women for the same work or work of similar nature or in any condition of service after the recruitment of women.
- The Act provides for the payment of equal remuneration to men and women workers for the same work or work of a similar nature and the prevention of discrimination on the ground of sex against women in the matter of employment.
 - Hence statement 4 is correct.

49. Answer: d

Explanation:

The correct answer is 2014.

★ Key Points

- Malala Yousafzai is a Pakistani activist for female education.
- In 2014, she was awarded the Nobel Peace Prize.
- She is the youngest Nobel Prize laureate.

- She was honored with the Nobel Prize at the age of 17.
- Kailash Satyarthi and Malala Yousafzai shared the Nobel Peace Prize in 2014.

★ Additional Information

- Notable work of Malala Yousafzai:
 - We are displaced: True Stories of Refugee Lives.
 - Malala's Magic Pencil.
 - My Story of Standing Up for Girls' Rights.
- Pakistan's first National Youth Peace Prize was given to her.
- 'Gul Makai' is a Malala Yousafzai biographical drama.
- Between 1901 and 2021, 947 laureates and 28 organizations received the Nobel Prize.

50. Answer: a

Explanation:

The correct answer is 2019.

★ Key Points

- India completed the **50th anniversary of bank nationalisation** programme in 2019.
- The Government of India nationalised the **14 largest commercial banks** on 19 July 1969.

★ Additional Information

- The Nationalisation was done through the **Banking Companies (Acquisition and Transfer of Undertakings) Ordinance, 1969**.
- This was the bold decision taken by that time Prime Minister of India **Smt Indira Gandhi**.
- These lenders held over **80 percent** of bank deposits in the country.
- In, 1980 Another Six Private Banks were Nationalised.
- At Present, currently, there are **19 Nationalised banks in India**.

- Till the year 1969, the State Bank of India (SBI) was the only bank that was not Privately Owned, which was called the **Imperial Bank before its Nationalisation in the year 1955.**

51. Answer: d

Explanation:

Given:-

Compound interest(CI) = Rs. 651

Time(t) = 2 years

Rate of interest(r) = 10%

Formula used:-

CI = Amount(A) - Principal(P)

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

Simple interest(SI) = $(P \times r \times t)/100$

Calculation:-

According to question-

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

$P + CI = P(1 + r/100)^n$

$CI = P(1 + r/100)^n - P$

$CI = P[(1 + r/100)^n - 1]$

$\Rightarrow 651 = P[(1 + 10/100)^2 - 1]$

$\Rightarrow 651 = P[(11/10)^2 - 1]$

$$\Rightarrow 651 = P[(121 - 100)/100]$$

$$P = (651 \times 100)/21$$

$$P = 3100$$

Now,

$$P = 3100, R = r/2 = 5\%, T = 2t = 4\text{years}$$

$$SI = (3100 \times 5 \times 4)/100$$

$$SI = 31 \times 20$$

$$SI = \text{Rs. } 620$$

\therefore Simple interest per annum is Rs. 620

52. Answer: d

Explanation:

Given:-

A can do a work in 10 days

B can do a work in 12 days

they undertake to do job for Rs. 6000

Concept used:-

Efficiency concept related to work and time.

Total work = LCM(Time taken by all individual)

Calculation:-

Total work = LCM(10, 12)

Total work = 60 units

Rs. per unit = $6000/60 = 100$ Rs. per unit

\therefore A's per day work = $60/10 = 6$ units

A's per day income = $6 \times 100 = \text{Rs. } 600$

B's per day work = $60/12 = 5$ units

B's per day income = $5 \times 100 = \text{Rs. } 500$

Let C's per day work = x units

According to Question-

$$\Rightarrow (6 \times 4) + (5 \times 4) + (x \times 4) = 60$$

$$\Rightarrow 24 + 20 + 4x = 60$$

$$\Rightarrow 4x = 60 - 44$$

$$\Rightarrow x = 16/4$$

$$\Rightarrow x = 4 \text{ units}$$

C's per day income = $4 \times 100 = \text{Rs. } 400$

\therefore C should be paid for work = $400 \times 4 = \text{Rs. } 1600$

53. Answer: a

Explanation:

Given:

25 and 750 are the HCF and the LCM of two numbers

If one of the two numbers is 75

Concept used:

$$\text{LCM} \times \text{HCF} = \text{First number} \times \text{Second number}$$

Calculation:

$$\text{LCM} \times \text{HCF} = \text{First number} \times \text{Second number}$$

$$\Rightarrow 750 \times 25 = 75 \times \text{Second number}$$

$$\Rightarrow \text{Second number} = 18750/75 = 250$$

\therefore The second number is 250.

54. Answer: b

Explanation:

Given:

Total weight of 24 boys is 1080 kg

Solution:

$$\text{Average weight of 24 boys} = 1080/24 = 45$$

According to question,

$$\text{Average weight of girls} = 45 - 7 = 38$$

$$\text{Total Weight of 28 girls} = 38 \times 28$$

$$\Rightarrow 1064 \text{ kg}$$

The total weight of 28 girls is 1064 kg.

55. Answer: a

Explanation:

Given:

Height of a cylinder = 14 cm and Curved surface is 264 cm^2

Formula used:

Curved surface area = $2\pi rh$

Volume of cylinder = $\pi r^2 h$

Calculation:

Curved surface area = $2\pi rh$

$$\Rightarrow 264 = 2 \times (22 / 7) \times r \times 14$$

$$\Rightarrow r = (264 \times 7) / 2 \times 14 \times 22$$

$$\Rightarrow r = 3 \text{ cm}$$

Volume of cylinder = $\pi r^2 h$

$$\Rightarrow (22 / 7) \times 3^2 \times 14 = 396 \text{ cm}^3$$

Volume of cylinder is 396 cm^3 .

56. Answer: b

Explanation:

Solution:

$$2 \text{ of } 8 \div 3 + 3 \frac{4}{5} \div x - 4 \frac{7}{9} = 6 \frac{8}{9}$$

$$\Rightarrow (16 / 3) + (19 / 5x) - (43 / 9) = 62 / 9$$

$$\Rightarrow 19 / 5x = (62 / 9) - (16 / 3) + (43 / 9)$$

$$\Rightarrow 19 / 5x = 57 / 9$$

$$\Rightarrow x = 3 / 5$$

Thus value of x is 3 / 5.

57. Answer: a

Explanation:

Given:

Man borrows Rs. 15,000 at 15% p.a. compound interest

At the end of every year, he pays Rs. 2,500 as part repayment

Formula used:

$$A = P(1 + R/100)^T$$

Calculation:

$$\text{Amount which has to paid after 1 year} = A = P(1 + R/100)^T$$

$$\Rightarrow 15000(1 + 15/100)^1$$

$$\Rightarrow 15000 \times 115/100$$

$$\Rightarrow 17250$$

After 1 year he paid 2500 then the rest amount = 17250 - 2500 \Rightarrow 14750

$$\text{Amount which has to pay after 2nd year} = 14750(1 + 15/100)^1$$

$$\Rightarrow 14750(115/100)$$

$$\Rightarrow 1696250/100$$

$$\Rightarrow 16962.5$$

After 2nd year he paid 2500 then the rest amount = $16962.5 - 2500 \Rightarrow 14462.5$

Amount which has to pay after 3rd year = $14462.5(1 + 15/100)^1$

$\Rightarrow 14462.5(115/100)$

$\Rightarrow 1663187.5/100$

$\Rightarrow 16631.875$

After 3rd year he paid 2500 then the rest amount = $16631.875 - 2500 \Rightarrow 14131.875$

\therefore He still owes after three such installments Rs.14131.87

58. Answer: a

Explanation:

Given:

$$\Rightarrow \frac{3}{5} \div 4 \frac{4}{5} \text{ of } \frac{5}{16} + \frac{2}{3} \div \frac{8}{15} \times 1 \frac{1}{5} - \frac{1}{4} \times \frac{3}{4} \div 1 \frac{1}{4} \text{ of } \frac{2}{5}$$

Concept used:

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

Calculation:

$$\Rightarrow \frac{3}{5} \div 4 \frac{4}{5} \text{ of } \frac{5}{16} + \frac{2}{3} \div \frac{8}{15} \times 1 \frac{1}{5} - \frac{1}{4} \times \frac{3}{4} \div 1 \frac{1}{4} \text{ of } \frac{2}{5}$$

$$\Rightarrow \frac{3}{5} \div \frac{24}{5} \text{ of } \frac{5}{16} + \frac{2}{3} \div \frac{8}{15} \times \frac{6}{5} - \frac{1}{4} \times \frac{3}{4} \div \frac{5}{4} \text{ of } \frac{2}{5}$$

$$\Rightarrow \frac{3}{5} \div \frac{24}{5} \times \frac{5}{16} + \frac{2}{3} \div \frac{8}{15} \times \frac{6}{5} - \frac{1}{4} \times \frac{3}{4} \div \frac{5}{4} \times \frac{2}{5}$$

$$\Rightarrow \frac{3}{5} \div \frac{3}{2} + \frac{2}{3} \div \frac{8}{15} \times \frac{6}{5} - \frac{1}{4} \times \frac{3}{4} \div \frac{1}{2}$$

$$\Rightarrow \frac{3}{5} \times \frac{2}{3} + \frac{2}{3} \times \frac{15}{8} \times \frac{6}{5} - \frac{1}{4} \times \frac{3}{4} \times \frac{2}{1}$$

$$\Rightarrow \frac{2}{5} + \frac{3}{2} - \frac{3}{8}$$

$$\Rightarrow \frac{61}{40}$$

59. Answer: c

Explanation:

Given:

Average of five consecutive even numbers = 36

Formula used:

Average = Sum of total number / Total number

Calculation:

Let the five consecutive even numbers are $x, (x + 2), (x + 4), (x + 6), (x + 8)$

Average = Sum of total number / Total number

$$\Rightarrow 36 = \frac{x+(x+2)+(x+4)+(x+6)+(x+8)}{5}$$

$$\Rightarrow 36 = (5x + 20)/5$$

$$\Rightarrow 36 = x + 4$$

$$\Rightarrow x = 36 - 4$$

$$\Rightarrow x = 32$$

Now,

$$x + 2 = 32 + 2 = 34$$

$$x + 4 = 32 + 4 = 36$$

$$x + 6 = 32 + 6 = 38$$

$$x + 8 = 32 + 8 = 40$$

So, the five consecutive even numbers are 32, 34, 36, 38, 40

Now, the next five consecutive odd numbers 41, 43, 45, 47, and 49.

Average = Sum of total number/Total number

$$\text{Average} = \frac{32+34+36+38+40+41+43+45+47+49}{10} = \frac{405}{10}$$

$$\text{Average} = 40.5$$

∴ The average of all the numbers is 40.5

60. Answer: c

Explanation:

Given:

Ratio of A & B is 7 : 9

Total amount = 1,26,672

Calculation:

$$A : B = 7 : 9$$

$$A = 7x, B = 9x$$

$$\text{Sum of } A + B = 16x$$

Difference between A & B = $2x$

Now, $16x = 1,26,672$

So, $2x = \frac{1,26,672 \times 2}{16} = 15834$

So, the difference between A & B is 15834.

61. Answer: c

Explanation:

Given:

The perimeter of the rectangular sheet = 40 m

Area of the rectangular sheet = 72 m^2

Concept used:

If l and b be the length and breadth of a rectangle then the diagonal = $\sqrt{l^2 + b^2}$

Formula used:

Area of rectangle = $l \times b$

Perimeter of rectangle = $2(l + b)$

And $(a + b)^2 = a^2 + b^2 + 2ab$

Calculation:

Let ' l ' and ' b ' be the sides of the rectangle

$\Rightarrow l \times b = 72 \text{ m}^2$

and $2(l + b) = 40 \text{ m}$

$\Rightarrow (l + b) = 20 \text{ m}$

$$\text{Now, } (l + b)^2 = l^2 + b^2 + 2lb$$

$$\Rightarrow (20)^2 = l^2 + b^2 + 2(72)$$

$$\Rightarrow 400 = l^2 + b^2 + 144$$

$$\Rightarrow (l^2 + b^2) = 400 - 144 = 256$$

$$\text{So, the diagonal of the rectangular sheet} = \sqrt{l^2 + b^2} = \sqrt{256} = 16$$

Hence, the required diagonal is 16 m.

★ Shortcut Trick

$$\text{The diagonal of the rectangular sheet} = \sqrt{(l + b)^2 - 2lb} = \sqrt{(20)^2 - 2 \times 72}$$

$$\Rightarrow \sqrt{400 - 144} = \sqrt{256} = 16$$

∴ The diagonal of the rectangular sheet is 16 m.

62. Answer: a

Explanation:

Given:

Profit of A = 20%

Loss of B = 12% or Rs. 72

Profit of C = 25%

Concept used:

If A sold an article to B, then SP of A is equal to CP of B

Formula used:

$$SP = CP - \text{Loss}$$

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

Calculation:

Let CP of B be Rs. $100x$

$$\Rightarrow \text{Loss} = 12x$$

$$\Rightarrow \text{SP of B} = 100x - 12x = 88x$$

Also, loss of B = Rs. 72

$$\Rightarrow 12x = 72$$

$$\Rightarrow x = 6$$

$$\Rightarrow \text{SP of B} = 88x = 88 \times 6 = 528$$

Now, SP for B = CP for C = Rs. 528

As profit of C = 25%

$$\Rightarrow \text{SP of C} = 528 \times (100 + 25)/100 = 528 \times 5/4$$

$$\Rightarrow \text{SP of C} = 660$$

Here SP for C = CP for D

$$\Rightarrow \text{CP for D} = 660$$

\therefore The correct answer is Rs. 660

63. Answer: a

Explanation:

Given:-

Speed of train is decreased by 25%

And it takes 42 min more to cover the same distance.

Formula used:-

$$\text{Time} = \text{Distance}/\text{Speed}$$

Calculation:-

Let Time be 't', Distance be 'd', and Speed be 's'

Case-1

$$\text{Time}(t) = d/s$$

$$\therefore d = t \times s \quad \dots(i)$$

Case-(2).

$$t + 42/60 = d/(0.75 \times s) \quad \because (42 \text{ mins} = 42/60 \text{ hours})$$

$$\therefore d = (t + 7/10) \times (0.75 \times s)$$

$$d = (10t + 7)/10 \times (0.75 \times s) \quad \dots(ii)$$

From equation (i) and (ii)

$$t \times s = [(10t + 7) \times (0.75 \times s)]/10$$

$$10t = 7.5t + 5.25$$

$$2.5t = 5.25$$

$$t = 2.1 \text{ hours or } 21/10 \text{ hours}$$

\therefore Time taken by train is $2 \frac{1}{10}$ hours.

64. Answer: b

Explanation:

Given:

A plot is sold for Rs. 34,080 and the owner loses 20%.

Formula used:

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

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

Calculation:

Plot is sold for Rs. 34,080 and the owner loses 20%

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

$$\Rightarrow 20 = \frac{CP-34080}{CP} \times 100$$

$$\Rightarrow 20CP = 100CP - 3408000$$

$$\Rightarrow 100CP - 20CP = 3408000$$

$$\Rightarrow 80CP = 3408000$$

$$\Rightarrow CP = 3408000/80 = 42600$$

Again,

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

$$\Rightarrow 20 = \frac{SP-42600}{42600} \times 100$$

$$\Rightarrow 20 \times 42600 = 100SP - 4260000$$

$$\Rightarrow 852000 = 100SP - 4260000$$

$$\Rightarrow 100SP = 852000 + 4260000$$

$$\Rightarrow SP = 5112000/100 = 51120$$

\therefore The plot is sold for Rs. 51120.

65. Answer: d

Explanation:

Given:

32 workers working for 9 hours a day can finish work in 14 days

$$M_1 = 32$$

$$H_1 = 9 \text{ hours}$$

$$D_1 = 14 \text{ days}$$

$$H_2 = 8 \text{ hours}$$

$$D_2 = 18 \text{ days}$$

Concept used:

$$M_1 \times H_1 \times D_1 = M_2 \times H_2 \times D_2$$

Calculation:

$$\Rightarrow 32 \times 9 \times 14 = M_2 \times 8 \times 18$$

$$M_2 = 4032/144$$

$$M_2 = 28$$

\therefore 28 workers are required to finish the same work in 18 days.

66. Answer: c

Explanation:

Given:

Ravi borrowed (P_1) = Rs. 1,800

Ravi borrowed (P_2) = Rs. 2,800

Rate (r_1) = 6%

Rate (r_2) = 7%

Total interest ($SI_1 + SI_2$) = Rs. 2,736

Shiv borrowed (P_3) = Rs. 2,500

Rate (r_3) = 8%

Formula used:

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

Calculation:

Let, Time = T

$$SI_1 = 1800 \times 6 \times T/100$$

$$SI_2 = 2800 \times 7 \times T/100$$

$$SI_1 + SI_2 = (1800 \times 6 \times T/100) + (2800 \times 7 \times T/100)$$

$$\Rightarrow 2736 = 304T$$

$$T = 9 \text{ years}$$

According to question

$$\text{Simple interest of Shiv } (SI_3) = 2500 \times 8 \times 9/100$$

$$SI_3 = \text{Rs. } 1,800$$

$$\text{Shiv had to pay to clear off the loan} = P_3 + SI_3$$

$$\Rightarrow 2500 + 1800$$

⇒ 4300

∴ Shiv had to pay to clear off the loan of Rs. 4,300.

67. Answer: b

Explanation:

Given:

Three successive discounts of 8%, 12.5%, and 20%

Formula used:

Single equivalent discount = $x + y - \frac{xy}{100}$

Calculation:

Let Price = 100

The sale price after three successive discounts = Price $\times (1 - \frac{x}{100}) (1 - \frac{y}{100}) (1 - \frac{z}{100})$

⇒ $100 \times (1 - \frac{8}{100}) (1 - \frac{12.5}{100}) (1 - \frac{20}{100})$

⇒ $100 \times (\frac{92}{100}) (\frac{87.5}{100}) (\frac{80}{100})$

⇒ 64.4

Now,

Single equivalent discount = $100 - 64.4$

∴ The single equivalent discount is 35.6%

68. Answer: c

Explanation:

Calculation:

According to question,

$$\Rightarrow 440 \times 35/100 = 154$$

Let the number be x added so that

The sum may be equal to 42% of 550

$$\Rightarrow 154 + x = 550 \times 42/100$$

$$\Rightarrow 154 + x = 231$$

$$\Rightarrow x = 77$$

\therefore The Required number is 77

69. Answer: a

Explanation:

Given:

Car covers a distance in 6 hours.

The speed been increased by 10 km/h, then

The same distance could have been covered in 5 hours.

Formula used:

$$\text{Distance} = \text{Speed} \times \text{Time}$$

Calculation:

Let the speed of car be S km/h

According to the question,

The same distance is covered in both case

$$S \times T_1 = (S + 10) \times T_2$$

$$\Rightarrow S \times 6 = (S + 10) \times 5$$

$$\Rightarrow S \times 6 = S \times 5 + 50$$

$$\Rightarrow 6S - 5S = 50$$

$$\Rightarrow S = 50 \text{ km/h}$$

Distance = Speed \times Time

$$\Rightarrow 50 \times 6 = 300 \text{ km}$$

\therefore The Required distance is 300 km.

70. Answer: c

Explanation:

Given:

Some eggs bought at Rs. 60/dozen

And some eggs bought at Rs. 50/dozen

All eggs sold at Rs. 70/dozen

Profit = Rs. 930

Calculation:

Let 1 dozen eggs was bought at each rate

Then CP of 2 dozen eggs = 50 + 60 = Rs. 110

Now, SP of 2 dozen eggs = $2 \times 70 = \text{Rs. } 140$

Profit at 2 dozen eggs = $140 - 110 = \text{Rs. } 30$

When profit is Rs. 30 then 2 dozen eggs are bought

When profit is Rs. 930 then 62 dozen eggs are bought

\therefore The correct answer is 62 dozens.

71. Answer: d

Explanation:

Given:

Marked price = 700, Discount = 35 %

Solution:

Selling price = $700 \times (100 - 35) / 100$

$\Rightarrow 700 \times 65 / 100$

$\Rightarrow 455$

According to question,

Selling price = $(5/3) \times \text{Cost price}$.

$\Rightarrow 455 = (5/3) \times \text{Cost price}$.

Cost price = $(455 \times 3) / 5$

$\Rightarrow 273$

Thus Cost price of the article is Rs . 273.

72. Answer: b

Explanation:

Calculation:

Number of rows = 6, 10, 12 and 15.

LCM = 6, 10, 12 and 15

$$\Rightarrow 6 = 2 \times 3$$

$$\Rightarrow 10 = 2 \times 5$$

$$\Rightarrow 12 = 2 \times 2 \times 3$$

$$\Rightarrow 15 = 5 \times 3$$

$$\text{LCM} = 2 \times 3 \times 5 \times 2 = 60$$

There are two 2 which gives a square of 2 but only one 3 and one 5 so, to get a perfect square number we have to multiply 60 by 3 and 5.

The perfect square is $60 \times 3 \times 5 = 900$.

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73. Answer: c

Explanation:

Given:

Total mixture = 35 liter

Milk and water ratio = 3 : 2

4 Litres of this mixture be replaced by 4 Litres of milk

Calculation:

Let the amount of milk and water in 35 liter mixture is $3x$ and $2x$
If 4 liter of mixture is replaced by 4 liter of milk

$$\text{Now, milk} = 3x + 4$$

$$\text{Water} = 2x$$

$$\text{Then, } 3x + 4 + 2x = 35$$

$$\Rightarrow x = \frac{31}{5}$$

In the new mixture ratio of milk and water is $\frac{3x+4}{2x}$

$$= \frac{3 \times \frac{31}{5} + 4}{2 \times \frac{31}{5}} = \frac{113}{62}$$

74. Answer: a

Explanation:

Given:-

$$P:Q:R = 13:17:25$$

$$R = 6800 + Q$$

Calculation:-

Let the sum of money be 'x'

$$P\text{'s share} = (13x)/55$$

$$Q\text{'s share} = (17x)/55$$

$$R\text{'s share} = (25x)/55$$

$$\therefore R\text{'s share} = 6800 + Q\text{'s share}$$

$$\Rightarrow (25x)/55 = 6800 + (17x)/55$$

$$\Rightarrow (25x - 17x)/55 = 6800$$

$$\Rightarrow 8x/55 = 6800$$

$$\Rightarrow x = (6800 \times 55)/8$$

$$\Rightarrow x = 850 \times 55$$

$$\Rightarrow x = 46750$$

$$\therefore \text{P's share} = (13 \times 46750)/55$$

$$\Rightarrow 11050$$

$$\text{Q's share} = (17 \times 46750)/55$$

$$\Rightarrow 14450$$

$$\therefore \text{Difference b/w P and Q's share} = 14450 - 11050$$

$$\Rightarrow 3400$$

$$\therefore \text{Difference b/w P and Q's share is 3400}$$

75. Answer: a

Explanation:

Given:

Student got 160.

He required 50 number more to secure minimum 35% marks.

Calculation:

Let the maximum number be x.

Total marks required for the student to pass = $160 + 50 = 210$

So, 35 % of x = 210

$$\Rightarrow \frac{35}{100} x = 210$$

$$\Rightarrow x = 600$$

∴ The maximum mark is 600.

76. Answer: a

Explanation:

The correct answer is 'Mannequin'.

★ Key Points

- The one-word substitute for the given group of words is 'Mannequin.'
- The marked option Mannequin means a model of a human body used for displaying clothes in shop windows.
 - Example: That mannequin outside that clothing store looked so real to me.
- Therefore, the correct answer is option 1.

77. Answer: c

Explanation:

The correct answer is 'than Mr. Sen.'

★ Key Points

- We know that this is a grammatically incorrect sentence.
- We need to choose that segment as our marked option which is erroneous.
- In this the error lies in 'than Mr. Sen' part of the sentence.
- Instead of 'than', we need to use 'To' for making this sentencing error-free.
- Here, the concept of prepositions is brought under consideration. Words like 'senior, anterior, posterior, junior' take the preposition 'to' after them.
- As per the above rule, we will use 'senior to'.

- Thus, the correct answer is **option 3**.
-

78. Answer: d

Explanation:

The correct answer is 'works'.

★ Key Points

- The given sentence is grammatically incorrect.
 - The error lies in underlined segment .
 - As the given sentence is an unconditional sentence, the main clause should be in the future tense and the subordinate clause should be in the present indefinite tense.
 - Let's consider the structure of this condit
-

79. Answer: c

Explanation:

The correct answer is 'To become upset or angry'.

★ Key Points

- The given idiom 'To lose one's head' means to become very upset or angry.
 - Example: Our team captain stays calm in adverse situations and does not lose his head.
 - Therefore, from the given meaning and the example sentence, the most appropriate meaning is 'to become upset or angry'.
 - Hence, the correct answer is option 3.
-

80. Answer: b

Explanation:

The correct answer is 'can live for an extremely long time'.

★ Key Points

- The given sentence has an underlined segment.
- We need to substitute that underlined segment if there is any grammatical error in it.
- In this question, in the underlined segment, there is inappropriate usage of prepositions and therefore we need to substitute it.
- Preposition 'for' is used for saying how long something lasts .
- Thus, it is clear that instead of can live in , we will use 'can live for' to make this sentence grammatically and contextually correct.
- Hence, the correct answer is option 2.

81. Answer: a

Explanation:

The correct answer is 'thinking of an excuse'.

★ Key Points

- We have to choose a segment which is having a grammatical error.
- This sentence is not grammatically correct.
- The error lies in part 2 of the sentence.
- Here, instead of 'thinking of an excuse' we need to substitute with 'to think of an excuse' .
- Infinitive form is the based form of the verb . It's structure is v1+base form.
- Infinitives can be used after certain verbs including , ask, decide, help, plan, hope, learn, want, would like, and promise.

- Therefore, from the list of the words mentioned above, it is correct to use 'to think' after agreed in the given sentence.
 - Hence, the correct answer is option 1.
-

82. Answer: a

Explanation:

The correct answer is 'Indifference'.

★ Key Points

- The given word 'Remorse' means a feeling of sadness and being sorry for something you have done.
 - *Example:* He felt no **remorse** after bullying that innocent child.
 - The marked option 'Indifference' means a lack of interest or feeling towards somebody/something.
 - From the given meaning and the example sentence, it is clear that '**remorse**' and '**indifference**' are antonyms of each other.
 - Thus, the correct answer is **option 1**.
-

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83. Answer: a

Explanation:

The correct answer is 'indebted'.

★ Key Points

- One word substitution for 'Owing money to someone' is Indebted.
 - **Example** : I am deeply indebted to him for financial help during the crises.
 - Therefore, the correct word for the given group of words is Indebted.
 - Hence, the correct answer is option 1.
-

84. Answer: a

Explanation:

The correct answer is 'schemes'.

★ Key Points

- In this question, we need to choose the correctly spelled word from the given four options.
- Here, the marked option 'Schemes' is an organized plan for doing something.
 - Example: Salesman lures customers with attractive schemes on products.
- From the above meaning and the example sentence, it is clear that the correctly spelled word is 'Schemes'.
- All other spellings are erroneous here.
- Therefore, the correct answer is option 1.

85. Answer: d

Explanation:

The correct answer is Cooperate.

★ Key Points

- The marked option 'Cooperate' means to act or work together for a shared purpose.
 - Example: If we all cooperate, I'm sure we'll be able to complete it on time.
- The given sentence implies that we need to work together and be compliant with the police and listen to their advice.
- Hence, from the given example and the meaning of the given word, it is clear that the most appropriate word is 'Cooperate'.
- Therefore, the correct answer is **option 4**.

86. Answer: c

Explanation:

The correct answer is 'Separated'.

★ Key Points

- United means joined or closely connected by feelings.
- The marked option 'Separated' means to set or keep apart.
- From the above meaning of the marked option, it is clear that the given word and the marked options are antonyms of each other.
- Therefore, the correct answer is option 3.

87. Answer: a

Explanation:

The erroneous segment is 'Why john'.

★ Key Points

- The given sentence is having an erroneous segment.
- 'Why john' is an erroneous part here in the given sentence.
- The sentence is beginning with Wh-phrase (Why) and it shows that the sentence is interrogative in nature.
- In the beginning, why is already there so it does not make sense to use another why before the main subject 'john' in this case.
- Hence, we will remove why before the subject 'john' for making this sentence free from any grammatical error.
- Therefore, the correct answer is **option 1**.

88. Answer: d

Explanation:

The correct answer is '**Interested**'.

★ Key Points

- The given sentence 'Nobody seems to be _____ in visiting museums.' requires an appropriate word from the given options.
- The marked option '**interested**' means having an interest or share; concerned.
- Yes, the given sentence implies that nobody seems to be concerned or interested in visiting museums.
- Thus, the word '**interested**' fits well in the given context.
- Therefore, the correct answer is **option 4**.

89. Answer: b

Explanation:

The correct answer is 'board'.

★ Key Points

- The given sentence needs an appropriate word to be filled in the given blank.
- The marked option 'board' means a group of persons having supervisory, managerial, investigatory, or advisory powers.
- Board is actually a one-word substitute for the group of people who are responsible for controlling and organizing a company or organization.
- So, it fits well in the given context and is the most appropriate word to fill the given blank.
- Thus, the correct answer is **option 2**.

90. Answer: a

Explanation:

The correct answer is 'Pierce'.

★ Key Points

- The given word -Perforate means to make a hole or holes through by boring, punching, piercing, or the like.
 - Example: It is advised to hear rock songs at low volume in order to prevent eardrums to get perforated.
- The marked option 'pierce' means to go in or through something.
- From the given option and the marked option meanings, it is clear that both are synonyms of each other.
- Hence the correct answer is **option 1**.

91. Answer: b

Explanation:

The correct answer is -No substitution required.

★ Key Points

- The given sentence is having no error.
- The given sentence is grammatically correct sentence.
- The given sentence implies that Vanilla ice cream along with chocolate sauce is speaker's favourite.
- Here, the preposition with in the underlined segment is correct .
- Thus, the correct answer is option 2.

92. Answer: c

Explanation:

The correct answer is 'event that seemed bad at first but resulted in something good later'.

★ Key Points

- We need to explore the meaning of the underlined segment in the given sentence in this question.
- A blessing in disguise : an apparent misfortune that eventually has good results.
 - Example: Losing that hectic job was a blessing in disguise.
- Therefore, from the given idiom meaning and the example sentence , we are clear that it means ' event that seemed bad at first but resulted in something good later'.
- Therefore, the correct answer is option 3.

93. Answer: c

Explanation:

The erroneous spelling is 'Comission' .

★ Key Points

- The marked option 'Comission' is erroneous here, as its correct spelling is ' **commission** ' .
- 'Commission' means a formal request to do a special piece of work for payment.
- Therefore, the correct answer is **option 3** .

94. Answer: c

Explanation:

The correct answer is 'Cruel'.

★ Key Points

- The given word 'Brutal' means cruel and violent.
 - Example : His reply was blunt and brutal .
- Therefore, the given meaning of the word 'Brutal' we can say that the marked option 'cruel' is its **synonym**.
- **The** correct answer is option 3.

95. Answer: d

Explanation:

The correct answer is 'Edible'.

★ Key Points

- One word for 'Able to be eaten' from the given options is :
- The marked option Edible means suitable or safe for eating, able to be eaten.
 - **Example** : *Only the leaves of this wild plant are edible.*
- Therefore, the correct answer is 'matrimony' which is **option 4**.

★ Additional Information

- **Decibel** is a unit for measuring the loudness of sound.
- **Scribble** is to write or draw hastily or carelessly.
- **Hobble** is to walk with difficulty in an awkward way.

96. Answer: c

Explanation:

The correct answer is 'Rises'.

★ Key Points

- 'When the temperature (1) _____ during the summer season, many people choose to use air-conditioners to keep their homes and offices cool.' this sentence requires an appropriate word from the given options.
- The marked option 'rises' means to move upwards, to increase in amount.
- In this given context, the word 'rises' fits well as it denotes that when temperature increases during the summer season, many people choose to use air-conditioners to keep their homes and offices cool.
- Thus, the most appropriate option to fill in the blank number 1 is **option 3**.

97. Answer: a

Explanation:

The correct answer is 'necessity'.

★ Key Points

- The given sentence '*Air-conditioners, which were once regarded as a luxury, have now almost become a/an (2) _____.*' requires an appropriate word from the given options :
- Let us explore the meanings of given options for the blank number 2.
- The marked option 'necessity' means something that you need, especially in order to live.
- Demand means a consumer's desire to buy goods and services without any hesitation and pay the price for it.
- Urgency means the quality or state of being urgent.
- Essence means the basic or most important quality of something.
- Therefore, as per the given context , 'necessity' is the most appropriate word to be filled in the blank number 2 .
- Hence, the given answer is **option 1**.

98. Answer: a

Explanation:

The given answer is 'improve'.

★ Key Points

- The given sentence 'The air-conditioning system not only cools the indoor air down but also filters out harmful pollutants. This helps reduce dust, pollen and ,allergens inside the home, and (3)_____ ' conveys that airconditioning helps to reduce dust,pollen and allergies inside the home and thus refine inside atmosphere.
- From the given context, out of the given options, the most appropriate word is 'improve'.
- Hence, the correct answer is option 1.

99. Answer: a

Explanation:

The correct answer is 'benefits'.

★ Key Points

- The given sentence ' However, along with the (4)_____ ' requires an appropriate word from the given options .
- Benefits mean an advantage or useful effect that something has.
- In this particular paragraph and in this sentence, the narrator brings a contrast to its earlier statement with the usage of the word 'however'.
- We need to choose that word from the given options which is an antonym of 'disadvantages'.
- Therefore, benefits is the most appropriate word as it is having opposite meaning to 'disadvantage' and explains the context .

- Hence, the correct answer is option 1.

100. **Answer: a**

Explanation:

The correct answer is 'could lead'.

★ Key Points

- In this sentence , 'A major disadvantage is that if the filter inside the air-conditioner is not cleaned and maintained regularly, it (5)_____ to problems such as allergic colds, fever, headaches and dryness of the skin. ' we need a modal verb .
- Modal verbs always accompany the base infinitive form of another verb having semantic content.
- The modal verbs commonly used are -can, could,dare,would,should etc.
- From the commonly used modal verbs, could is the only word that is given in option number 1.
- Hence, we are sure that the correct answer is **option 1**.

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