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Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 26 Oct 2021 Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

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

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

General English

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

The pen I _____ five years ago is still writing well.

- a. have bought
- b. bought
- c. has bought
- d. buy

2. Select the most appropriate word which means the same as the group of words given. (+1, -0.25)

Force someone through fear to do or not to do something

- a. Intimidate
- b. Murder
- c. Subjugate
- d. Control

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

Play safe

- a. Do something following rules
- b. Play a game without getting hurt
- c. Play a game steadily

d. Avoid risks and take precautions

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

Feel the pinch

- a. Be in an agitated state of mind
 - b. Face financial difficulties
 - c. Listen carefully
 - d. Maintain total silence
-

5. Choose the correctly spelt word. (+1, -0.25)

- a. Readiater
 - b. Radieter
 - c. Redieter
 - d. Radiator
-

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

Anshima was too exhausted to continue the race.

- a. much exhausted to
- b. No substitution required

- c. too exhausted for
 - d. so exhausted to
-

7. Select the most appropriate option to substitute the underlined segment in the given sentence. (+1, -0.25)

One of the rooms in the new house had not yet been completed.

- a. is not yet been completed
 - b. are not yet been completed
 - c. has not yet been
 - d. have not yet been
-

8. The given sentence contains a grammatical error. Identify the segment that contains the error. (+1, -0.25)

While he was running along the garden path, he has tripped over a big stone.

- a. While he was running
 - b. along the garden path
 - c. he has tripped
 - d. over a big stone
-

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

The development of solar energy is of _____ interest, as it is a possible substitute for oil.

- a. compound
 - b. usual
 - c. global
 - d. simple
-

10. Select the most appropriate word which means the same as the group of words given. (+1, -0.25)

A shortage of vitamins, minerals, etc. needed for good health

- a. Disease
 - b. Nutrition
 - c. Defect
 - d. Deficiency
-

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

BARRIER

- a. Obstacle
 - b. Hindrance
 - c. Opening
 - d. Advocate
-

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

Anant went to the park every evening to exercise at his friends.

- a. in exercising between
- b. to exercise with
- c. No substitution required
- d. on exercising along

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

CLEAR

- a. Doubt
- b. Open
- c. Dim
- d. Known

14. Choose the correctly spelt word. (+1, -0.25)

- a. Saround
- b. Surround
- c. Sarrund
- d. Surrond

15. The given sentence contains a grammatical error. Identify the segment that contains the error. (+1, -0.25)

My sister prefers tea than coffee in the afternoon after lunch.

- a. tea than coffee
- b. in the afternoon
- c. after lunch
- d. My sister prefers

16. The given sentence contains a grammatical error. Identify the segment that contains the error. (+1, -0.25)

If I am you, I wouldn't take the risk of going to the market.

- a. the risk of
- b. If I am you
- c. I wouldn't take
- d. going to the market

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

The _____ of an atom of oxygen is different from that of an atom of hydrogen.

- a. value
- b. procedure

- c. structure
 - d. position
-

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

BANISH

- a. Exile
 - b. Paint
 - c. Scrape
 - d. Invent
-

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

The effects of the fuel price hike _____ severely even now.

- a. were being felt
 - b. are being felt
 - c. has been felt
 - d. is being felt
-

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

DISCOVER

- a. Shut
- b. Close

- c. Find
- d. Search

21. In the following passage, some words have been deleted. Fill in the blanks with the help of the options given. Select the most appropriate option for each blank. (+1, -0.25)

The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more powerful (1) _____ the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much (2) _____ but more powerful than the computers of about sixty years ago. Now a standard smart phone has (3) _____ replaced computers for many households because many internet services are now (4) _____ on the smart phone. In its early years, mobile internet was (5) _____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.

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

- a. for
- b. than
- c. from
- d. then

22. In the following passage, some words have been deleted. Fill in the blanks with the help of the options given. Select the most appropriate option for each blank. (+1, -0.25)

The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more powerful (1) _____ the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much (2) _____ but more powerful than the computers of about sixty years ago. Now a standard smart phone has (3) _____ replaced computers for many households because many internet services are now (4) _____ on the smart phone. In its early years, mobile internet was (5) _____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.

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

- a. harder
- b. sharper
- c. smaller
- d. bigger

23. In the following passage, some words have been deleted. Fill in the blanks (+1, -0.25) with the help of the options given. Select the most appropriate option for each blank.

The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more powerful (1) _____ the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much (2) _____ but more powerful than the computers of about sixty years ago. Now a standard smart phone has (3) _____ replaced computers for many households because many internet services are now (4) _____ on the smart phone. In its early years, mobile internet was (5) _____ used only for email. Moreover, monthly data use per

subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.

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

- a. effectively
- b. faithfully
- c. productively
- d. predictably

24. In the following passage, some words have been deleted. Fill in the blanks (+1, -0.25) with the help of the options given. Select the most appropriate option for each blank.

The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more powerful (1) _____ the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much (2) _____ but more powerful than the computers of about sixty years ago. Now a standard smart phone has (3) _____ replaced computers for many households because many internet services are now (4) _____ on the smart phone. In its early years, mobile internet was (5) _____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.

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

- a. unavailable
- b. accessible
- c. inaccessible

d. expensive

25. In the following passage, some words have been deleted. Fill in the blanks with the help of the options given. Select the most appropriate option for each blank. (+1, -0.25)

The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more powerful (1) _____ the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much (2) _____ but more powerful than the computers of about sixty years ago. Now a standard smart phone has (3) _____ replaced computers for many households because many internet services are now (4) _____ on the smart phone. In its early years, mobile internet was (5) _____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.

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

- a. efficiently
- b. primarily
- c. importantly
- d. secondarily

General Intelligence & Reasoning

26. Two statements are given, followed by two conclusions numbered I and II. (+1, -0.25)
Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All Tools are Hardware.

All Hardware is Metallic.

Conclusions:

I. All Metallic are Tools.

II. All Tools are Metallic.

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

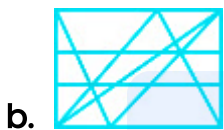
-
27. Select the number-pair in which the numbers are related in the same way as are in the given pair. (+1, -0.25)

10.3 : 0.0103

- a. 2.80 : 0.0280
- b. 020 : 0.002
- c. 2.80 : 0.00280

d. 020 : 0.20

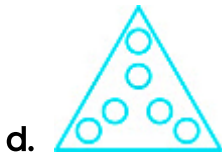
28. Identify the option in which the following figure is embedded (rotation is NOT applicable). (+1, -0.25)



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29. A paper is folded and cuts as shown in the following figures. How will it appear when unfolded? (+1, -0.25)





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

(132, 126, 117)

a. (122, 117, 19)

b. (118, 111, 102)

c. (124, 117, 108)

d. (138, 132, 125)

31. Which letter- cluster will replace the question mark (?) in the following letter-cluster series? (+1, -0.25)

USQ, NLJ, GEC, ?

a. ZXV

b. ZWT

c. AYW

d. YWU

32. Which number will replace the question mark (?) in the following numbers series? (+1, -0.25)

6, 12, 9, 36, 31, 186, ?

a. 190

b. 208

c. 211

d. 179

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

Right : Correct :: Peak : ?

a. Hill

b. Valley

c. Tall

d. Top

34. Select the correct sequence of mathematical signs to sequentially replace * signs so as to balance the given equation. (+1, -0.25)

$46 * 12 * 32 * 8 * (96 * 23) = 437$

- a. $-, \times, +, \div, +$
- b. $\div, -, \times, +, -$
- c. $+, \times, -, \div, -$
- d. $\times, +, \div, -, +$

35. In the Venn diagram shown below, the relationship between which options is correctly represented? (+1, -0.25)

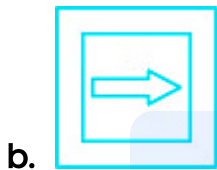
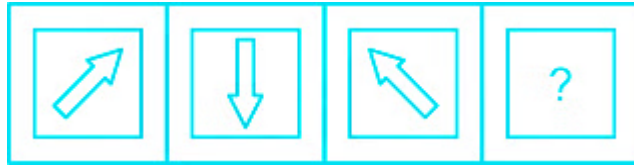


- a. Carrots, Food, Dressing Table
- b. Polygons, Quadrilateral, Circles
- c. Furniture, Chairs, Tables
- d. Birds, Dogs, Peacocks

36. In a certain code language, if DOUBLE is written as FRYGRL, then how will METHYL be written in the same code language? (+1, -0.25)

- a. GRXFQJ
- b. OHXMES
- c. GRXEOH
- d. FQYFRK

37. Select the figure that will replace the question mark (?) in the following figure series. (+1, -0.25)



38. Select the correct alternative to indicate the sequential order of the following names (geographical location). (+1, -0.25)

1. Maharashtra
2. Rajasthan
3. Karnataka
4. Gujarat

5. Kerala

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

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



a. 

b. 

c. 

d. 

40. Six persons are sitting around a circular table facing the centre. W is to the immediate left of X, who is sitting opposite Y. If V is second to the left of Y and exactly opposite U, what is the sitting location of Z? (+1, -0.25)
- Right to V
 - Right to Y
 - Opposite to X
 - Left of V

41. Select the option that can replace the question mark (?) in the figure given below to complete the pattern. (+1, -0.25)



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42. When I was going to office from my house, early morning, my shadow was formed on my left hand side. Find the direction of my house with respect to office? (+1, -0.25)

- a. North-west
- b. North
- c. East
- d. South

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

CUSTOMER : YQWXKIIV :: COMMERCIAL : ?

- a. YKQQANGMWH
- b. GSIIEREWEP
- c. GSQQIVGMEP
- d. YKIIANYEWH

44. Which number will replace the question mark (?) in the following number series? (+1, -0.25)

23, 19, 17, 13, ?

- a. 11
- b. 5
- c. 7

d. 9

-
45. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. (+1, -0.25)

Statements:

No Book is a Stone.

Some Stones are Soft.

Conclusions:

I. No Book is Soft.

II. Some Books are Soft.

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

-
46. In a certain code language, if GLADIATOR is written as TROLIGDAA, then how will SKILLFUL be written in the same code language? (+1, -0.25)

- a. FIKLLLSU
- b. USLLLKIF
- c. ULLFILSK

d. LUFLIKS

47. 'Hectare' is related to 'Area' in the same way as 'Pascal' is related to (+1, -0.25)
'-----'.

- a. Capacity
 - b. Temperature
 - c. Pressure
 - d. Energy
-

48. If in a certain code language, TICKBOX is coded as 106 and RELEASE is (+1, -0.25)
coded as 125, then how will PACKAGE be coded in the same code
language?

- a. 44
 - b. 146
 - c. 145
 - d. 45
-

49. If in a certain code language, NOTECARD is coded as 56253194, and (+1, -0.25)
OPENMIND is coded as 67554954, then how will HARDCORE be coded in
the same code language?

- a. 91843165
 - b. 81843585
 - c. 81143115
-

d. 81943695

50. Which two signs can be interchanged so as to balance the given equation? (+1, -0.25)

$$72 \div 36 + 12 \times 13 - 48 = 63$$

a. \times and \div

b. $+$ and $-$

c. $+$ and \div

d. \times and $-$

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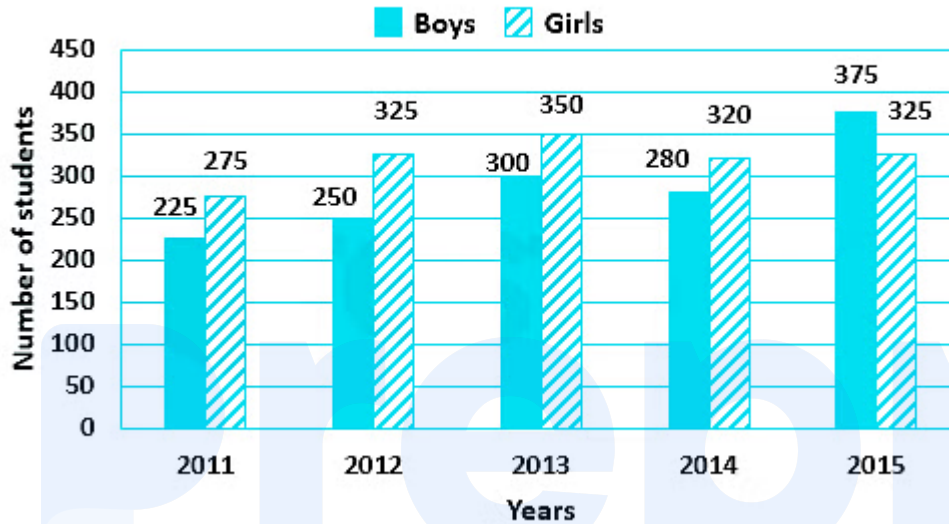
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Numerical Aptitude

51. A sum of money doubled itself at certain rate of compound interest in 15 years. In how many years will it become four times of itself? (+1, -0.25)
- a. 45
 - b. 30
 - c. 25
 - d. 15
-
52. If the length of a rectangle is increased by 80%, what would be the percentage decrease (correct to one place of decimal) in the width to maintain the same area? (+1, -0.25)
- a. 44.4%
 - b. 42.5%
 - c. 40.2%
 - d. 43.5%
-
53. A sum of money is distributed among P, Q, R and S in the ratio 3 : 4 : 5 : 6, respectively. If R gets ₹500 more than Q, then the sum of all their shares (in ₹) is: (+1, -0.25)
- a. 8,000
 - b. 9,000
 - c. 7,500

d. 6,000

54. Study the following graph that shows the number of boys and girls who appeared for the class X examination in a school XYZ, in different years. (+1, -0.25)



What is the ratio of the total number of boys who appeared for the class X examination in 2012 and 2013 to that of girls who appeared in 2012 and 2015?

- a. 11 : 15
- b. 11 : 13
- c. 15 : 11
- d. 13 : 11

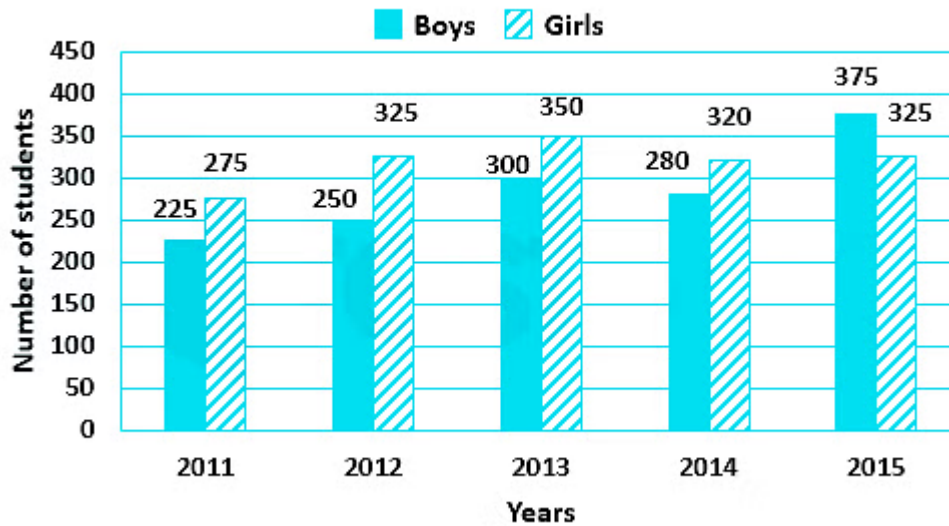
55. A car travels a distance of x km at a speed of $5\frac{5}{9}$ m/sec and returns at 5 m/sec to the starting point. If the total time taken by the car is $7\frac{3}{5}$ hours then the value of x (in km) is: (+1, -0.25)

- a. 78
 - b. 72
 - c. 80
 - d. 66
-

56. There are three positive numbers. If the average of any two of them is added to the third number, the resulting sums are 154, 148 and 132. The average of the original three numbers is: (+1, -0.25)

- a. $75\frac{1}{3}$
 - b. $72\frac{1}{3}$
 - c. $70\frac{1}{3}$
 - d. $76\frac{1}{3}$
-

57. Study the following graph that shows the number of boys and girls who appeared for the class X examination in a school XYZ, in different years. (+1, -0.25)



The average of the number of boys who appeared in 2011, 2013 and 2015 is what percentage less than the number of girls who appeared in 2012 (correct to one decimal place)?

- a. 7.7%
- b. 8.1%
- c. 8.5%
- d. 6.9%

58. 'A' can complete a work in 15 days and 'B' can complete the same work in 20 days. Working together, in how many days, will they complete 35% of the same work? (+1, -0.25)

- a. 5
- b. 3
- c. 6

d. 7

59. If the variance of 5 values is 0.81, then what is its standard deviation? **(+1, -0.25)**

a. 0.09

b. 0.9

c. 2.7

d. 0.27

60. The ratio of the speeds of two trains is 5 : 8. If the second train runs 400 km in 4 hours, then the speed of the first train (in km/h) is: **(+1, -0.25)**

a. 37

b. 62.5

c. 12.5

d. 25

61. The marked price of an article is ₹4,450. If a person earns a profit of 15% after allowing a discount of 15%, then the cost price (in ₹) (correct to the nearest integer) of the article is: **(+1, -0.25)**

a. 3,289

b. 3,378

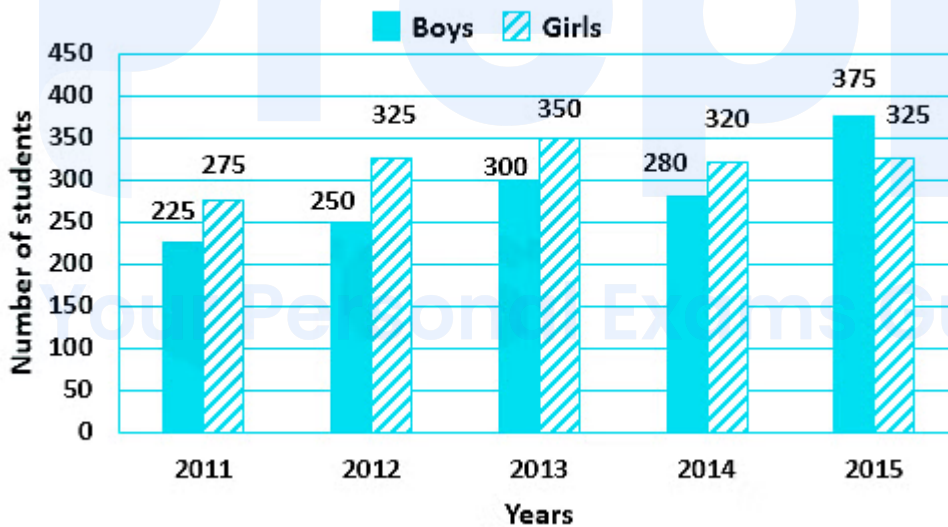
c. 3,189

d. 3,498

62. What is the simplified value of $\left[\left\{ \left(3 - \frac{2}{1 + \frac{1}{4 + \frac{2}{3}}} \right) \text{ of } 1\frac{13}{21} \div 3\frac{2}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$? (+1, -0.25)

- a. 1
- b. 2
- c. $\frac{1}{5}$
- d. $\frac{3}{10}$

63. Study the following graph that shows the number of boys and girls who appeared for the class X examination in a school XYZ, in different years. (+1, -0.25)



The total numbers of girls who appeared in 2012, 2013 and 2015 is what percentage less than the total number of boys who appeared in all the five years (correct to one decimal place)?

- a. 29.7%
- b. 30.1%

- c. 32.6%
- d. 33.3%

64. If the HCF of two numbers is 12 and LCM of the same numbers is 48, then the square root of the product of these numbers is: **(+1, -0.25)**

- a. 12
- b. 16
- c. 48
- d. 24

65. The ratio of boys and girls in a school is 35 : 39. If the average of boys and girls in the school is 740, then the number of girls in the school is: **(+1, -0.25)**

- a. 780
- b. 740
- c. 700
- d. 720

66. The value of $500 \div \frac{3}{8}$ of $\frac{2}{3} \div \left[\frac{5}{3} \text{ of } 300 + 7\frac{1}{2} \div 5\frac{1}{2} \times 1100 \right]$ is: **(+1, -0.25)**

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

d. 1

67. When an article is sold for ₹388, there is a loss of 3%. What is the selling price (in ₹) of the article, if it is sold at a gain of 8% (+1, -0.25)

- a. 412
 - b. 444
 - c. 432
 - d. 460
-

68. If the radius of a circle is increased by 19%, then by what percentage will its area increase? (+1, -0.25)

- a. 27.89%
 - b. 32.85%
 - c. 11.91%
 - d. 41.61%
-

69. When x is subtracted from each of 21, 22, 60 and 64, the numbers so obtained in this order, are in proportion, what is the mean proportional between $(x - 2)$ and $(2x + 8)$? (+1, -0.25)

- a. 16
- b. 12
- c. 10

d. 14

70. In a constituency, 60% of the voters are males and the rest are females. (+1, -0.25)
40% of the males are illiterates and 25% of females are literates. By what percentage is the number of literate males more than that of illiterate females?

- a. 20%
 - b. 17.5%
 - c. 25%
 - d. 22.5%
-

71. If the annual rate of simple interest increased from 8% to $12\frac{1}{2}\%$, a person's (+1, -0.25)
yearly income increased by ₹459. The principal amount (in ₹) is:

- a. 8,200
 - b. 12,500
 - c. 10,200
 - d. 11,250
-

72. 'A' can complete the 60% of the work in 9 days, while 'B' can complete the (+1, -0.25)
work in $7\frac{1}{2}$ days. If they work together, then in how many days will the work be completed?

- a. 7
- b. 6

c. 5

d. 4

73. An open tank is 25 m long, 12 m wide and 6 m deep. the cost (in ₹) of plastering its wall and bottom from the inside at ₹15 per m² is: (+1, -0.25)

a. 11,160

b. 13,275

c. 12,500

d. 10,800

74. The sum of the cost price of two bikes is ₹50,000. The first bike was sold at a profit of 20%, and the second bike at a loss of 20%. If the selling prices are the same, what is the cost price (in ₹) of the first bike that was sold? (+1, -0.25)

a. 20,000

b. 25,000

c. 30,000

d. 27,500

75. The total number of students in class A and B is 72. The number of students in A is 40% more than that in B. The average marks of students in B are 50% more than that of students in A. If the average marks of all students in A and B are 58, then what are the average marks of students in B? (+1, -0.25)

- a. 72
- b. 58
- c. 50
- d. 48

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General Awareness

76. Which water treaty has been signed between India and Pakistan in the year 1960? (+1, -0.25)
- a. Chenab
 - b. Beas
 - c. Indus
 - d. Jhelum
-
77. What is the melting point of ice at the sea-level at normal atmospheric pressure and at 45 degree latitude? (+1, -0.25)
- a. 256.14 K
 - b. 273.16 K
 - c. 245.18 K
 - d. 222.14 K
-
78. Which cricket team did India defeat in the finals of Men's Cricket World Cup 1983? (+1, -0.25)
- a. Australia
 - b. West Indies
 - c. Pakistan
 - d. England

79. Who among the following is regarded as the founder of Aurangabad city? (+1, -0.25)

- a. Nizam Shah
 - b. Qutub Shah
 - c. Bahloul Lodi
 - d. Malik Ambar
-

80. Cinnabar is the ore of which of the following metals? (+1, -0.25)

- a. Gold
 - b. Mercury
 - c. Platinum
 - d. Gallium
-

81. Who among the following is the author of the book 'Imaginary Homelands'? (+1, -0.25)

- a. Salman Rushdie
 - b. Khushwant Singh
 - c. Ruskin Bond
 - d. Arvind Adiga
-

82. 'Ponu Yoksi', a sword like instrument used during ceremonial dances performed by the priests, belongs to: (+1, -0.25)

- a. Himachal Pradesh
 - b. Madhya Pradesh
 - c. Uttar Pradesh
 - d. Arunachal Pradesh
-

83. Who among the following was the chairperson of the Disinvestment Commission, Ministry of Industry (Department of Public Enterprises) established in 1996? (+1, -0.25)

- a. Arundhati Roy
 - b. NK Singh
 - c. Arvind Mehta
 - d. GV Ramakrishna
-

84. Identify the city which is situated on the banks of river Sarayu. (+1, -0.25)

- a. Ayodhya
 - b. Bhopal
 - c. Kanpur
 - d. Haridwar
-

85. 'Balchao' and 'Sorpotel' are the traditional culinary dishes of: (+1, -0.25)
- a. Karnataka
 - b. Uttarakhand
 - c. Goa
 - d. Punjab
-

86. 'Bagurumba' is a _____ of the Bodo Community in Assam. (+1, -0.25)
- a. local sport
 - b. folk dance
 - c. painting style
 - d. ceremonial procession
-

87. In the Lok Sabha, discussion under which rule of the constitution of India does not involve a formal motion before the House? (+1, -0.25)
- a. Rule 123
 - b. Rule 193
 - c. Rule 146
 - d. Rule 157
-

88. In which year did India become a signatory to the CITES (Convention on International Trade in Endangered Species on Wild Fauna and Flora)? (+1, -0.25)

- a. 1980
 - b. 1983
 - c. 1976
 - d. 1975
-

89. In which Indian state will you find the river Muhuri? (+1, -0.25)

- a. Punjab
 - b. Madhya Pradesh
 - c. Uttar Pradesh
 - d. Tripura
-

90. With whom is the 'Patharughat Uprising' associated? (+1, -0.25)

- a. Lawyers' uprising
 - b. Soldiers' uprising
 - c. Teachers' uprising
 - d. Peasants' uprising
-

91. Which one of the following is a ruminant animal? (+1, -0.25)

- a. Horse
- b. Donkey

c. Hen

d. Cow

92. Identify the alloy among the following of which lead is a component. (+1, -0.25)

a. Alnico

b. Solder

c. Nickel

d. Constantan

93. Who among the following is an ace pistol shooter? (+1, -0.25)

a. Saurabh Chaudhary

b. Pankaj Advani

c. Sandeep Chaudhary

d. Amit Panghal

94. Which Indian artist has received the Jackson Pollock Fellowship, instituted (+1, -0.25)
by the Pollock Krasner Foundation, for the second time in the year 2019?

a. Pradeep Puthoor

b. Anish Kapoor

c. Neeraj Gupta

d. Rupesh Patric

95. Which Indian Prime Minister took a bus journey to Lahore to sign a peace declaration in the year 1999? **(+1, -0.25)**
- a. Atal Bihari Vajpayee
 - b. IK Gujaral
 - c. PV Narsimha Rao
 - d. HD Deve Gowda
-

96. Which country among the following is the second largest producer of agricultural products as per February 2019? **(+1, -0.25)**
- a. China
 - b. France
 - c. Russia
 - d. India
-

97. What is India's rank on the World Economic Forum's Global Competitiveness Index of 141 countries for the year 2019? **(+1, -0.25)**
- a. 68th
 - b. 50th
 - c. 60th
 - d. 58th
-

98. Which of the following is used as a preservative? (+1, -0.25)

- a. Magnesium Silicate
 - b. Sodium Palmitate
 - c. Dipropylene Glycol
 - d. Sodium Chloride
-

99. Which of the following was the founder of the Suryavamsi Gajapati dynasty that ruled parts of Orissa and Andhra Pradesh in the 15th century? (+1, -0.25)

- a. Bhanu Deva
 - b. Vasu Deva
 - c. Surendra Deva
 - d. Kapilendra Deva
-

100. Who is the author of the book 'The End of Imagination'? (+1, -0.25)

- a. Sudha Murty
- b. Arundhati Roy
- c. Kiran Desai
- d. Jhumpa Lahiri

Answers

1. Answer: b

Explanation:

The correct answer is 'bought'.

★ Key Points

- The most appropriate word for the given blank is 'bought'.
- When a specific time is given, we use **simple past tense**.
- **For Example:-**
 - I **saw** a movie last week.
 - I **lived** in Italy for five years.
- Thus, the correct answer is **Option 2**.

Correct Sentence: The pen **bought** five years ago is still writing well.

2. Answer: a

Explanation:

The correct answer is 'Intimidate'.

★ Key Points

- The most appropriate word for the given group of words is 'Intimidate'.
- It means 'to frighten or threaten somebody, often in order to make him/her do something'. [किसी को डराना या धमकाना (प्रायः कोई काम करवाने के लिए)]
 - *Example: She refused to be **intimidated** by their threats.*

Correct Answer: Intimidate.

★ Additional Information

- Let's look at the **meaning** of other words:
 - **Control** : power and ability to make somebody/something do what you want. (किसी व्यक्ति या वस्तु पर नियंत्रण, संचालन, क्राबू में रखने की क्षमता)
 - **Subjugate** : to defeat somebody/something and make them obey you; to gain control over somebody/something. (किसी व्यक्ति या वस्तु को परास्त करना; किसी व्यक्ति या वस्तु का दमन करना या उसे अपने अधीन करना)
 - **Murder** : the crime of killing a person illegally and on purpose. (गैर-क़ानूनी रूप से और जान-बूझकर किसी व्यक्ति को मार देने का अपराध, मानव हत्या का अपराध)

3. Answer: d

Explanation:

The correct answer is '**Avoid risks and take precautions**'.

★ Key Points

- The most appropriate meaning of the given idiom '**Play safe**' is '**Avoid risks and take precautions**'.
- **Play safe**: take precautions; avoid risks. (सावधानी बरतना; जोखिम से बचना।)
 - *Example: I think we'll **play it safe and** get another set of X-rays done.*

Correct Answer: *Avoid risks and take precautions.*

4. Answer: b

Explanation:

The correct answer is '**Face financial difficulties**'.

★ Key Points

- The most appropriate meaning of the given idiom '**Feel the pinch**' is '**Face financial difficulties**'.

- **Feel the pinch:** experience hardship, especially financial. (कठिनाई का अनुभव, विशेष रूप से वित्तीय)
 - *Example: Staff were beginning to **feel the pinch** as the dispute entered its third week.*

Correct Answer:Face financial difficulties.

5. Answer: d

Explanation:

The correct answer is ' Radiator '.

★ Key Points

- Among the given options the correctly spelled word is ' Radiator '.
- **Radiator** : a piece of equipment that is usually fixed to the wall and is used for heating a room. Radiators are made of metal and filled with hot water; a thing that radiates or emits light, heat, or sound. [रेडिएटर (कमरा गरम करने का धातु-निर्मित और गरम पानी से भरा यंत्र जिसे दीवार पर लगाया जाता है); वह वस्तु जो प्रकाश, ऊष्मा या ध्वनि का विकिरण या उत्सर्जन करती हो]
 - *Example: You will need to drain the central heating system before you replace the radiator .*

Correct Answer:Radiator.

6. Answer: b

Explanation:

The correct answer is 'No substitution required'.

★ Key Points

- The given sentence is grammatically correct.

- The words " **too...to**" have a **negative meaning**.
- It means 'more than is necessary or desirable (आवश्यकता से अधिक या वांछनीय)'.
 - *Example: He was **too nervous to** perform well on the stage.*
- Thus, the correct answer is **Option 2**.

7. Answer: c

Explanation:

The correct answer is '**has not yet been**'.

★ Key Points

- The given sentence is grammatically incorrect.
- Here, '**has not yet been**' should be used instead of '**had not yet been**'.
- We use "**yet**" as an adverb to refer to a time that starts in the past and continues up to the present.
- Adverbs of the present perfect tense are **yet, already, just, recently, lately, ever, and never**. They are commonly used in Present Perfect sentences to express the regularity or continuity of an action or activity.
 - *Example: They have already arrived.*
- Thus, the correct answer is **Option 3**.

Correct Sentence: *One of the rooms in the new house **has not yet been** completed.*

8. Answer: c

Explanation:

The erroneous part is '**he has tripped**'.

★ Key Points

- The given sentence is grammatically incorrect.
- Here, '**he had tripped**' should be used instead of '**he has tripped**'.

- The **past perfect tense** is not usually used alone.
- It is mainly used with the **simple past tense/past continuous** and then it refers to an action **that has already happened** by the time another action had **commenced**.
 - *Example: The patient **had died** before the doctor arrived.*
- Thus, the correct answer is **Option 3**.

Correct Sentence: *While he was running along the garden path, he had tripped over a big stone.*

9. Answer: c

Explanation:

The correct answer is ' **global** '.

★ Key Points

- The most appropriate word for the given blank is ' **global** '.
- It means '**relating to the whole world; worldwide**'. (पूरी दुनिया से संबंधित; दुनिया भर)
 - *Example: We must take a **global** view of the problem.*
- The given sentence expresses the fact that the development of solar energy is in the interest of the whole world as it is a possible substitute for oil.
- Thus, the correct answer is **Option 3**.

Correct Sentence: *The development of solar energy is of global interest, as it is a possible substitute for oil.*

★ Additional Information

- Let's look at the **meaning** of other words:
 - **Compound** : something that consists of two or more things or substances combined together. (दो या अधिक पदार्थों का सम्मिश्रण; यौगिक पदार्थ)
 - **Usual** : happening or used most often. (बहुधा होने या प्रयोग में आने वाला, हमेशा वाला)
 - **Simple** : easy to understand, do or use; not difficult or complicated. (समझने, करने या प्रयोग करने में आसान, सुबोध, सुकर; कठिन या जटिल नहीं, सरल)

10. Answer: d

Explanation:

The correct answer is ' **Deficiency** '.

★ Key Points

- The most appropriate word for the given group of words is ' **Deficiency** '.
- It means "the lack of something that is needed in order to meet a particular standard or level of quality or the thing that is lacking; a shortage of vitamins, minerals, etc. needed for good health." (किसी विशेष मानक या गुणवत्ता के स्तर या जो चीज की कमी है उसे पूरा करने के लिए आवश्यक किसी चीज की कमी; अच्छे स्वास्थ्य के लिए आवश्यक विटामिन, खनिजों आदि की कमी)
 - Example: a deficiency of *vitamin C*...

Correct Answer:Deficiency.

★ Additional Information

- Let's look at the **meaning** of other words:
 - **Nutrition** : the food that you eat and the way that it affects your health. (स्वास्थ्य को पुष्ट करने वाला भोजन, पोषाहार)
 - **Defect** : something that is wrong with or missing from somebody/something. (दोष, खराबी या त्रुटि)
 - **Disease** : an illness of the body in humans, animals, or plants. [रोग]

11. Answer: c

Explanation:

The correct answer is ' **Opening** '.

★ Key Points

- The most appropriate antonym of the given word ' **Barrier** ' is ' **Opening** '.
- **Barrier** : an object that keeps people or things separate or prevents them moving from one place to another. (लोगों या वस्तुओं के आने-जाने को रोकने या एक दूसरे से अलग करने वाली अवरोधक वस्तु; बैरियर)
 - *Example: The crowd were all kept behind **barriers**.*
- **Opening** : a space or hole that somebody/something can go through. [छेद या सुराख (जिसमें से कोई या कुछ जा सके)]
 - *Example: We were able to get through an **opening** in the hedge.*

Correct Answer: *Opening.*

★ Additional Information

- Let's look at the **meaning** of other words:
 - **Advocate** : to recommend or say that you support a particular plan or action. [(किसी योजना या कार्रवाही का) समर्थन करना; सिफ़ारिश करना]
 - **Obstacle** : something that makes it difficult for you to do something or go somewhere. (बाधा, अड़चन, अवरोध)
 - **Hindrance** : a person or thing that makes it difficult for you to do something, an obstacle or obstruction. (किसी काम में कठिनाई पैदा करने वाला व्यक्ति या वस्तु, बाधक तत्व; रुकावट, बाधा, विघ्न)

12. Answer: b

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Explanation:

The correct answer is '**to exercise with**'.

★ Key Points

- The given sentence is grammatically incorrect.
- Here, '**to exercise with**' should be used instead of '**to exercise at**'.
- The preposition '**with**' in the given context means '**in the company of somebody/something; in or to the same place as somebody/something**' [(व्यक्ति या वस्तु) के पास; (व्यक्ति या वस्तु) के साथ]
 - *Example: I live **with** my parents.*

- Thus, the correct answer is **Option 2**.

Correct Sentence: Anant went to the park every evening to exercise with his friends.

13. Answer: c

Explanation:

The correct answer is ' **Dim** '.

★ Key Points

- The most appropriate antonym of the given word ' **Clear** ' is ' **Dim** '.
- **Clear** : easy to see, hear or understand. (देखने, सुनने या समझने में स्पष्ट, साफ़)
 - *Example: His voice wasn't very **clear** on the telephone.*
- **Dim** : not bright or easy to see; not clear. (मंद, धुँधला, अस्पष्ट)
 - *Example: The light was too **dim** to read by.*

Correct Answer: Dim.

★ Additional Information

- Let's look at the **meaning** of other words:
 - **Doubt** : (a feeling of) uncertainty. [संदेह का भाव, अनिश्चय]
 - **Open** : not closed or covered. (खुला, अनढका या अनावृत)
 - **Known** : to have knowledge or information in your mind. (किसी बात या व्यक्ति की जानकारी होना)
-

14. Answer: b

Explanation:

The correct answer is ' **Surround** '.

★ Key Points

- Among the given options, the correctly spelt word is ' **Surround** '.
- It means 'to be or go all around somebody/something'. (किसी के चारों ओर होना या किसी को चारों ओर से घेरना)
 - *Example: The garden is **surrounded** by a high wall.*

Correct Answer:Surround.

15. Answer: a

Explanation:

The erroneous part is '**tea than coffee**'.

★ Key Points

- The given sentence is grammatically incorrect.
- Here, '**tea to coffee**' should be used instead of '**tea than coffee**'.
- The adjectives inferior, superior, senior, junior, prefer, prior, etc. take the preposition 'to, not than'.
 - *Example: She always felt inferior to her younger sister.*
- Thus, the correct answer is **Option 1**.

Correct Sentence:My sister prefer**tea to coffee**in the afternoon after lunch.

16. Answer: b

Explanation:

The erroneous part is '**If I am you**'.

★ Key Points

- The given sentence is **grammatically incorrect**.
- Here, '**If I were you**' should be used instead of '**If I am you**'.

- "If I were you" is used when we give advice by imagining ourselves in the position of the other person.
- The structure of such sentences is as follows:-
 - If I were you + I would/wouldn't + VI + Object.
- If I were you ... is used when giving advice about what you would do in the same situation as the other person.
- You imagine yourself in their position or situation and what you would do or how you would react.
- For Examples:-
 - If I were you, I would study more.
 - If I were you, I would stop doing that.
 - If I were you, I would go to the doctor.
 - If I were you, I wouldn't play with those wires.
- We can also change the order of the sentence.
- For Examples:-
 - I would study more if I were you.
 - I would be more careful if I were you.
 - I wouldn't do that if I were you.
- Thus, the correct answer is Option 2.

Correct Sentence: *If I were you, I wouldn't take the risk of going to the market.*

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17. Answer: c

Explanation:

The correct answer is ' **structure** '.

★ Key Points

- The most appropriate word for the given blank is ' **structure** '.
- It means 'the way that the parts of something are put together or organized'.
(बनावट, रचना)
 - Example: the political and social **structure** of a country...
- Thus, the correct answer is **Option 3**.

Correct Sentence: *The **structure** of an atom of oxygen is different from that of an atom of hydrogen.*

★ Additional Information

- Let's look at the **meaning** of other words:
 - **Value** : the amount of money that something is worth. [(किसी वस्तु का) मूल्य, कीमत]
 - **Procedure** : the usual or correct way of doing something. (कुछ करने का सामान्य या सही ढंग; प्रक्रिया)
 - **Position** : the place where somebody/something is or should be. [किसी का स्थान (वर्तमान या उपयुक्त)]

18. Answer: a

Explanation:

The correct answer is ' **Exile** '.

★ Key Points

- The most appropriate **synonym** of the given word ' **Banish** ' is ' **Exile** '.
- **Banish** : to send somebody away (especially out of the country), usually as a punishment. (दंडस्वरूप देश-निकाला देना, निर्वासित करना)
 - *Example: She **banished** all hope of winning from her mind.*
- **Exile** : the state of being forced to live outside your own country (especially for political reasons). [देशनिकाला, निर्वासन (विशेषतः राजनीतिक आधार पर); स्वदेश छोड़कर अन्यत्र रहने की बाध्यता]
 - *Example: They lived in **exile** in London for many years.*

Correct Answer: *Exile.*

★ Additional Information

- Let's look at the **meaning** of other words:
 - **Paint** : coloured liquid that you put onto a surface to decorate or protect it. (रंगीन द्रव जो किसी सतह पर साज-सज्जा या सुरक्षा हेतु लगाया जाता है)

- **Scrape** : to remove something from a surface by moving a sharp edge across it firmly. (चाकू आदि से किसी सतह पर लगी चीज़ हटाना; खुरचना)
- **Invent** : to think of or make something for the first time. (कोई बात प्रथम बार सोचना या वस्तु प्रथम बार बनाना, किसी बात या वस्तु का आविष्कार करना)

19. Answer: b

Explanation:

The correct answer is '**are being felt**'.

★ Key Points

- The most appropriate option for the given blank is '**are being felt**'.
- The given sentence is in the **passive voice**.
- The following time expressions are commonly used with the **present continuous** tense: **today, at present, at the moment, still, now, etc.**
 - Example: *I **am working** on a new project now.*
- In the given sentence '**the effects**' is a **plural subject**. Thus, a **plural helping verb** should be used.
- As the given sentence is in the **passive voice**. Hence, a **passive structure** should be followed.
- Thus, the correct answer is **Option 2**.

Correct Sentence: *The effects of the fuel price hike **are being felt** severely even now.*

20. Answer: c

Explanation:

The correct answer is '**Find**'.

★ Key Points

- The most appropriate synonym of the given word '**Discover**' is '**Find**'.

- **Discover** : to find or learn something that nobody had found or knew before. (किसी नई बात का पता लगाना या उसे जानना)
 - *Example: Scientists are hoping to **discover** the cause of the epidemic.*
- **Find** : to discover something that you want or that you have lost after searching for it. (खोज या ढूँढ़ निकालना; का पता लगाना; पा लेना)
 - *Example: Did you **find** the pen you lost?*

Correct Answer: Find.

★ Additional Information

- Let's look at the **meaning** of other words:
 - **Shut** : to make something close; to become closed. [(किसी को) बंद करना; (किसी का) बंद होना]
 - **Close** : to shut. (बंद करना या होना)
 - **Search** : to examine somebody/something carefully because you are looking for something; to look for something that is missing. (अभीष्ट वस्तु की खोज में किसी की बारीकी से जाँच करना; खोई हुई वस्तु को तलाशना)

21. **Answer: b**

Explanation:

The correct answer is '**than**'.

★ Key Points

- The most appropriate option for the given blank is '**than**'.
- It means '**used when you are comparing two things**'. (दो वस्तुओं की तुलना के लिए प्रयुक्त)
 - *Example: He's taller **than** me.*
- In the given sentence '**mobile phones**' are being compared with '**the computers that NASA used for moon missions in the 1960s**'.
- Thus, the correct answer is **Option 2**.

Correct Passage: *The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more*

powerful than(1) the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much (2) _____ but more powerful than the computers of about sixty years ago. Now a standard smart phone has (3) _____ replaced computers for many households because many internet services are now (4) _____ on the smart phone. In its early years, mobile internet was (5) _____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.

22. Answer: c

Explanation:

The correct answer is 'smaller'.

★ Key Points

- The most appropriate option for the given blank is 'smaller'.
- It means 'not large in size, number, amount, etc.' [छोटा (आकार, संख्या, मात्रा आदि की दृष्टि से)]
 - Example: a small car/flat/town...
- Here, the comparison of **smartphones** is being made with **the computers** that were used sixty years ago in terms of their size.
- Thus, the correct answer is **Option 3**.

Correct Passage: The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more powerful than(1) the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much smaller(2) but more powerful than the computers of about sixty years ago. Now a standard smart phone has (3) _____ replaced computers for many households because many internet services are now (4) _____ on the smart phone. In its early years, mobile internet was (5) _____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.

23. Answer: a

Explanation:

The correct answer is ' **effectively** '.

★ Key Points

- The most appropriate word for the given blank is ' **effectively** '.
- It means 'in a way that successfully produces the result you wanted'. (प्रभावोत्पादक रीति से)
 - *Example: She dealt with the situation **effectively** .*
- The given sentence expresses the fact that the modern-day smartphone has successfully taken over from computers in many households.
- Thus, the correct answer is **Option 1**.

Correct Passage: *The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more powerful than(1) the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much smaller (2) but more powerful than the computers of about sixty years ago. Now a standard smart phone has effectively(3) replaced computers for many households because many internet services are now (4) _____ on the smart phone. In its early years, mobile internet was (5) _____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.*

★ Additional Information

- Let's look at the **meaning** of other words:
 - **faithfully** : in a loyal manner. (निष्ठापूर्वक, वफ़ादारी से)
 - **productively** : in a way that produces or increases something, especially wealth or resources; profitably. (एक तरह से जो कुछ पैदा करता है या बढ़ाता है, विशेष रूप से धन या संसाधन; सफलता से)
 - **predictably** : in a way that can be predicted; as expected. (एक तरह से जिसकी भविष्यवाणी की जा सकती है; जैसा सोचा था)

24. Answer: b

Explanation:

The correct answer is ' **accessible** '.

★ Key Points

- The most appropriate word for the given blank is ' **accessible** '.
- It means 'possible to be reached or entered'. (जहाँ पहुँचना या प्रवेश करना संभव हो; सुगम)
 - *Example: The island is only **accessible** by boat.*
- The given sentence expresses the fact that the modern-day smartphone has successfully taken over from computers in many households **because many internet services are available on smartphones**.
- Thus, the correct answer is **Option 2**.

Correct Passage: *The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more powerful than(1) the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much smaller (2) but more powerful than the computers of about sixty years ago. Now a standard smart phone has effectively(3) replaced computers for many households because many internet services are now accessible(4) on the smart phone. In its early years, mobile internet was (5) _____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.*

★ Additional Information

- Let's look at the **meaning** of other words:
 - **Unavailable** : that cannot be obtained. (जो मिल नहीं सकता; अलभ्य)
 - **Inaccessible** : very difficult or impossible to reach or contact. (जहाँ पहुँचना या जिससे संपर्क करना बहुत कठिन या असंभव हो, पहुँच से परे; अगम्य, अनभिगम्य)
 - **Expensive** : costing a lot of money. (खर्चीला, बहुत महँगा, क़ीमती)

25. Answer: b

Explanation:

The correct answer is ' **primarily** '.

★ Key Points

- The most appropriate word for the given blank is ' **primarily** '.
- It means ' **more than anything else; mainly** ' . (मुख्य रूप से)
 - *Example: The course is aimed **primarily** at beginners.*
- The given sentence expresses the fact that in the early years, mobile internet was mainly used for email.
- Thus, the correct answer is **Option 2**.

Correct Passage: *The mobile phone that you have may be called "the little computer". Do you know why? It has been claimed that it is thousands of times more powerful than(1) the computers that powered NASA's moon missions in the 1960s. Thus, the present-day smart phones are much smaller (2) but more powerful than the computers of about sixty years ago. Now a standard smart phone has effectively(3) replaced computers for many households because many internet services are now accessible(4) on the smart phone. In its early years, mobile internet was primarily(5) used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from 152 per GB to a mere ten rupees during the same period.*

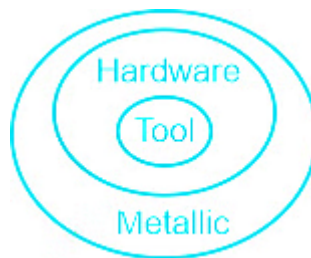
★ Additional Information

- Let's look at the **meaning** of other words:
 - **efficiently** : in a way that achieves maximum productivity with minimum wasted effort or expense. (कुशलता पूर्वक)
 - **importantly** : used to emphasize a significant point. (एक महत्वपूर्ण बिंदु पर जोर देने के लिए प्रयोग किया जाता है)
 - **secondarily** : as a secondary or less important factor. (एक माध्यमिक या कम महत्वपूर्ण कारक के रूप में)

26. Answer: c

Explanation:

The least possible Venn diagram for the statements is as below,



conclusions:

I. All Metallic are Tools. → **does not follow** (As all Tools are Hardware and all Hardware is Metallic. So, some Metallic are Tools. Therefore, All Metallic are Tools is a possibility not definite true.)

II. All Tools are Metallic. → **follows** (As a II Tools are Hardware and a II Hardware is Metallic. So, All Tools are Metallic. Clearly it is definite true.)

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

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27. Answer: c

Explanation:

The logic followed here is:

Logic: First Number \div 1000 = Second number

$$\Rightarrow 10.3 : 0.0103$$

$$\Rightarrow 10.3 \div 1000 = 0.0103$$

$$\Rightarrow 0.0103 = 0.0103$$

Similarly,

1) $2.80 : 0.0280 \rightarrow$

$\Rightarrow 2.80 \div 1000 = 0.0028$

$\Rightarrow 0.0028 \neq 0.0280$

2) $020 : 0.002 \rightarrow$

$\Rightarrow 020 \div 1000 = 0.02$

$\Rightarrow 0.02 \neq 0.002$

3) $2.80 : 0.00280 \rightarrow$

$\Rightarrow 2.80 \div 1000 = 0.0028$

$\Rightarrow 0.0028 = 0.00280$

4) $020 : 0.20 \rightarrow$

$\Rightarrow 020 \div 1000 = 0.02$

$\Rightarrow 0.02 \neq 0.20$

Hence, the correct answer is "Option (3)".

28. Answer: a

Explanation:

Question figure is embedded in the "option 1" as follows:



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

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

29. Answer: b

Explanation:

The image obtained when the paper is unfolded is as shown below :



Hence, the correct answer is "Option (2)".

30. Answer: c

Explanation:

The logic followed here is:

Logic:

$$2^{\text{nd}} \text{ number} + (\text{sum of all the numbers of } 1^{\text{st}} \text{ number}) = 1^{\text{st}} \text{ number}$$

$$2^{\text{nd}} \text{ number} - (\text{sum of the numbers of } 3^{\text{rd}} \text{ number}) = 3^{\text{rd}} \text{ number}$$

132,126,117

$$\Rightarrow 126 + (1 + 3 + 2) = 132$$

$$\Rightarrow 126 - (1 + 1 + 7) = 117$$

1) 122, 117, 19

$$\Rightarrow 117 + (1 + 2 + 2) = 122$$

$$\Rightarrow 117 - (1 + 9) = 107$$

2) 118, 111, 102

$$\Rightarrow 111 + (1 + 1 + 8) = 121$$

$$\Rightarrow 111 - (1 + 0 + 2) = 108$$

3) 124, 117, 108

$$\Rightarrow 117 + (1 + 2 + 4) = 124$$

$$\Rightarrow 117 - (1 + 0 + 8) = 108$$

4) 138, 132, 125

$$\Rightarrow 132 + (1 + 3 + 8) = 144$$

$\Rightarrow 132 - (1 + 2 + 5) = 124$

Hence, the correct answer is "option(3)".

31. 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:



Hence, the correct answer is "ZXV".

32. Answer: d

Explanation:

The logic followed here is:-



Hence, the correct answer is "179".

33. Answer: d

Explanation:

- 'Right' is the synonyms of 'Correct'.

Similarly,

- 'Peak' is the synonyms of 'Top'.

Hence, the correct answer is "Top".

34. Answer: d

Explanation:

BODMAS RULE:

Option (1): -, ×, +, ÷, +

After put sign in given equation: $46 - 12 \times 32 + 8 \div (96 \div 23) = 437$

$$\rightarrow 46 - 12 \times 32 + 8 \div 4.173 = 437$$

$$\rightarrow 46 - 12 \times 32 + 1.917 = 437$$

$$\rightarrow 46 - 384 + 1.917 = 437$$

$$\rightarrow 47.917 - 384$$

→ $- 336.83 \neq 437$

→ LHS \neq RHS

Option (2): $\div, -, \times, +, -$

After put sign in given equation: $46 \div 12 - 32 \times 8 + (96 - 23) = 437$

→ $46 \div 12 - 32 \times 8 + 73 = 437$

→ $3.833 - 32 \times 8 + 73 = 437$

→ $3.833 - 256 + 73 = 437$

→ $76.833 - 256$

→ $- 179.167 \neq 437$

→ LHS \neq RHS

Option (3): $+, \times, -, \div, -$

After put sign in given equation: $46 + 12 \times 32 - 8 \div (96 - 23) = 437$

→ $46 + 12 \times 32 - 8 \div 73 = 437$

→ $46 + 12 \times 32 - 0.1095 = 437$

→ $46 + 384 - 0.1095 = 437$

→ $430 - 0.1095 = 437$

→ $429.8905 \neq 437$

→ LHS \neq RHS

Option (4): $\times, +, \div, -, +$

After put sign in given equation: $46 \times 12 + 32 \div 8 - (96 + 23) = 437$

→ $46 \times 12 + 32 \div 8 - 119 = 437$

→ $46 \times 12 + 4 - 119 = 437$

→ $552 + 4 - 119 = 437$

→ $556 - 119 = 437$

→ $437 = 437$

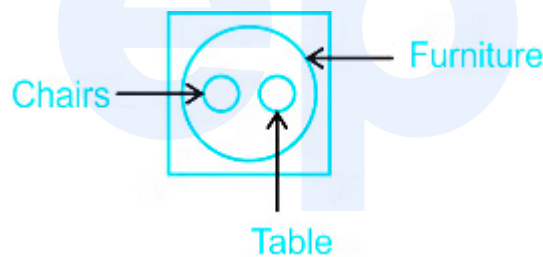
→ $LHS = RHS$

Hence, the correct answer is "Option 4".

35. Answer: c

Explanation:

Here, Furniture, Chairs and Tables are best representation for question Venn diagram.



The table is a piece of furniture used to keep things and the chair is piece of furniture used for sitting.

Both of them are made of furniture but their use is different, so they are shown separately in the Venn diagram.

Hence, the correct answer is "Option 3".

36. Answer: b

Explanation:

The pattern for the code is as follows:-

D	O	U	B	L	E
↓	+2	↓	+3	↓	+4
↓		↓	+5	↓	+6
↓		↓	+7	↓	
F	R	Y	G	R	L

Similarly,

M	E	T	H	Y	L
↓	+2	↓	+3	↓	+4
↓		↓	+5	↓	+6
↓		↓	+7	↓	
O	H	X	M	E	S

Hence, the correct answer is "OHXMES".

37. Answer: b

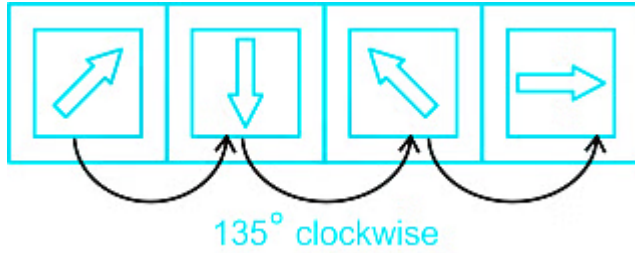
Explanation:

The logic followed here is :

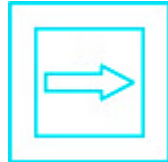
- The sign



is rotating 135° clockwise in each step.



Thus, the next figure in the given series is:



Hence, the correct answer is "Option (2)".

38. Answer: b

Explanation:

The logic followed here is:

The order of the given names according to their geographical location on India's map from Bottom to Top is:

Kerala → Karnataka → Maharashtra → Gujrat → Rajasthan

The sequential order of the given names is as follows:

5 - 3 - 1 - 4 - 1

Hence, the correct answer is "Option (2)".

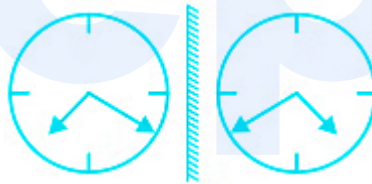
★ Additional Information

State	Latitude	Longitude
Kerala	10 ° 00' N	76° 25' E
Karnataka	11° to 18° N	74° to 78° E
Maharashtra	20" 00' N	76" 00' E
Gujrat	20°01' to 24°07' N	68°04' to 74°04' E
Rajasthan	23°30' to 30° 11' N	69° 29' to 78° 17' E

39. Answer: b

Explanation:

The mirror image of the question figure is as follows:



Hence, the correct answer is "Option (2)".

★ Additional Information

1. In a mirror image **Left changes to the right and the right changes to the left** .
2. When the placement of the **mirror** is not given, by **default** we will assume it is placed at the right of the figure.

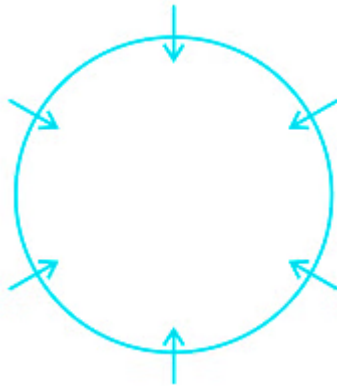
40. Answer: a

Explanation:

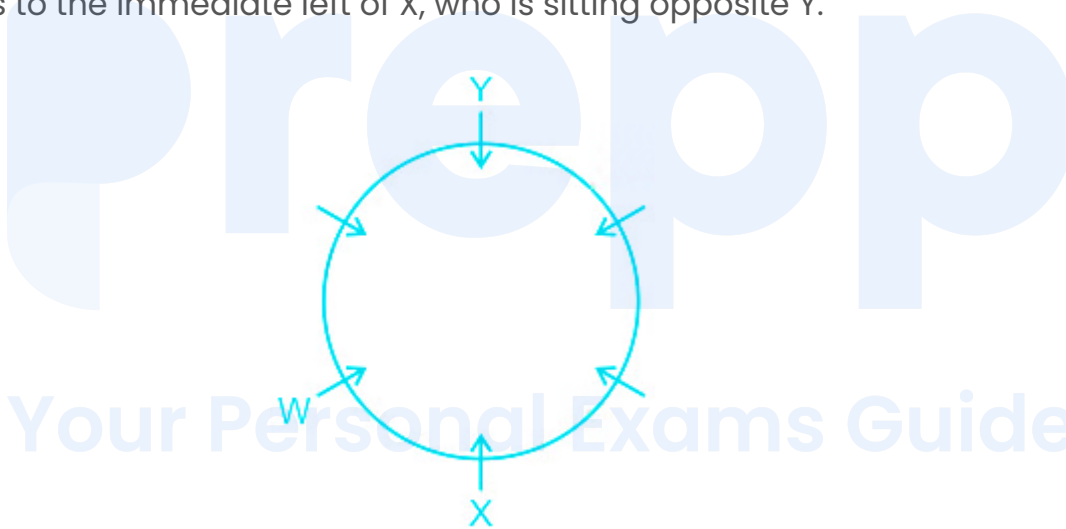
Six persons: U, V, W, X, Y, and Z

The logic followed here is:

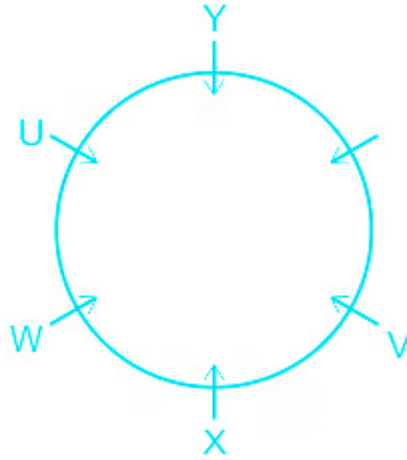
1. Six persons are sitting around a circular table facing the center.



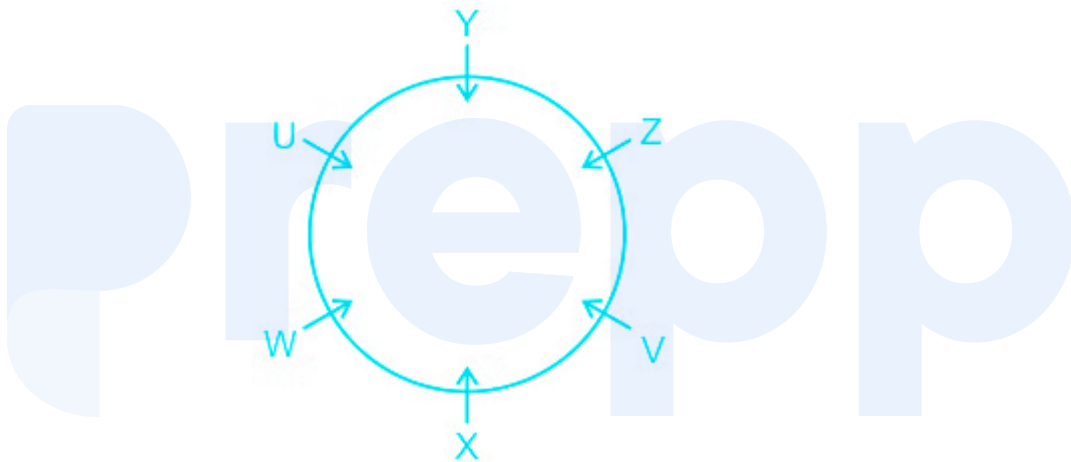
2. W is to the immediate left of X, who is sitting opposite Y.



3. If V is second to the left of Y and exactly opposite U.



Now, Z sits in the remaining place. so the final sitting arrangement is:

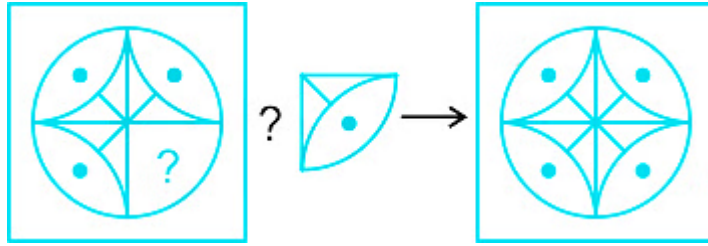


From the above arrangement we can see that "Z sits Right to V",
Hence, the correct answer is "Option 1".

41. Answer: c

Explanation:

Among the given options only option 3 complete the question figure:

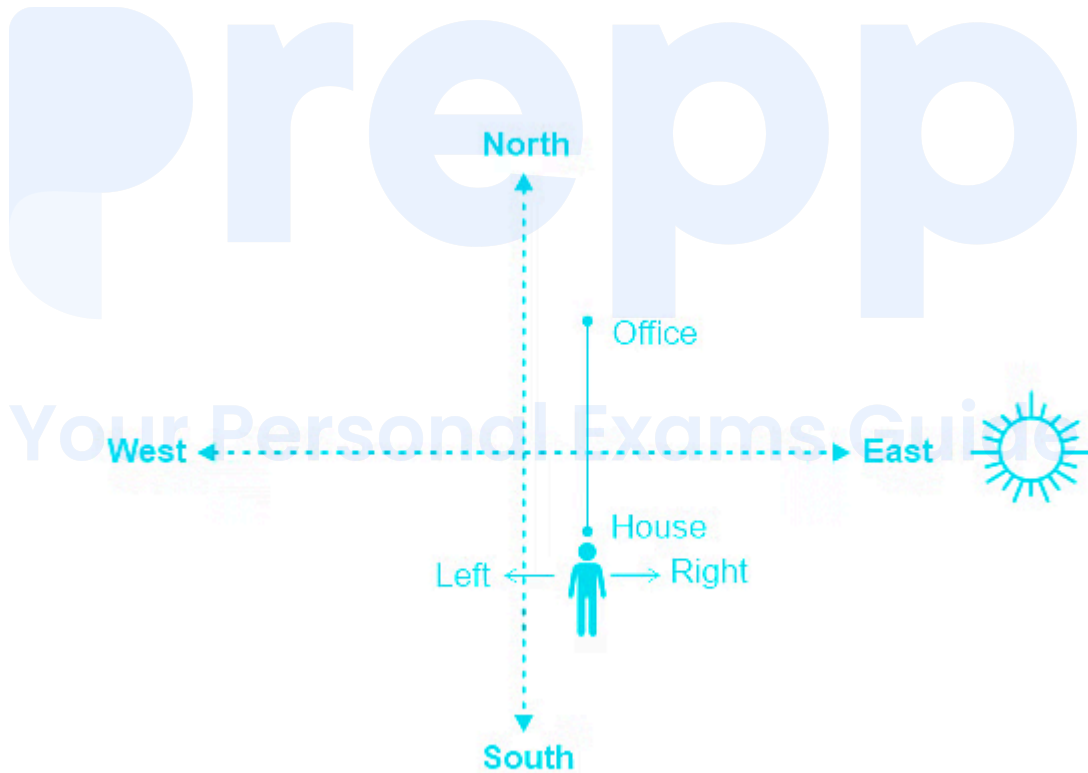


Hence, the correct answer is "Option (3)".

42. Answer: d

Explanation:

According to the question,



In the morning, I am going to office from my house.

My house is in "South" direction from my office.

Hence, the correct answer is "South".

Note : In morning, Sun will be in the East that's why, shadow falls on the left side and I am facing North direction.

43. Answer: a

Explanation:

Table shows the positional value of alphabets.

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

Logic:

First two are decreased by 4 and next two letters are increased by 4 and so on.



Similarly,



Hence, the correct answer is "YKQQANGMWH".

44. Answer: a

Explanation:

The logic followed here is:

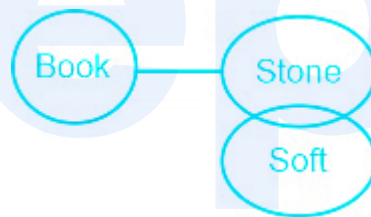


Hence, the correct answer is "11".

45. Answer: c

Explanation:

Least Possible Venn Diagram:



Conclusions:

I. No Book is Soft → **Doesn't Follows** (It can be possible but not definite because there is no direct relation between book and soft)

II. Some Books are Soft → **Doesn't Follows** (It can be possible but not definite because there is no direct relation between book and soft)

Hence, **neither (I) nor (II)** follows.

★ **Important Points**

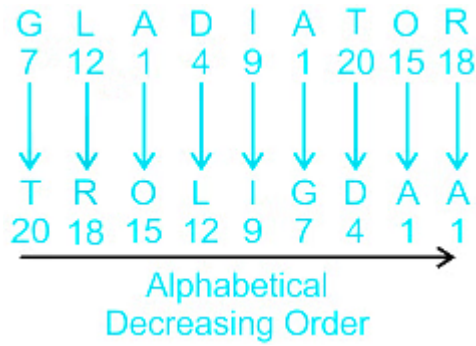
Complementary Pair:

- 1) When subject and predicate are same in the conclusion.
- 2) Both the conclusion should be false possibly (but not definite).

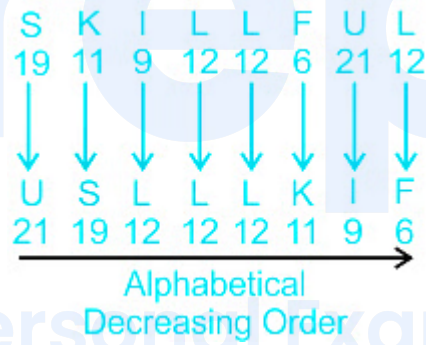
46. Answer: b

Explanation:

Logic: Arranged in decreasing order (according to their positional values)



Similarly,



Hence, the correct answer is "USLLLKIF".

47. Answer: c

Explanation:

The logic followed here is:

- Hectare is a unit of Area.

Similarly,

- Pascal is a unit of Pressure.

Hence, the correct answer is 'Pressure'.

★ Additional Information

Quantity	Unit
Capacity	Liter
Temperature	Fahrenheit
Energy	Joule

48. Answer: b

Explanation:

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

The logic followed here is:

Sum of the position value of the reverse letter of the given letter + 1

In TICKBOX →

Sum of position value of **GRXPYLC**

$$= 7 + 18 + 24 + 16 + 25 + 12 + 3$$

= 105

So, code of TICKBOX is $105 + 1 = 106$

Similarly,

In RELEASE →

Sum of position value of IVOVZHV

= $9 + 22 + 15 + 22 + 26 + 8 + 22$

= 124

So, code of RELEASE is $124 + 1 = 125$

Therefore,

In PACKAGE→

= Sum of position value of KZXPZTV

= $11 + 26 + 24 + 16 + 26 + 20 + 22$

= 145

So, code of PACKAGE = $145 + 1 = 146$.

Hence, the correct answer is 146.

49. Answer: d

Explanation:

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

The logic followed here is:

Code of letter = sum of the digit of the placed value of that letter.

Letter	Position value	Sum of digits of position value
N	14	5
O	15	6
T	20	2
E	5	5
C	3	3
A	1	1
R	18	9
D	4	4

Similarly,

Letter	Position value	Sum of digits of position value
O	15	6
P	16	7
E	5	5
N	14	5
M	13	4
I	9	9
N	14	5
D	4	4

Therefore,

Letter	Position value	Sum of digits of position value
H	8	8
A	1	1
R	18	9
D	4	4
C	3	3
O	15	6
R	18	9
E	5	5

Hence, the correct answer is "81943695".

50. Answer: c

Explanation:

BODMAS RULE:

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

Option (1): × and ÷

Given equation: $72 \div 36 + 12 \times 13 - 48 = 63$

Interchanged equation is : $72 \times 36 + \underline{12 \div 13} - 48 = 63$

$$\Rightarrow \underline{72 \times 36} + 0.92 - 48 = 63$$

$$\Rightarrow \underline{2592 + 0.92} - 48 = 63$$

$$\Rightarrow \underline{2592.92} - 48 = 63$$

$$\Rightarrow 2544.92 \neq 63$$

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

Option (2): + and -

Given equation: $72 \div 36 + 12 \times 13 - 48 = 63$

Interchanged equation is: $\underline{72 \div 36} - 12 \times 13 + 48 = 63$

$$\Rightarrow 2 - \underline{12 \times 13} + 48 = 63$$

$$\Rightarrow 2 - 156 + 48 = 63$$

$$\Rightarrow \underline{2 + 48} - 156 = 63$$

$$\Rightarrow 50 - 156 = 63$$

$$\Rightarrow -106 \neq 63$$

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

Option (3): + and \div

Given equation: $72 \div 36 + 12 \times 13 - 48 = 63$

Interchanged equation is: $72 + \underline{36 \div 12} \times 13 - 48 = 63$

$$\Rightarrow 72 + \underline{3 \times 13} - 48 = 63$$

$$\Rightarrow \underline{72 + 39} - 48 = 63$$

$$\Rightarrow \underline{111 - 48} = 63$$

$$\Rightarrow 63 = 63$$

⇒ LHS = RHS

Option (4): × and -

Given equation: $72 \div 36 + 12 \times 13 - 48 = 63$

Interchanged equation is: $72 \div 36$ + 12 -13 × 48 = 63

⇒ $2 + 12 - 13 \times 48 = 63$

⇒ $2 + 12$ - 624 = 63

⇒ $14 - 624 = 63$

⇒ $- 610 \neq 63$

⇒ LHS ≠ RHS

Hence, the correct answer is "+ and ÷".

51. Answer: b

Explanation:

Given: **Your Personal Exams Guide**

The time = 15 years

Formula used:

The compounded amount = $P \times (1 + \frac{R}{100})^T$ Where, P = Principle, R = Rate, and T = Time

Calculation:

Let the principle of be P and time at which sum became four times be T

According to the question

$$\Rightarrow 2P = P \times (1 + \frac{R}{100})^{15}$$

$$\Rightarrow 2 = \left(1 + \frac{R}{100}\right)^{15} \text{ -----(1)}$$

$$\Rightarrow 4P = P \times \left(1 + \frac{R}{100}\right)^T$$

$$\Rightarrow 2^2 = \left(1 + \frac{R}{100}\right)^T \text{ -----(2)}$$

By equations (1) and (2)

$$\Rightarrow \left(\left(1 + \frac{R}{100}\right)^{15}\right)^2 = \left(1 + \frac{R}{100}\right)^T$$

$$\Rightarrow \left(1 + \frac{R}{100}\right)^{30} = \left(1 + \frac{R}{100}\right)^{15}$$

By comparing the equations

$$\Rightarrow T = 30 \text{ years}$$

∴ The required result will be 30 years.

52. Answer: a

Explanation:

Given:

The length of the rectangle increased by 80%

Formula used:

Area of the rectangle = $l \times b$ Where, l = Length, and b = Breadth

Calculation:

Let the length and breadth of the rectangle be l and b respectively and X percentage decrease in the width of the rectangle

The area of the rectangle = $l \times b$

The new length of the rectangle = $\frac{180l}{100} = \frac{9l}{5}$

The new width of the rectangle = $\frac{100-X}{100} \times b$

$$\text{New area} = \frac{9l}{5} \times \left(\frac{100-X}{100}\right) \times b$$

According to the question both area should be equal

$$\Rightarrow \frac{9l}{5} \times \left(\frac{100-X}{100}\right) \times b = l \times b$$

$$\Rightarrow 9 \times (100 - X) = 500$$

$$\Rightarrow 900 - 9X = 500$$

$$\Rightarrow 9X = 400$$

$$\Rightarrow X = \frac{400}{9} = 44.4\%$$

\therefore The required result will be 44.4%.

53. Answer: b

Explanation:

Given:

The ratio of the share of P, Q, R, and S respectively = 3 : 4 : 5 : 6

Calculation:

Let the share of P, Q, R, S, and T be $3x$, $4x$, $5x$, and $6x$ respectively

According to the question

$$\Rightarrow 5x - 4x = 500$$

$$\Rightarrow x = 500$$

The sum of all share = $3x + 4x + 5x + 6x = 18x = 18 \times 500 = 9000$

\therefore The required result will be 9000.

54. Answer: b

Explanation:

Given:

The boys appeared in 2012, and 2013 = 250 and 300 respectively

The girls appeared in 2012 and 2015 = 325 and 325 respectively

Calculation:

The total number of boys = $250 + 300 = 550$

The total number of girls = $325 + 325 = 650$

The ratio = $550 : 650 = 11 : 13$

∴ The required result will be 11 : 13.

55. Answer: b

Explanation:

Given:

The speed of the car = $5\frac{5}{9}$ m/sec

Formula used:

$S = \frac{D}{T}$ Where, S = Speed, D = Distance, and T = Time

Calculation:

According to the question

Speed of the car = $\frac{50}{9} \text{ m/s} = \frac{50}{9} \times \frac{18}{5} = 20 \text{ kmph}$

The speed of the car at return journey = $5 \text{ m/s} = 5 \times \frac{18}{5} = 18 \text{ kmph}$

Total time = $\frac{38}{5} \text{ hours}$

Now, A/Q

$$\Rightarrow \frac{x}{20} + \frac{x}{18} = \frac{38}{5}$$

$$\Rightarrow (18x + 20x) \times 5 = (20 \times 18) \times 38$$

$$\Rightarrow 38x \times 5 = 360 \times 38$$

$$\Rightarrow x = 72 \text{ km}$$

∴ The required result will be 72 km.

56. Answer: b

Explanation:

Formula used:

Average = Sum of all the terms/Total number of terms

Calculation:

Let the numbers be a, b, and c

According to the question

$$\Rightarrow \frac{a+b}{2} + c = 154$$

$$\Rightarrow a + b + 2c = 308$$

$$\Rightarrow 2c = 308 - a - b \quad \text{----(1)}$$

$$\Rightarrow \frac{b+c}{2} + a = 148$$

$$\Rightarrow b + c + 2a = 296$$

$$2a = 296 - b - c \quad \text{-----(2)}$$

$$\Rightarrow \frac{c+a}{2} + b = 132$$

$$\Rightarrow c + a + 2b = 264$$

$$\Rightarrow 2b = 264 - a - c \quad \text{-----(3)}$$

By adding all equation

$$\Rightarrow 2a + 2b + 2c = 308 - a - b + 296 - b - c + 264 - a - c$$

$$\Rightarrow 2a + 2b + 2c = 868 - 2a - 2b - 2c$$

$$\Rightarrow a + b + c = \frac{868}{4}$$

$$\Rightarrow a + b + c = 217 \quad \text{-----(4)}$$

By solving equation (4) and (1)

$$\Rightarrow 217 - c + 2c = 308$$

$$\Rightarrow c = 308 - 217$$

$$\Rightarrow c = 91$$

By equation (2) and (4)

$$\Rightarrow 217 - a + 2a = 296$$

$$\Rightarrow a = 296 - 217$$

$$\Rightarrow a = 79$$

By equation (3) and (4)

$$\Rightarrow 217 - b + 2b = 264$$

$$\Rightarrow b = 264 - 217 = 47$$

$$\text{The average of all three numbers} = \frac{91 + 79 + 47}{3} = \frac{217}{3} = 72\frac{1}{3}$$

\therefore The required result will be $72\frac{1}{3}$.

57. Answer: a

Explanation:

Given:

The number of boys in 2011 = 225

The number of boys in 2013 = 300

The number of boys in 2015 = 375

The number of girls in 2012 = 325

Formula used:

$GM\% = \frac{GM}{TM} \times 100$ Where, GM = Gain marks, and TM = Total marks

Calculation:

According to the question

The average number of boys = $\frac{225+300+375}{3} = 300$

The boys less than girls = $325 - 300 = 25$

The required percentage = $\frac{25}{325} \times 100 = 7.69 \approx 7.7\%$

\therefore The required result will be 7.7%.

58. Answer: b

Explanation:

Given:

A can complete the work = 15 days

B can complete the work = 20 days

Formula used:

$W = E \times T$ Where, W = Work, E = Efficiency, and T = Time

Calculation:

Let both of them can complete the work in X days

One day work of A = $\frac{1}{15}$

One day work of B = $\frac{1}{20}$

According to the question

$$\Rightarrow \frac{X}{15} + \frac{X}{20} = \frac{35}{100}$$

By solving the equation

The required number of days = X = 3 days

\therefore The required result will be 3 days.

59. Answer: b

Explanation:

Given:

The variance = 0.81

Formula used:

S.D. = \sqrt{V} Where, S.D. = Standard deviation and V = Variance

Calculation:

Let the standard deviation be X

According to the question

$$\Rightarrow X = \sqrt{0.81} = 0.9$$

\therefore The required result will be 0.9.

60. Answer: b

Explanation:

Given:

The ratio of speeds of the train = 5 : 8

Formula used:

$$S = \frac{D}{T} \quad \text{Where, } S = \text{Speed, } D = \text{Distance, and } T = \text{Time}$$

Calculation:

Let the speed of the train be 'u' and 'v' respectively.

According to the question

$$u/v = 5/8 \quad \text{-----(1)}$$

Speed of the second train

$$v = \frac{400}{4} = 100 \text{ kmph}$$

The speed of the first train

$$u = \frac{100}{8} \times 5 = 62.5 \text{ kmph}$$

\therefore The required result will be 62.5 kmph.

61. Answer: a

Explanation:

Given:

The marked price of the article = ₹ 4450

Formula used:

$P = SP - CP$ Where, P = Profit, SP = Selling price, and CP = Cost price

Calculation:

Let the cost price of the article be CP

$$\Rightarrow 4450 \times \left(\frac{100-15}{100}\right) = CP \times \frac{115}{100}$$

$$\Rightarrow 44.5 \times 85 = 1.15 \times CP$$

$$\Rightarrow CP = \frac{44.5 \times 85}{1.15} = \frac{3782.5}{1.15} = 3289.13043 \approx 3289$$

\therefore The required result will be 3289.

62. Answer: d

Explanation:

Given:

$$\left[\left\{ \left(3 - \frac{2}{1 + \frac{1}{4 + \frac{2}{3}}} \right) \text{ of } 1\frac{13}{21} \div 3\frac{2}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

Calculation:

$$\Rightarrow \left[\left\{ \left(3 - \frac{2}{1 + \frac{1}{4 + \frac{2}{3}}} \right) \text{ of } 1\frac{13}{21} \div 3\frac{2}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$\Rightarrow \left[\left\{ \left(3 - \frac{2}{1 + \frac{3}{14}} \right) \text{ of } 1\frac{13}{21} \div 3\frac{2}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$\Rightarrow \left[\left\{ \left(3 - \frac{28}{17} \right) \text{ of } 1\frac{13}{21} \div 3\frac{2}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$\Rightarrow \left[\left\{ \left(\frac{23}{17} \right) \times \frac{34}{21} \div 3\frac{2}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$\Rightarrow \left[\left\{ \left(\frac{46}{21} \right) \right\} \times \frac{7}{23} \right] - \frac{1}{3} \times \frac{9}{10}$$

$$\Rightarrow \left[\frac{2}{3} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$\Rightarrow \frac{1}{3} \times \frac{9}{10} = \frac{3}{10}$$

∴ The required result will be $\frac{3}{10}$.

63. Answer: b

Explanation:

Given:

Girls appeared in 2012, 2013, and 2015 respectively = 325, 350, and 325 respectively

Boys appeared in all given years respectively = 225, 250, 300, 280, and 375 respectively

Formula used:

$$GM\% = \frac{GM}{TM} \times 100 \quad \text{Where, GM = Gain marks, TM = Total marks}$$

Calculation:

Let the required percentage be X

The total number of girls = 325 + 350 + 325 = 1000

The total boys in all given years = 225 + 250 + 300 + 280 + 375 = 1430

The required percentage = $\frac{1430 - 1000}{1430} \times 100 = \frac{430}{1430} \times 100 = 0.30069 \times 100 = 30.06\% \approx 30.1\%$

∴ The required result will be 30.1%.

64. Answer: d

Explanation:

Given:

The HCF of two numbers = 12

The LCM of two numbers = 48

Formula used:

Product of two numbers = (HCF of two numbers) \times (LCM of two numbers)

Calculation:

Let the square root of the numbers be X

\Rightarrow Product of the numbers = $12 \times 48 = 576$

$\Rightarrow X = \sqrt{576} = 24$

\therefore The required result will be 24 years.

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65. Answer: a

Explanation:

Given:

The ratio of boys and girls = 35 : 39

Formula used:

Average = Sum of all the terms/Total number of terms

Calculation:

Let the number of girls and boys in school be $39X$ and $35X$ respectively

According to the question

$$\Rightarrow \frac{35X + 39X}{2} = 740$$

$$\Rightarrow 74X = 2 \times 740$$

$$\Rightarrow X = 20$$

The number of girls = $39X = 39 \times 20 = 780$

\therefore The required result will be 780.

66. Answer: d

Explanation:

Given:

$$\text{The expression} = 500 \div \frac{3}{8} \text{ of } \frac{2}{3} \div \left[\frac{5}{3} \text{ of } 300 + 7\frac{1}{2} \div 5\frac{1}{2} \times 1100 \right]$$

Calculation:

$$\Rightarrow 500 \div \frac{3}{8} \text{ of } \frac{2}{3} \div \left[\frac{5}{3} \text{ of } 300 + 7\frac{1}{2} \div 5\frac{1}{2} \times 1100 \right]$$

$$\Rightarrow 500 \div \frac{1}{4} \div \left[500 + \frac{15}{2} \div \frac{11}{2} \times 1100 \right]$$

$$\Rightarrow 500 \div \frac{1}{4} \div \left[500 + \frac{15}{2} \times \frac{2}{11} \times 1100 \right]$$

$$\Rightarrow 500 \div \frac{1}{4} \div \left[500 + \frac{15}{11} \times 1100 \right]$$

$$\Rightarrow 500 \div \frac{1}{4} \div [500 + 1500]$$

$$\Rightarrow 500 \div \frac{1}{4} \div [2000]$$

$$\Rightarrow \frac{500 \times 4}{2000} = 1$$

\therefore The required result will be 1.

67. Answer: c

Explanation:

Given:

At 3% loss selling price of the article = ₹388

Formula used:

$$L = CP - SP$$

$P = SP - CP$ Where, L = Loss, P = Profite, SP = Selling price, and CP = Cost price

Calculation:

Let the cost price of the article be C

According to the question

For 3% loss

$$\Rightarrow \left(\frac{100-3}{100}\right) \times C = 388$$

$$\Rightarrow C = \frac{388}{97} \times 100 = 4 \times 100 = 400$$

$$\Rightarrow \text{The selling price at 8\% profit} = 400 \times \frac{108}{100} = 432$$

∴ The required result will be 432.

68. Answer: d

Explanation:

Given:

The radius of the circle increased by = 19%

Formula used:

Area of the circle = $\pi \times R^2$ Where, R = Radius of the circle

Calculation:

Let the radius of the circle be R

The area of the circle = $\pi \times R^2$

New radius of the circle = 1.19R

New area of the circle = $\pi \times (1.19R)^2 = \pi \times 1.4161R = 1.4161\pi R$

The percentage increase in area = $\frac{1.4161\pi R^2 - \pi R^2}{\pi R^2} \times 100 = 41.61\%$

\therefore The required result will be 41.61%.

69. Answer: b

Explanation:

Given:

The numbers = 21, 22, 60, and 64

Calculation:

According to the question

$$\Rightarrow \frac{21-x}{22-x} = \frac{60-x}{64-x}$$

By dividendo and componendo

$$\Rightarrow 1344 - 64x - 21x + x^2 = 1320 - 22x - 60x + x^2$$

$$\Rightarrow 3x = 24$$

$$\Rightarrow x = 8$$

$$\begin{aligned} \text{The mean proportion} &= \sqrt{\{(x - 2) \times (2x + 8)\}} = \sqrt{\{(8 - 2) \times (2 \times 8 + 8)\}} = \sqrt{(6 \times 24)} \\ &= \sqrt{144} = 12 \end{aligned}$$

∴ The required result will be 12.

70. Answer: a

Explanation:

Given:

The male voter's percentage = 60%

The female voter's percentage = 40%

Formula used:

$$GM\% = \frac{GM}{TM} \times 100 \quad \text{Where, GM = Gain marks, and TM = Total marks}$$

Calculation:

Let the total voters be 100X

The male voters = 60X

The female voters = 40X

The illiterate males = 60X × 0.4 = 24X

The literates females = 40X × 0.25 = 10X

The literate males = 60X - 24X = 36X

The illiterate female = 40X - 10X = 30X

$$\text{The required percentage} = \frac{36X - 30X}{30X} \times 100 = 20\%$$

∴ The required result will be 20%.

71. Answer: c

Explanation:

Given:

The rate of interest increased to = 12.5%

Formula used:

$$SI = \frac{P \times R \times T}{100} \quad \text{Where, SI = Simple interest, P = Principle, R = Rate, and T = Time}$$

Calculation:

Let the principle be P

According to the question

Simple interest for 8%

$$\Rightarrow \frac{P \times 8 \times 1}{100} = \frac{2P}{25} \quad \text{----(1)}$$

Simple interest for 12.5%

$$\Rightarrow \frac{P \times 12.5 \times 1}{100} = \frac{P}{8}$$

The difference in their income

$$\Rightarrow \frac{P}{8} - \frac{2P}{25} = 459$$

$$\Rightarrow \frac{25P - 16P}{200} = 459$$

$$\Rightarrow 9P = 459 \times 200$$

$$\Rightarrow P = 51 \times 200 = 10200$$

\therefore The required result will be 10200.

72. Answer: c

Explanation:

Given:

A complete the 60% of work = 9 days

B complete the work = $7\frac{1}{2}$ days

Formula used:

$W = E \times T$ Where, W = Work, E = Efficiency, and T = Time

Calculation:

Let they together can complete the work in X days

A can complete the work = $\frac{9}{3} \times 5 = 15$ days

B can complete the work = $\frac{15}{2}$ days = 7.5 days

One day work of A = $\frac{1}{15}$

One day work of B = $\frac{1}{7.5}$

According to the question

$$\Rightarrow \frac{X}{15} + \frac{X}{7.5} = 1$$

By solving the equation

The value of X = 5

\therefore The required result will be 5.

73. Answer: a

Explanation:

Given:

Length of the tank = 25 m

Width of the tank = 12 m

Height of the tank = 6 m

Formula used:

The area of the rectangle = lb Where, l = Length, b = Breadth,

Calculation:

The area of the two opposite walls = $2 \times (25 \times 6) = 300$

The area of the two opposite walls = $2 \times (12 \times 6) = 144$

The area of the bottom = $25 \times 12 = 300$

The total area for plastering = $300 + 300 + 144 = 744 \text{ m}^2$

The total cost of plastering = $744 \times 15 = 11160$

\therefore The required result will be 11160.

74. Answer: a

Explanation:

Given:

The sum of the cost price of the two bikes = ₹50,000

Formula used:

$$P = SP - CP$$

$L = CP - SP$ Where, P = Profit, SP = Selling price, CP = Cost price, and L = Loss

Calculation:

Let the cost price of a bike be X

The cost price of a second bike = $50000 - X$

The selling price of a motorcycle = $1.20X$

The selling price of the second bike = $(50000 - X) \times 0.8$

According to the question, both selling prices are the same

$$\Rightarrow 1.20X = (50000 - X) \times 0.8$$

$$\Rightarrow 1.2X + 0.8X = 40000$$

$$\Rightarrow 2X = 40000$$

$$\Rightarrow X = 20000$$

\therefore The required result will be 20000.

75. **Answer: a**

Explanation:

Given:

The total number of students in class A and B = 72

The average marks of all students of A and B = 58

Formula used:

Average = Sum of all the terms/Total number of terms

Calculation:

Let the number of students in class B be X and the average marks of students A be M

According to the question

The total students in A = $X + 0.4X = 1.4X$

$$\Rightarrow X + 1.4X = 72$$

$$\Rightarrow 2.4X = 72$$

$$\Rightarrow X = 30$$

The number of students in A = $1.4X = 1.4 \times 30 = 42$

The number of students in B = 30

The average marks of B = $1.5M$

The total marks of A = $42 \times M = 42M$

The total marks of B = $1.5M \times 30 = 45M$

$$\Rightarrow \frac{42M + 45M}{30 + 42} = 58$$

$$\Rightarrow 87M = 72 \times 58$$

$$\Rightarrow 1.5M = 72$$

The average marks of B = $1.5M = 72$

\therefore The required result will be 72.

76. Answer: c

Explanation:

The correct answer is Indus.

★ Key Points

- Indus water treaty between India and Pakistan was signed in the year 1960.
- The Indus system comprises the main Indus, Jhelum, Chenab, Ravi, Beas, and Sutlej.
- The basin is mainly shared by India and Pakistan with a small share for China and Afghanistan.
- With the partition of India in 1947, the waters of Indus rivers system were also divided.
- The treaty was signed by the then Prime Minister Jawaharlal Nehru and Pakistan's President Ayub Khan.
- It was brokered by the World Bank (International Bank for Reconstruction and Development).
- The sharing formula, devised after prolonged negotiations, sliced the Indus system into two halves.
- The three 'western rivers' (Indus, Jhelum and Chenab) went to Pakistan and the three 'eastern rivers' (Sutlej, Ravi and Beas) were portioned to India.
- India is allowed to use 20% water of the western rivers for irrigation, power generation and transport purposes.

77. Answer: b

Explanation:

The correct answer is 273.16 K.

★ Key Points

- The melting point of ice is the temperature where solid ice changes into liquid water, which is **0 °C, 32 °F, or 273 K**.
- **The melting point of ice at the sea level at normal atmospheric pressure and at 45-degree latitude is 273.16 K**
- **Difference Between Freezing Point and Melting Point**
 - For the most part, the freezing point and melting point of water are the same temperature.
 - **But, sometimes the freezing point is much lower than the melting point.**
- **Freezing Point**

- The freezing point is the temperature at which a liquid becomes a solid.
- As with the melting point, increased pressure usually raises the freezing point.
- **Melting Point**
 - When we apply heat to a solid, its temperature will increase until the melting point is reached. More heat then will convert the solid into a liquid with no temperature change
 - When all the solid has melted, additional heat will raise the temperature of the liquid.
 - The melting temperature of crystalline solids is a characteristic figure and is used to identify pure compounds and elements.

78. Answer: b

Explanation:

The correct answer is West Indies.

★ Key Points

- **Men's Cricket World Cup 1983**
 - The final of the **1983 Cricket World Cup** was played between **India and the West Indies at Lord's on 25 June 1983** .
 - It was the first world win for India by defeating West Indies.
 - **The final was won by India by 43 runs** .
 - Kapil Dev captained the Indian cricket team to victory in the 1983 cricket World Cup.
 - He was the first Indian captain to lift the World Cup on 25th June 1983.
 - Roger Binny of the Indian team was the leading wicket-taker.
 - Mohinder Amarnath was the Man of the Match in the semifinal against England and in the final against the West Indies.
 - In the finals, Mohinder Amarnath (46 from 92 balls, 4 fours, 1 six) picked up the man-of-the-match award for his all-around performance, which includes 3 wickets.

79. Answer: d

Explanation:

The correct answer is Malik Ambar.

★ Key Points

- **Malik Ambar** was the real **founder** of **Aurangabad** city .
- **Malik Ambar** was an **Ethiopian** and had been **brought to India** as a **slave** .
- This able slave rose to **prominence** between **1607 to 1626** , when he was regent of the **Nijamshahis** of the **Ahmednagar** . He **increased** the **strength** of **Murtuza Nizam Shah** and **established** a new city at the site of an old village **Khadki** in **Maharashtra** , which is known as **Aurangabad** today. The name was changed to **Aurangabad** later by **Aurangzeb** .
- The **Guerilla warfare** for which the **Marathas** are best **known** was **pioneered** by **Malik Ambar** .
- He was also the **mobilizing force** behind the **Marathas** , the **farmers** turned into **great warriors** by **Malik Ambar** .
- **Malik Ambar** , the formidable **Habshi** repeatedly routed the imperial armies and recovered **Ahmednagar** . The forces of Prince **Khurram** had drove them back to **Khandesh** but this tactful general created a **Maratha cavalry** which later culminated in the **Great Maratha** Kingdom under the nose of **Aurangzeb** .

80. Answer: b

Explanation:

The correct answer is Mercury.

- **Cinnabar (HgS)** is an ore of **Mercury**.

★ Key Points

- **Cinnabar** is a toxic mercury sulfide mineral of mercury with a chemical composition of HgS .
 - The name cinnabar is derived from the Greek name kinnabari.
 - Its appearance is bright scarlet to brick-red colour.
 - Because of its colour, it was used as jewellery and ornaments for thousands of years in many parts of the world.
-

81. Answer: a

Explanation:

The correct answer is Salman Rushdie.

★ Key Points

- **Imaginary Homelands :Essays and Criticism** from 1981-1991 is a book of essays by acclaimed author **Salman Rushdie**.
 - Though **Rushdie** is best known for his provocative **novels**, most of which are set in and around **India**, this **book features seventy-four of his essays**, which examine **issues of migration ,literature and colonialism ,socialism and political activism, modernism**, and more.
 - **Salman Rushdie:**
 - He is a British-American novelist and essayist of Indian descent.
 - He won the Booker Prize in 1981 for his novel *Midnight's Children*.
 - His book *The Satanic Verses* came into a lot of controversies.
 - Some of his notable writings are *The Ground Beneath Her Feet*, *Midnight's Children*, and *The Moor's Last Sigh*.
-

82. Answer: d

Explanation:

The correct answer is Arunachal Pradesh.

★ Key Points

- In Arunachal Pradesh, Ponu Yoksi (a sword-like instrument) is used during ceremonial dances performed by priests .
 - There are two iron plates in the middle which have holes.
 - When the player moves the sword, the plate starts to play which the priest uses to maintain the rhythm during the ceremonial dance.

★ Additional Information

- Other Instruments of Arunachal Pradesh -
 - 'Ame Bali' is a heavy metal plate that is struck with a stick to keep the beat.
 - 'Kiring' is an instrument similar to the 'ghungroo' with metal beads bound together and the player jingles it with his hand.
 - The 'Emul' is an instrument that is made up of a group of star-shaped metal pieces that when clanged against each other produce a sound.

83. Answer: d

Explanation:

The correct answer is GV Ramakrishna.

★ Key Points

- **GV Ramakrishna** was the **Chairperson** of the **Disinvestment Commission** ,**Ministry of Industry** (Department of Public Enterprises) **established in 1996** .
- Disinvestment is the process of sale or liquidation of assets by the Central or State Government usually Central and State public sector enterprises, projects, or other fixed assets .
- Strategic Disinvestment is the process of transfer of the ownership and control of a public sector entity to some other entity mostly to a private sector entity .
- The disinvestment in which at the end the Government retains a majority stake in the company typically greater than 51% thus ensuring the

management control is called Minority Disinvestment .

- The disinvestment in which the Government after disinvestment retains a minority stake in the company is called Majority disinvestment.
- This disinvestment commission ceased to exist in May 2004 .
- On 14th April 2016 , the Department of Disinvestment was renamed as Department of Investment and Public Asset Management (DIPAM) .
- In November 2005 National Investment Fund was constituted to channelize the proceeds from the disinvestment of Central Public Sector Enterprises .
- Disinvestment helps in creating a better environment for investment.

84. Answer: a

Explanation:

The Correct Answer is Ayodhya.

- Ayodhya, a city in Uttar Pradesh is situated on the banks of the River Sarayu.

★ Key Points

- River Sarayu :
 - The Sarayu originates from Lake Mansarovar in the Himalayas.
 - It is also known as the Ghaghra and the Manas Nandini.
 - It merges with the Ganga in Bihar.

★ Additional Information

- River Narmada :
 - It is the largest west flowing river.
 - It acts as the boundary between North and South India.
 - It originates in the Amarkantak plateau, where the Vindhya and Satpura mountain ranges meet.
 - It flows through the states of Madhya Pradesh, Maharashtra, and Gujarat before emptying into the Arabian sea.
- River Periyar:
 - It is the longest river in the state of Kerala.

- It is also known as The lifeline of Kerala.
- It originates in the Sivagiri Hills of the Western Ghats.
- It empties or drains into the Arabian Sea.
- River Mandovi :
 - It originates in the Western Ghats of Belagavi district, Karnataka
 - Panaji is situated on the banks of the river “Mandovi”.
 - It is described as the lifeline of the Indian state of Goa.
 - The river passes through Karnataka and goa before it emptying into the Arabian Sea.

85. Answer: c

Explanation:

The correct answer is Goa.

★ Key Points

- ‘ **Balchao** ’ and ‘ **Sorpotel** ’ are the traditional culinary dishes of **Goa** .
- **Balchão** is a spicy **seafood** or **meat dish** in **Goan** cuisine.
- **Balchão** is a method of **cooking** , made with **fish** (de peixe), and **prawns** (de camarão), in a **spicy and tangy tomato-chilli sauce**.
- It resembles **pickling** and can be **made days** in **advance** without **reheating** .
- The **traditional balchão** uses a **paste** made from **dried shrimp** known as **galambo** in **Konkani** .
- **Sorpotel** is unarguably the **essence** of **Goan Christian cuisine** .
- Adapted from the **Portuguese** dish of * **Sarabulho** , it is served **traditionally** at **Christmas** and on **feast days** .
- **Sorpotel** is one of those **classic dishes** that truly highlights the **melange** of **Goan** and **Portuguese** cultures in the **cuisine** of this state – **Goan** because of the **generous** use of **spices** ;**Portuguese** because of the use of **vinegar** , which is **hardly** seen **elsewhere** .
- It is a rich **stew** that is made from pork although sometimes **liver** ,**heart** , and **kidney** are also **added** .

- Preparing sorpotel is a long procedure: first, the meat is parboiled , finely diced ,fried , and then cooked in spices and vinegar.

86. Answer: b

Explanation:

The correct answer is folk dance.

★ Key Points

- Bagurumba Folk dance is performed by the Bodo tribe of Assam .
- It is performed during the spring season.
- It is as known as the " butterfly dance ".

★ Important Points

State	Dance Form
Assam	Bagurumba, Bihu
Kerela	Chakyar Koothu
Rajasthan	Ghoomar
Jharkhand, West Bengal, and Odisha	Chhau

87. Answer: b

Explanation:

The correct answer is Rule 193.

★ Key Points

- **Rule 193** refers to the **discussion in Lok Sabha** which **does not come under regular or formal motion** moved before the House.
- Unlike regular motions, **it does not have a voting** on the discussion.
- Only the members who intimated the speaker will speak during the discussion.
- At the **end of the discussion** , the **Minister concerned gives a brief reply** .

★ Additional Information

- Generally various discussions happen in the House which are formally moved and voting is held.
- **Rule 193 is Short Duration Discussion** which was incorporated into the Rules of Procedure and Conduct of Business in Lok Sabha.
- It was **introduced to provide opportunities to Members to discuss matters of urgent public importance** .
- Under this Rule, **members can raise discussion for short durations** without a formal motion or vote thereon.

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88. Answer: c

Explanation:

The correct answer is 1976.

★ Key Points

- **India** is a party to the convention (CITES) and **joined in 1976** .
- A resolution was adopted in 1963 at the IUCN meeting and **CITES came into force on 1 July 1975** .
- It aims at **preventing the trade in specimens of Wildlife** that pose a threat to their survival .

- It provides the **framework for the countries** and the parties have to prepare domestic laws for implementation.

★ Additional Information

- **CITES** (Convention on International Trade in Endangered Species of Wild Fauna and Flora)
 - It is an **international agreement between governments** .
 - Its aim is to ensure that international trade in specimens of wild animals and plants does not threaten the survival of the species.
 - It **works with** concerned **international organizations** to **check the illegal wildlife trade** .
 - It **prepares a list of region wise species to be protected** .
 - Headquarters: **Geneva** , Switzerland.

89. Answer: d

Explanation:

The correct answer is Tripura.

★ Key Points

- **Muhuri** is a river **originating** from Lushai Hills in **North-East India** .
- It **originates** and flows through in the **southern part of Tripura** and **enters Bangladesh**.
- It joins **River Fani** near the **Bay of Bengal**.

★ Additional Information

- River Muhuri is one among many transboundary rivers present across the India- Bangladesh border.
- The **island Muhuri Char** , along the course of Muhuri, is a **bone of contention between the countries** .
- It is a fertile and uninhabited island.

- The issue has remained unresolved since the time at which the issue arose because of the change in the course of the river.

90. Answer: d

Explanation:

The correct answer is Peasants' uprising.

★ Key Points

- Patharughat uprising is the **peasants' revolution** in the state of **Assam** .
- It **took place on 28th January 1894 in Patharughat** near Guwahati.
- The **major reason** behind the farmer's revolt is the **high rate of taxes imposed by the British government** .
- The **British government suppressed them on the grounds of sedition** and **opened fire on the peasants killing a large number of people** .
- The Assam state government has been **observing the day as Krishak Swahid Diwas** to commemorate the sacrifice and valour of the farmers.

★ Additional Information

- **Some peasant uprisings:**
 - Rangpur Dhing (1783) in Rangpur, Bengal.
 - Narkelberia Uprising (1831) in Bengal
 - Pagal Panthi Movement(1825) in the Bengal region
 - Pabna revolt (1873-76) in the Bengal region(now Bangladesh)
 - Deccan Uprising (1875) in Bombay Deccan region (present-day Pune & Ahmednagar)

91. Answer: d

Explanation:

The correct answer is Cow.

★ Key Points

Ruminants :-

- The **mammals** that are able to acquire nutrients from plant-based food by **fermenting** it in a specialized stomach prior to digestion, principally through **microbial actions** .
- They have **four compartments** to the stomach instead of one.
- Of the four compartments, the **rumen** is the largest and main digest center.
- Generally, the four-chambered rumen is found in **Cattle ,Sheep ,Deer , Goat**.
- Except for Camel Which has **three-chambered rumen** .
- The main product of ruminant digestion is **Volatile fatty acids** .

92. Answer: b

Explanation:

The correct answer is Solder.

★ Key Points

- Alloy
 - An alloy is a mixture of **a metal** with **at least** one other **element** .
 - Metals are alloyed to **improve** on **properties** of pure metals such as **hardness ,strength ,corrosion resistance** , etc.
 - Ex: Instead of **pure aluminum** an alloy of aluminum having a **combination** of **Al-Zn-Mg-Cu-Mn** (A five element alloy) is used to construct the **aircraft body** .
- Solder
 - Solder is an alloy consisting of **Tin** and **Lead** .
 - It is made by heating these metals together.
 - These are also known as **soft solders** since they contain tin concentration between **5%** and **70%** by weight.

★ Additional Information

- Alnico
 - **Alnico magnets** are permanent magnets that are primarily made of **aluminum ,nickel** and **cobalt** .
 - This development and introduction of Alnico meant that expensive electromagnets could be replaced with permanent magnets in essential devices like **motors** and **generators** .
- Nickel
 - Nickel is a chemical element with symbol **Ni** and atomic number **28** .
 - It is a silvery-white lustrous metal with a **slight golden tinge** .
 - It is **hard** and **ductile** .
- Constantan
 - Constantan is alloyed from **Copper** and **Nickel** metals.
 - This normally consists of **55% copper** , and **45% nickel** .
 - The key feature is the **low thermal variation** of its **resistivity** , which is constant over a **large temperature range** .

93. Answer: a

Explanation:

The correct answer is Saurabh Chaudhary.

★ Key Points

- **Saurabh Chaudhary** is an Indian sports ace pistol shooter who won a gold medal in the 10 m Air Pistol at the 2018 Asian Games.
- He was the Asian Games' youngest gold medalist from India.
- In the ISSF Junior World Cup in Suhl, Germany, he had already won gold medals and set a new junior world record.
- He is the first Indian shooter to have won gold in the ISSF World Championship, ISSF World Cup, Youth Olympic Games, Asian Games, and Asian Air Gun Championship.

- In January 2020, he earned 63rd gold in men's 10-meter air pistol at the 63rd National Shooting Championship.



94. Answer: a

Explanation:

The correct answer is Pradeep Puthoor.

★ Key Points

- The fellowship worth **Rs 10 lakh** is given to artists who have made creative contributions **in the field of artistry** .
- Pradeep Puthoor received a fellowship in **2003 also** .
- Pradeep Puthoor became the **first Indian** to win the award for the **second time** .
- Pollock Krasner Foundation
 - It was established in **1985** .
 - Its headquarter is in **New York** .
 - The Current President is **Samuel Sachs II**.
 - The present Chairman and CEO is **Ronald D. Spencer** .

95. Answer: a

Explanation:

The correct answer is Atal Bihari Vajpayee.

★ Key Points

- **Atal Bihari Vajpayee**
 - He was a prominent Indian politician and statesman.
 - He belongs to the **Bharatiya Janata Party (BJP)**.
 - He was the **first prime minister of India** who did not belong to the Congress party and had served a full term in office.
 - He was among the founding members of the **Bharatiya Jana Sangh**.
 - In **2015**, He received the **Bharat Ratna**.

★ Additional Information

- **IK Gujral**
 - The Gujral Doctrine is one of the most important doctrines in **India's foreign policy**.
 - It was propounded and initiated in **1996** by **I.K. Gujral**.
 - He was then **Foreign Minister** in the Deve Gowda Government.
 - I.K. Gujral also served as the **Prime Minister of India** from **April 1997** to **March 1998**.
- **PV Narsimha Rao**
 - **Pamulaparthi Venkata Narasimha Rao** (28 June 1921 – 23 December 2004) was an Indian lawyer and politician who served as the **9th Prime Minister of India** from **1991** to **1996**.
 - He is often referred to as the "**Father of Indian Economic Reforms**".
 - **PV Narsimha Rao** was also referred to as **Chanakya** for his ability to steer economic and political legislation through the parliament at a time when he headed a minority government.
- **HD Deve Gowda**
 - On May 18, 1933, he was born in **Haradanahalli village of Holenarasipura taluk, Hassan District in Karnataka**.

- On **December 11, 1994** , he assumed office as the **14th Chief Minister of Karnataka** .
- He resigned as the Chief Minister of Karnataka on May 30, 1996, to be sworn in as the **11th Prime Minister of India** ..

96. Answer: d

Explanation:

The correct answer is India.

★ Key Points

- India is second largest producer of agricultural products as per February 2019
- India is the world's largest producer of milk, pulses and jute.
- India ranks as the second largest producer of rice, wheat, sugarcane, groundnut, vegetables, fruit and cotton.
- It is also one of the leading producers of spices, fish, poultry, livestock and plantation crops.

★ Additional Information

- India is in the top ten list of agricultural produce exporters in 2019 with a significant share within the export of **rice, soya beans, cotton, and meat**.
- This was given in a report by World Trade Organisation (WTO) on trends in world agricultural trade in recent 25 years.
- In 2019, India ranked ninth with a share of 3.1% in global agricultural exports.
- WTO:
 - About - WTO is an intergovernmental organization that regulates and facilitates international trade between nations.
 - Headquarters - Geneva, Switzerland.
 - Founded On - 1 January 1995.

97. Answer: a

Explanation:

The correct answer is 68th.

★ Key Points

- India was ranked at 68th position in the World Economic Forum's Global Competitiveness Index, 2019.
- In the overall competitiveness ranking, Singapore replaced the US to take the first position.
- In South Asia, India is followed by Sri Lanka (84), Bangladesh (105), Nepal (108), and Pakistan (110).
- Countries like Colombia (57), Azerbaijan (58), South Africa (60), and Turkey (61) surpassed India in this year's survey.

★ Additional Information

- India's rank in important indices (2021):

Global Health Security Index	66th
Global Food Security Index	71st
Global Hunger Index	101st
Global Innovation Index	46th
World Press Freedom Index	142th
International Intellectual Property Index	40th

98. Answer: d

Explanation:

The correct answer is Sodium Chloride.

★ Key Points

- **Sodium chloride**, commonly known as **table salt**, is an **ionic compound** with the chemical formula **NaCl**.
- In its edible form of table salt, it is commonly used as a **condiment** and **food preservative**.
- Sodium Chloride has a **1:1 ratio of sodium and chloride ions**.
- With molar masses of 22.99 and 35.45 g/mol respectively, **100 g of NaCl contains 39.34 g Na and 60.66 g Cl**.

★ Additional Information

- Sodium chloride is the salt most responsible for the **salinity of seawater** and of the extracellular fluid of many multicellular organisms.
- Large quantities of sodium chloride are **used in many industrial processes**, and it is a major source of sodium and chlorine compounds used as feedstocks for further chemical syntheses.
- A second major application of sodium chloride is **de-icing of roadways** in sub-freezing weather.

99. Answer: d

Explanation:

The correct answer is Kapilendra Deva.

★ Key Points

- **Kapilendra Deva** was the founder of the **Suryavamsa Gajapati dynasty** that ruled parts of **Orissa and Andhra Pradesh in the 15th century**.
- He had staged a military coup against the preceding and the **last Eastern Ganga dynasty ruler Bhanu Deva IV** and overtook the throne.
- In claiming descent from the **Surya Vamsha (Sun dynasty)** of the **Mahabharata**, he also took the title **Shri Shri (108 times) Gajapati Gaudeshwara NabaKoti Karnata Kalabargeswara**.
- This title is still used by their descendants at **Puri** during the **Ratha Yatra**.

★ Additional Information

- Other significant rulers of this dynasty were **Purushottama Deva** (1467–1497) and **Prataparudra Deva** (1497–1540).
- The last ruler **Kakharua Deva** was killed by **Govinda Vidyadhara** in 1541, who founded the **Bhoi dynasty**.
- The Gajapati kings **patronized Vaishnavism** and were ardent devotees of **Lord Vishnu**.
- They also built many temples dedicated to Lord Vishnu.

100. Answer: b

Explanation:

The correct answer is Arundhati Roy.

★ Key Points

- The **End of Imagination** is a compendium of essays that brings together five of Arundhati Roy's books.
- It was released in 2016. This book includes her nonfiction works *Power Politics*, *War Talk*, *Public Power in the Age of Empire*, and *An Ordinary Person's Guide to Empire*, which include her widely circulated and inspiring writings on the U.S. invasions of Afghanistan and Iraq, the need to confront corporate power, and the hollowing out of democratic institutions globally.
- Arundhati Roy's written novel "The God of Small Things" won the Man Booker Prize for Fiction in 1997.

★ Additional Information

<u>Writer</u>	<u>Book names</u>
Arundhati Roy	The End of Imagination
Shobha De	Snapshots
Chetan Bhagat	Girl in Room 105
Amitav Ghosh	Ibis Trilogy

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