



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



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC CHSL 2021 (Tier-I) Previous Year Paper (08-Jun-2022) (Shift 2)

Total Time: 1 Hour

Total Marks: 200

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	English Language	25	50	0.5	2
2	General Intelligence	25	50	0.5	2
3	Quantitative Aptitude	25	50	0.5	2
4	General Awareness	25	50	0.5	2

- 1.) A total of 60 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.

English Language

1. Select the most appropriate synonym of the given word. (+2, -0.5)

Deception

- a. Reliability
- b. Cruelty
- c. Cunning
- d. Exception

-
2. Select the most appropriate ANTONYM of the given word. (+2, -0.5)

Frivolous

- a. Popular
- b. Reputed
- c. Nervous
- d. Serious

-
3. Select the option that will improve the underlined part of the given sentence. (+2, -0.5)

Don't provoke Harsha, otherwise, she will give you a slap.

- a. Do not vacillate Harsha
- b. Do not exasperate Harsha
- c. Do not hesitate Harsha

d. Do not equivocate Harsha

4. Select the most appropriate option to fill in the blank. (+2, -0.5)

We're asking them to _____ the deadline.

- a. increase
 - b. enlarge
 - c. broaden
 - d. extend
-

5. Select the most appropriate ANTONYM of the highlighted word. (+2, -0.5)

His action doesn't **warrant** such a punishment.

- a. captivate
 - b. support
 - c. triumph
 - d. breach
-

6. Select the sentence which has no spelling error. (+2, -0.5)

- a. When Reema saw her mother, she was in ecstasy.
- b. Students got in acstasy during inter college baseball match.
- c. Sandeep was in ektasy when his son won a scholarship.
- d. My cousin closed his eyes in extasy at the thought of coffee.

7. Select the option that can be used as a one-word substitute for the given group of words. (+2, -0.5)

One who makes an active effort to promote human welfare

- a. Philanthropist
- b. Philosopher
- c. Philanderer
- d. Physicist

8. Select the option that expresses the given sentence in passive voice. (+2, -0.5)

I am training a new batch of officers now.

- a. A new batch of officers are trained now.
- b. A new batch of officers were being trained by me now.
- c. A new batch of officers are training me now.
- d. A new batch of officers is being trained by me.

9. Select the most appropriate option that can substitute the underlined segment in the given sentence. (+2, -0.5)

If there is no need to substitute it, select 'No substitution required'. We are waiting for the minister for the last two hours.

- a. We have been waiting
- b. No substitution required

- c. We were waiting
 - d. We would be waiting
-

10. Select the option that expresses the given sentence in passive voice. (+2, -0.5)

Teachers love their students.

- a. Students are being loved by their teachers.
 - b. Students are loved by their teachers.
 - c. Students have been loved by their teachers
 - d. Students will be loved by their teachers.
-

11. Select the most appropriate synonym of the given word. (+2, -0.5)

Benign

- a. Beneficiary
 - b. Boisterous
 - c. Benevolent
 - d. Boring
-

12. Select the option that will improve the underlined part of the given sentence. (+2, -0.5)

I find playing chess to be difficult than playing poker.

- a. to be more difficult

- b. to be lesser difficult
- c. to be most difficult
- d. to be same difficult

13. Select the most appropriate meaning of the given idiom. (+2, -0.5)

In your birthday suit

- a. Birthday celebrations
- b. A suit which is designed for only birthday functions
- c. Not wearing any clothes
- d. A suit which covers one's entire body

14. Select the option that can be used as a one-word substitute for the given group of words. (+2, -0.5)

A person who loves and collects books

- a. Booker
- b. Bibliophile
- c. Bookworm
- d. Biographer

15. Select the most appropriate meaning of the highlighted idiom. (+2, -0.5)

The coach was trying **to twist the player's arm** by asking him to practice throughout the day.

- a. To try to force someone to do something
 - b. To refrain from resting
 - c. To train someone in warfare
 - d. To console the weak
-

16. Select the option that expresses the given sentence in passive voice. (+2, -0.5)

I need to evaluate all the options available by the end of this month.

- a. All the options available will be needed to evaluate by the end of this month.
 - b. I needed to evaluate all the options by the end of this month.
 - c. All the options will be needing evaluation with the end of this month.
 - d. All the options available need to be evaluated by me by the end of this month.
-

17. Select the most appropriate ANTONYM of the given word. (+2, -0.5)

Fanatic

- a. Tolerant
 - b. Extremist
 - c. Lunatic
 - d. Fantastic
-

18. Select the INCORRECTLY spelt word.

(+2, -0.5)

- a. Occesion
- b. Scissors
- c. Humorous
- d. Mysterious

19. Select the most appropriate meaning of the given idiom.

(+2, -0.5)

Cast aside

- a. To blow up
- b. To bear with
- c. To display
- d. To reject

20. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

(+2, -0.5)

A. People post images of their cuisine, daily cosmetic routines, shopping videos, and dance videos.

B. Uploading photos to social networking sites has grown popular in today's society.

C. Because of the rising influence of social media on people, they want to constantly appear their best.

D. Therefore people have become more image sensors and begun to prioritise personal care.

- a. ABCD
 - b. BACD
 - c. ACBD
 - d. BCAD
-

21. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Conservation of water is not the (1) _____ of only the government. Common citizens can also make a significant (2) _____ in this field. To begin with, we must be conscious that water is life, that it is a precious natural resource and needs to be used (3) _____. Being conscious will help us to avoid (4) _____. There are a few simple things that all of us can do. We must not use (5) _____ water to clean our car or house.

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

- a. drinking
 - b. sewage
 - c. stored
 - d. cold
-

22. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Conservation of water is not the (1)_____ of only the government. Common citizens can also make a significant (2)_____ in this field. To begin with, we must be conscious that water is life, that it is a precious natural resource and needs to be used (3)_____. Being conscious will help us to avoid (4)_____. There are a few simple things that all of us can do. We must not use (5)_____ water to clean our car or house.

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

- a. greed
- b. storage
- c. wastage
- d. extraction

-
23. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Conservation of water is not the (1)_____ of only the government. Common citizens can also make a significant (2)_____ in this field. To begin with, we must be conscious that water is life, that it is a precious natural resource and needs to be used (3)_____. Being conscious will help us to avoid (4)_____. There are a few simple things that all of us can do. We must not use (5)_____ water to clean our car or house.

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

- a. effectively
- b. hopefully
- c. carelessly
- d. judiciously

24. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Conservation of water is not the (1)_____ of only the government. Common citizens can also make a significant (2)_____ in this field. To begin with, we must be conscious that water is life, that it is a precious natural resource and needs to be used (3)_____. Being conscious will help us to avoid (4)_____. There are a few simple things that all of us can do. We must not use (5)_____ water to clean our car or house.

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

- a. Summation
- b. Indication
- c. Contribution
- d. Connection

25. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Conservation of water is not the (1)_____ of only the government. Common citizens can also make a significant (2)_____ in this field. To begin with, we must be conscious that water is life, that it is a precious natural resource and needs to be used (3)_____. Being conscious will help us to avoid (4)_____. There are a few simple things that all of us can do. We must not use (5)_____ water to clean our car or house.

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

- a. Responsibility

- b.** Complexity
- c.** Facility
- d.** Opportunity

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General Intelligence

26. In a certain code language, 'PENCIL' is written as '1771771418' and 'ERASER' is written as '6204231024'. How will 'SHARPNER' be written in that language? (+2, -0.5)

- a. 201042221201226
- b. 201042221201227
- c. 201042221201224
- d. 201042221201223

27. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation. (+2, -0.5)

$$14 * 18 * 7 * 79 * 33$$

- a. +, x, =, -
- b. +, -, =, x
- c. =, x, -, -
- d. -, =, x, +

28. The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs except one. Find that odd number pair. (+2, -0.5)

- a. 9 : 125
- b. 11 : 49

c. 13 : 343

d. 7 : 64

29. In a certain code language, 'I know you' is written as 'Ha Hi He', 'I like French' is written as 'Ho Hu Ha' and 'you like me' is written as 'He Ho Haa'. How will 'me' be written in that language? (+2, -0.5)

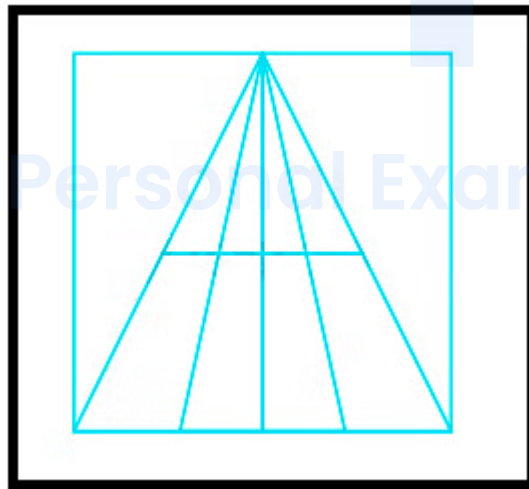
a. Haa

b. Hu

c. Ha

d. Hi

30. How many triangles are there in the given figure ? (+2, -0.5)



a. 19

b. 20

c. 21

d. 22

31. Select the set in which the numbers are related in the same way as are the numbers of the following set. (+2, -0.5)

(25,19,14)

(50, 28, 30)

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

a. (41, 24, 36)

b. (31, 20, 25)

c. (24, 17, 21)

d. (35, 22, 21)

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32. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation (+2, -0.5)

$$60 * 6 * 3 * 18 * 49 * 5$$

a. $\times, +, \div, -, =$

b. $\div, +, -, \times, =$

c. $\times, +, -, \div, =$

d. $\div, -, \times, +, =$

33. Study the given pattern carefully and select the number that can replace the question mark (?) in it. (+2, -0.5)

First row – 67, 25, 101

Second row – 55, 17, 97

Third row – 45, 19, ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

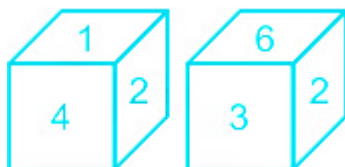
- a. 67
- b. 72
- c. 92
- d. 59

34. Select the option that represents the letters that, when placed from left to right in the given blanks, will complete the letter series. (+2, -0.5)

J _ M K L J J _ K L J J _ K L _ J P _ L

- a. J N O J K
- b. J N J K O
- c. N J K J O
- d. N J J O K

35. Two different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be the result of the sum of 2 and the number appearing opposite to '2'. (+2, -0.5)



- a. 10
- b. 7
- c. 9
- d. 8

36. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation. (+2, -0.5)

$$16 * 2 * 4 * 8 * 10 * 30$$

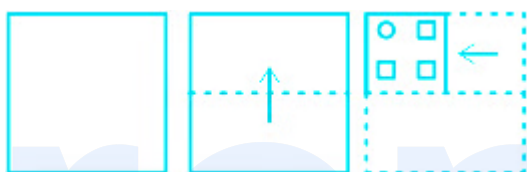
- a. $\div, \times, +, -, =$
- b. $\div, \times, -, +, =$
- c. $\times, \div, -, +, =$
- d. $-, +, \times, \div, =$

37. Select the correct mirror image of the given combination when the mirror is placed at MN as shown. (+2, -0.5)



- a. $\Sigma w \partial \varepsilon j w$
- b. $\Sigma m \partial \varepsilon j w$
- c. $w j \partial \varepsilon m \Sigma$
- d. $\Sigma m \partial \varepsilon j w$

38. A paper is folded and cut as shown. How will it appear when unfolded ? (+2, -0.5)



- a.
- b.
- c.
- d.

39. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term. (+2, -0.5)

REMOVAL : MEROLAV :: TYPICAL : PYTILAC :: NUCLEAR : ?

- a. CUNRLAE
- b. CUNLREA
- c. CUNRAEL
- d. CUNLRAE

40. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation. (+2, -0.5)

57 * 35 * 7 * 14 * 2 * 71

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

41. Which letter-cluster will replace the question mark (?) to complete the given series? (+2, -0.5)

HSDA, IZQT, ?, KNQF, LUDY

- a. JUEW
- b. JGDM

c. JKDS

d. JBCR

42. The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number-pairs EXCEPT one. Find that odd number-pair. (+2, -0.5)

a. 169 : 10

b. 196 : 11

c. 64 : 5

d. 36 : 2

43. Which of the following numbers will replace the question mark (?) in the given series? (+2, -0.5)

7, 19, 4, ?, 1, 25

a. 15

b. 22

c. 18

d. 21

44. In a certain code language, 'GREEN' is written as 'HTHIS' and 'SAFFRON' is written as 'TCIJWUU'. How will 'WHITE' be written in that language? (+2, -0.5)

a. XJLXJ

b. XJLWJ

c. XLLXJ

d. XJLVJ

-
45. Three Statements are given followed by Three conclusions numbered I, II and III. 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. (+2, -0.5)

Statements:

All ices are blues.

No ice is yellow.

Some pinks are ices.

Conclusions:

I. Some yellows are blues.

II. No pink is blue.

III. No yellow is blue.

a. None of the conclusions follow.

b. Both conclusions I and II follow.

c. Both conclusions I and III follow.

d. Only conclusion II follows.

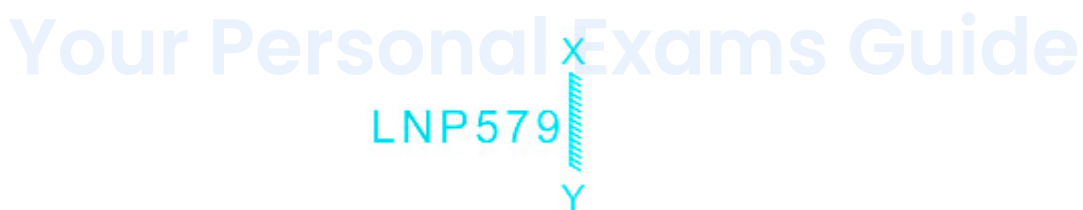
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46. If 1st August 2009 was a Saturday, then what was the day of the week on 1st August 2013? (+2, -0.5)

- a. Saturday
- b. Thursday
- c. Friday
- d. Sunday

47. If 15 August 2001 was Wednesday, then what was the day of the week on 2 October 2001? (+2, -0.5)

- a. Sunday
- b. Monday
- c. Tuesday
- d. Wednesday

48. Select the correct mirror image of the given combination when the mirror is placed at XY as shown. (+2, -0.5)



- a. 975PNL
- b. LNP579
- c. 975PNL
- d. 250LNP

49. Select the correct mirror image of the given combination when the mirror is placed at MN as shown. (+2, -0.5)



- a. 478s1q
- b. 478s1q
- c. 478s1q
- d. 478s1q

50. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number. (+2, -0.5)

13 : 195 :: 7 : 63 :: 18 : ?

- a. 360
- b. 330
- c. 378
- d. 342

Quantitative Aptitude

51. If $\sin \theta = \frac{12}{13}$, $0 < \theta < 90^\circ$, then $\frac{\sin^2 \theta - \cos^2 \theta}{2 \sin \theta \cdot \cos \theta} \times \frac{1}{\tan^2 \theta} =$ ----- . (+2, -0.5)

- a. $\frac{295}{3456}$
- b. $\frac{590}{3542}$
- c. $\frac{695}{3542}$
- d. $\frac{595}{3456}$

52. What is the value of the following expression ? (+2, -0.5)

$$2^2 \left(\frac{x^a}{x^b}\right)^{(a+b)} \times 3^2 \left(\frac{x^b}{x^c}\right)^{(b+c)} \times 6^{-2} \left(\frac{x^c}{x^a}\right)^{(a+c)}$$

- a. 1
- b. 0
- c. 4
- d. 9

53. What value must be given to '*' to make $6347*25$ exactly divisible by 11? (+2, -0.5)

- a. 1
- b. 2
- c. 8
- d. 0

54. The average weight of each box in a consignment of 20 boxes of mangoes and 15 boxes of apples is 30 kg. If the average weight of a box of mangoes is 35 kg, then what is the average weight of a box of apples? (+2, -0.5)

a. $\frac{70}{3}$ kg

b. $\frac{75}{2}$ kg

c. $\frac{70}{5}$ kg

d. $\frac{26}{5}$ kg

55. The average runs of a cricket player in 20 matches is 30. If the average of the first 12 matches is 40, find the average of the last 8 matches. (+2, -0.5)

a. 14

b. 15

c. 16

d. 18

56. The following table shows the number of students of seven colleges participating in extra-curricular activities. Study the table and answer the question that follows. (+2, -0.5)

Extra Curricular Activities	College						
	A	B	C	D	E	F	G
I	150	250	450	50	350	250	150
II	50	150	150	50	50	50	50
III	100	50	400	125	100	500	150
IV	250	125	350	275	250	150	150

The colleges in which the minimum number of students participate in extra-curricular activities are :

- a. E and G
- b. A and E
- c. D and G
- d. B and D

57. If $X - \frac{1}{x} = 11$ and $x > 0$, what is the value of $(x^2 - \frac{1}{x^2})$?

(+2, -0.5)

- a. $-11\sqrt{123}$
- b. $55\sqrt{5}$
- c. $11\sqrt{123}$

d. $-55\sqrt{5}$

58. The ratio of the cost price to the marked price of an article is 4 : 7. A discount of 25% is given on the marked price and the shopkeeper made a profit of ₹50. Find the cost price of the article. (+2, -0.5)

a. ₹160

b. ₹165

c. ₹150

d. ₹155

59. A shopkeeper claims that he is selling sugar at Rs.27/kg which cost him Rs.30/kg, but he gives 750 grams instead of 1000 grams. What is his profit or loss percentage? (+2, -0.5)

a. 10% loss

b. 7.5% profit

c. 2.5 %loss

d. 20% profit

60. Two trains having lengths of 230 m and 240 m are 130 m apart. They start moving towards each other on parallel tracks, at speeds of 160 km/h and 200 km/h, respectively. In how much time will the trains cross each other? (+2, -0.5)

a. 5 sec

b. 6 sec

c. 8 sec

d. 7 sec

61. 40% of the cost price of an article is equal to 30% of its selling price. The approximate percentage of profit or loss on the cost price is: (+2, -0.5)

a. 44.44% profit

b. 42.22% loss

c. 35.55% loss

d. 33.33% profit

62. Find the radius of the circle $x^2 + y^2 - 4x + 6y = 12$. (+2, -0.5)

a. 4 cm

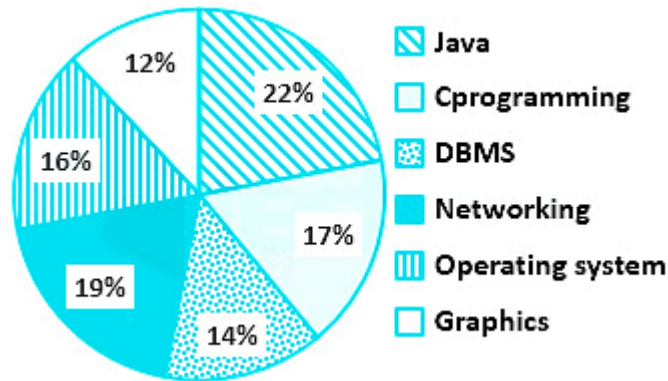
b. 3 cm

c. 5 cm

d. 2 cm

63. The pie chart shows the percentage-wise break up of students in terms of specialisation in Engineering. (+2, -0.5)

Total number of students = 8000



What is the total number of students having specialisation in Operating System, Java and DBMS ?

- a. 4640
- b. 5260
- c. 4008
- d. 4160

64. In what time will ₹3,90,625 amount to ₹4,56,976 at 8 % per annum, interest being compounded half-yearly? (+2, -0.5)

- a. 2 years
- b. $1\frac{1}{2}$ years
- c. $2\frac{1}{2}$ years
- d. 1 year

65. Find the compound interest on ₹1,60,000 at 10% per annum for 2 years if the interest is compounded half-yearly. (+2, -0.5)

- a. ₹32,282

b. ₹34,481

c. ₹33,458

d. ₹35,550

66. A, B and C can do a work in 5 days, 6 days and 10 days, respectively. Working together, in how many days will they finish the same work? (+2, -0.5)

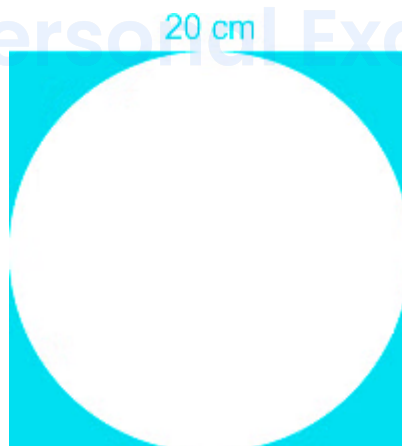
a. $2\frac{1}{7}$

b. $4\frac{1}{7}$

c. $3\frac{1}{7}$

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

67. Each edge of the following square is 20 cm long, and a circle is inscribed in the square as shown. What is the area of the shaded region? [Use $\pi = 3.14$.] (+2, -0.5)



a. 88 cm^2

b. 85 cm^2

c. 86 cm²

d. 84 cm²

68. The diameter of the base of a right-circular cylinder is 12 cm and the height of the cylinder is 2.45 times the radius of its base. Find the volume of the cylinder. [Use $\pi = \frac{22}{7}$] (+2, -0.5)

a. 1636.2 cm³

b. 1666.2 cm³

c. 1663.2 cm³

d. 1665.2 cm³

69. If y varies directly with x, and y = 61 when x = 42, find y when x = 54 (consider integral value). (+2, -0.5)

a. 86

b. 78

c. 82

d. 72

70. What is the area of an equilateral triangle whose each sides is 12 cm? (+2, -0.5)

a. $36\sqrt{3}$ cm²

b. $38\sqrt{3}$ cm²

c. $34\sqrt{3}$ cm²

d. $40\sqrt{3} \text{ cm}^2$

71. Simplify the following expression.

(+2, -0.5)

$$\frac{17.46^2 - 4.46^2}{17.46 + 4.46}$$

a. 13

b. 17

c. 21.92

d. 4

72. The salaries of X, Y and Z are in the ratio 2 : 3 : 5. By what percentage is the salary of Z more than that of X?

(+2, -0.5)

a. 100

b. 200

c. 120

d. 150

73. The average of two numbers is 96. If 2 is added to the smaller number, the ratio between the numbers becomes 2 : 3. The smaller number is

(+2, -0.5)

-----.

a. 116.4

b. 132.4

c. 75.6

d. 59.6

74. What is the value of $\left[\frac{1}{5} + \left\{\frac{1}{7} \text{ of } \left(\frac{25}{42} \div \frac{35}{6}\right) - \left(\frac{4}{7} \times \frac{6}{5} \div \frac{54}{63}\right)\right\} + \frac{28}{40}\right]$ (+2, -0.5)

a. $\frac{403}{3430}$

b. $\frac{99}{490}$

c. $\frac{383}{3430}$

d. $\frac{393}{3430}$

75. Study the given table carefully to answer the question that follows. (+2, -0.5)

The following table gives the information about the population of five different cities in the year 2020.

City	Total Population	% of Men	% of Women	% of Children
P	46800	45%	35%	20%
Q	45400	35%	50%	15%
R	42000	48%	42%	10%
S	39250	42%	42%	16%
T	46200	40%	45%	15%

The number of children in city S is:

- a. 6130
- b. 6820
- c. 6310
- d. 6280



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General Awareness

76. Which of the following is the debut novel of Indian novelist Chetan Bhagat, who received the Society Young Achievers Award and the Publisher's Recognition award for his works? (+2, -0.5)
- a. The Three Mistakes of My Life
 - b. Five Point Someone
 - c. Revolution 2020
 - d. What Young India Wants
-
77. Identify the disease caused by a monkey bite. (+2, -0.5)
- a. Malaria
 - b. Typhoid
 - c. Influenza
 - d. Rabies
-
78. Which dancer was awarded in 1968 with a gold medal by the Mexican Government for her choreography for the Ballet Folklorico of Mexico? (+2, -0.5)
- a. Sonal Mansingh
 - b. Shovana Narayan
 - c. Mrinalini Sarabhai
 - d. Rukmani Arundale

79. Padma Bhushan awardee Vikku Vinayakaram is a _____ player. (+2, -0.5)

- a. Pakhawaj
- b. Dholak
- c. Tabla
- d. Ghatam

80. Who among the following won Arjuna Award 2021 in athletics discipline? (+2, -0.5)

- a. Satish Kumar
- b. Arpinder Singh
- c. Lakha Singh
- d. G S Sandhu

81. Which water body is the world's third largest ocean spread over an area of 70,560,000 km² on the earth's surface? (+2, -0.5)

- a. Atlantic Ocean
- b. Pacific Ocean
- c. Southern Ocean
- d. Indian Ocean

82. Microfinance Institutions Network (MFIN) and Sa-Dhan along with FIDC (Finance Industry Development Council) have jointly launched the (+2, -0.5)

_____ for the micro credit industry in the year 2019.

- a. Industry Codes and Principles
 - b. Code for Responsible Lending
 - c. Micro Finance Code
 - d. Code for Micro Lending
-

83. Ustad Zakir Hussain is the son of _____, an Indian tabla player. (+2, -0.5)

- a. Amjad Ali Khan
 - b. Imrat Khan
 - c. Fayaz Khan
 - d. Ustad Alla Rakha
-

84. Malaria is a deadly disease caused by parasites that are transmitted to people through the bite of _____. (+2, -0.5)

- a. Anopheles mosquito
 - b. Culex mosquito
 - c. Aedes mosquito
 - d. fleas
-

85. Who won Major Dhyan Chand Khel Ratna Award 2021 in football? (+2, -0.5)

- a. Gurpreet Singh Sandhu

- b. Subrata Pal
 - c. Bhaichung Bhutia
 - d. Sunil Chhetri
-

86. Which ministry launched the 'Start-up India Seed Fund Scheme? (+2, -0.5)

- a. Ministry of Commerce and Industry
 - b. Ministry of Finance
 - c. Ministry of Skill Development and Entrepreneurship
 - d. Ministry of Textiles
-

87. Death Valley is a desert valley in the _____ that is the hottest and driest place with a world record highest air temperature of 134°F. (+2, -0.5)

- a. Mojave Desert of California
 - b. Atacama Desert of Chile
 - c. Lut Desert of Iran
 - d. Sahara Desert of Africa
-

88. Lakshmi Shankar was a Hindustani classical vocalist of the _____ Gharana. (+2, -0.5)

- a. Gwalior
- b. Rangeela

- c. Kirana
 - d. Patiala
-

89. Whose autobiography is titled 'An Unsuitable Boy'? (+2, -0.5)

- a. Sanjay Leela Bhansali
 - b. Aditya Chopra
 - c. Karan Johar
 - d. Vikram Bhatt
-

90. Who among the following Indian classical musicians was known as 'The Queen of Thumri', who was bestowed the Padma Vibhushan in 2016 for her contribution to music? (+2, -0.5)

- a. Girija Devi
 - b. Shubha Mudgal
 - c. Gayatri Sankaran
 - d. Rita Dev
-

91. Who among the following is the author of the book 'Narcopolis'? (+2, -0.5)

- a. Jeet Thayil
- b. Shashi Tharoor
- c. David Davidar

d. Anees Salim

92. Name a common ingredient made from the starchy part of corn kernels used as a thickening agent for gravies, marinades, sauces, soups and casseroles. (+2, -0.5)

- a. Corn starch
 - b. Gelatine
 - c. Potato starch
 - d. Pectin
-

93. The first linguistic state in India got established in: (+2, -0.5)

- a. 1957
 - b. 1951
 - c. 1952
 - d. 1953
-

94. Held in the month of _____, the Ellora Ajanta Dance Festival is an interface between the culture and history of India. (+2, -0.5)

- a. April
- b. February
- c. January
- d. March

95. What disease in adults means 'soft bones' that usually develops due to a deficiency of vitamin D (often from not getting enough sunlight), or less often, digestive or kidney disease? (+2, -0.5)

- a. Osteopenia
- b. Osteomyelitis
- c. Osteomalacia
- d. Osteoporosis

96. Bala Saraswati was a prominent exponent of which classical dance form? (+2, -0.5)

- a. Kuchipudi
- b. Bharatanatyam
- c. Odissi
- d. Mohiniyattam

97. The 7th ICC T20 World Cup Cricket was jointly organised by _____. (+2, -0.5)

- a. India and Sri Lanka
- b. India and Bangladesh
- c. UAE and Qatar
- d. UAE and Oman

98. In which of the following sports is 'Bishop' used? (+2, -0.5)

- a. Snooker
 - b. Baseball
 - c. Billiards
 - d. Chess
-

99. Padma Bhushan Kumudini Lakhia is a _____ dancer. (+2, -0.5)

- a. Kathak
 - b. Bharatanatyam
 - c. Odissi
 - d. Manipuri
-

100. Which mountain range is the source of Krishna River? (+2, -0.5)

- a. Satpura Range
- b. Sahyadri Range
- c. Vindhya Range
- d. Eastern Ghats

Answers

1. Answer: c

Explanation:

The correct answer is "Cunning"

★ Key Points

Here lets see what the given words refer to:

- **Deception** -making somebody believe or being made to believe something that is not true(कपट, धोखा)
 - **Example:** He had obtained the secret papers by *deception*.
- **Cunning** - clever in a dishonest or bad way(चतुर, शातिर)
 - Example: He was as *cunning* as a fox.

★ Additional Information

Here we will see the other words with the help of examples:

- **Cruelty** -cruel behaviour(क्रूरता, निर्दयता)
 - Example: Keeping a dog tied up outside all day and all night is animal *cruelty*.
- **Reliability** -the probability that a product, system, or service will perform its intended function adequately for a specified period of time, or will operate in a defined environment without failure(विश्वसनीयता)
 - Example: If you measure a cup of rice three times, and you get the same result each time, that result is *reliable*.
- **Exception** -a person or thing that is not included in a general statement(अपवाद)
 - Example: Everybody was poor as a student and I was no *exception*.

2. Answer: d

Explanation:

The solution is **Serious**.

★ Key Points

- The most appropriate ANTONYM of " *Frivolous* " is **Serious**.
- **Frivolous** – Not having any serious purpose or value. (कोई गंभीर उद्देश्य या मूल्य नहीं होना)
 - *For example : "Rules to stop frivolous lawsuits."*
- **Serious** – Demanding or characterized by careful consideration or application. (सावधानीपूर्वक विचार या आवेदन द्वारा मांग या विशेषता)
 - *For example : "Her face grew serious."*
- Therefore **option 4** is the correct option.

★ Additional Information

- Antonym of Popular is **unpopular**.
 - Popular – Liked or admired by many people or by a particular person or group. (कई लोगों द्वारा या किसी विशेष व्यक्ति या समूह द्वारा पसंद या प्रशंसा की गई)
 - *For example : "These cheese are very popular in USA."*
- Antonym of Reputed is **Actual**.
 - Reputed – Generally believed to exist or be something specified, but not definitely the case. (आम तौर पर माना जाता है कि मौजूद है या कुछ निर्दिष्ट है, लेकिन निश्चित रूप से ऐसा नहीं है।)
 - *For example : "A reputed budget of \$500 million."*
- Antonym of Nervous is **Calm**
 - Nervous – Easily agitated or alarmed. (आसानी से उत्तेजित या चिंतित।)
 - *For example : "Riya was very nervous about her interview."*

3. Answer: b

Explanation:

The solution is **Do not exasperate Harsha**.

★ Key Points

- The option that will improve the underlined part of " Don't provoke Harsha, otherwise, she will give you a slap. " is Do not exasperate Harsha.
- Do not exasperate Harsha , otherwise, she will give you a slap.
- Here the word **provoke** and **exasperate** defines **irritate and frustrate someone intensely**.
 - For example : " A teacher can provoke you into working hard."
- As both the options have similar meaning.
- Therefore, **option 2** is the correct option.

★ Additional Information

- Let's discuss information about other options:
 - **Vacillate** – Waver between different opinions or actions or be indecisive.
 - For example : "I vacillate between teaching and acting."
 - **Hesitate** – Pause in indecision before saying or doing something.
 - For example : "He hesitated to give me a ride home."
 - **Equivocate** – U se ambiguous language so as to conceal the truth or avoid committing oneself.
 - For example : "The government have equivocated too often in the past."

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4. Answer: d

Explanation:

The correct answer is **extend** .

★ Key Points

- The most appropriate option to fill in the blank in " We're asking them to _____ the deadline ." is extend,
- We're asking them to extend the deadline.
- **Extend** – Cause to cover a wider area; make larger. (एक व्यापक क्षेत्र को कवर करने का कारण; बड़ा करना।)

- For example : "The garden has been extended."
- Therefore **option 4** is the correct option.

★ Additional Information

- Let's discuss information about other options:
 - **Increase** – Become or make greater in size, amount, or degree. (आकार, राशि या डिग्री में बढ़ा होना या बनाना।)
 - For example : "They are aiming to increase awareness of social issues."
 - **Enlarge** – Make or become larger or more extensive. (बड़ा या अधिक व्यापक बनाना या बनना)
 - For example : "They have renovated and enlarged the four-storey building."
 - **Broaden** – Become larger in distance from side to side or widen. (अगल-बगल से दूरी में बढ़ा हो या चौड़ा हो।)
 - For example : "Her smile broadened after seeing her mom."

5. Answer: d

Explanation:

The correct answer is ' **Breach** '.

★ Key Points

- The most appropriate word **antonym** of the given word ' **warrant** ' is ' **breach** '.
- **Warrant** : an official written statement that gives somebody permission to do something. [(किसी काम को करने की) आधिकारिक अनुमति; वॉरंट, अधिपत्र, आज्ञापत्र]
 - Example: a search **warrant** [a document that allows the police to search a house]...
- **Breach** : an act that breaks an agreement, a law, etc. (नियम, समझौते की शर्तों आदि का उल्लंघन; नियम-भंग)
 - Example: a **breach** of confidence...

Correct Answer:Breach.

★ Additional Information

- Let's look at the meaning of other words:
 - **triumph** : a great success or victory; the feeling of happiness that you have because of this. (महान सफलता या विजय; सफलता या विजय का उल्लास)
 - **support** : to help somebody by saying that you agree with him/her/it, and sometimes giving practical help such as money. [किसी को (सहमति के आधार पर) समर्थन देना या किसी की (धन देकर) सहायता करना]
 - **captivate** : to attract and hold somebody's attention. (किसी का ध्यान आकृष्ट रखना; मोहित कर देना)

6. Answer: a

Explanation:

The solution is **When Reema saw her mother, she was in ecstasy.**

★ Key Points

- The sentence which has no spelling error is " When Reema saw her mother, she was in ecstasy."
- Here in this sentence there is no spelling mistake and grammatically correct.
- The word **ecstasy** is defined as *an overwhelming feeling of great happiness or joyful excitement*.
 - For example : "There was a look of ecstasy on her face."
- Therefore **option 1** is the correct option.

★ Additional Information

- Let's discuss information about other options:
 - In the second option the sentence contains a spelling mistake **acstasy**, the correct spelling is **ecstasy**.
 - In the third option the sentence contains a spelling mistake **ektasy**, the correct spelling is **ecstasy**.
 - In the fourth option the sentence contains a spelling mistake **extasy**, the correct spelling is **ecstasy**.

7. Answer: a

Explanation:

The solution is **Philanthropist**.

★ Key Points

- The option that can be used as a one-word substitute for "One who makes an active effort to promote human welfare." is Philanthropist.
- Philanthropist – A person who seeks to promote the welfare of others, especially by the generous donation of money to good causes.
- *For example : "The trust was founded by an American philanthropist."*
- Therefore **option 1** is the correct option.

★ Additional Information

- Let's discuss information about other options :
- **Philosopher** – A person engaged or learned in philosophy, especially as an academic discipline.
 - *For example : "Sam was a philosopher."*
- **Philanderer** – A man who readily or frequently enters into casual sexual relationships with women; a womanizer.
 - *For example : "She was known as a philanderer."*
- **Physicist** – An expert in or student of physics.
 - *For example : "Ram choose to become a physicist."*

8. Answer: d

Explanation:

The solution is A new batch of officers is being trained by me.

★ Key Points

- The option that expresses the " *I am training a new batch of officers now.* " in passive voice is
- Passive voice – If the subject is having the action done to it, then the verb is called *passive voice*.
- **Active voice** : *I am training a new batch of officers now.*
- **Passive voice** : *A new batch of officers is being trained by me.*
- Therefore **option 4** is a correct option.

★ Additional Information

- Let's discuss information about voices :
 - Passive voice – If the subject is having the action done to it, then the verb is called *passive voice*.
 - Active voice – If the subject is performing the action, then the verb is called *active voice*.
 - *For example: Active voice – Aditi cut a tree. Passive voice – A tree was cut by aditi.*

9. Answer: a

Explanation:

The solution is **We have been waiting.**

★ Key Points

- The most appropriate option that can substitute the underlined segment in "We are waiting for the minister for the last two hours." is **We have been waiting.**
- We are waiting for the minister for the last two hours.
- Here the tense of underlined word is incorrect.
- The given sentence tense is **Present continuous tense**.
- The tense of the sentence should be **Present perfect continuous tense** .
 - **Present continuous tense** – It is a present continuous tense when the verb form used for action or event that are happening or developing now in present.

- **Present perfect continuous tense** – It is a present perfect continuous tense when starting in the past and occurring until now with an adverb modifier that indicates the approximate duration or an action occurring until lately or recently with some relevant effect continuing into the present.
- Therefore **option 1** is the correct option.

★ Additional Information

The 12 Verb Tenses

	Past	Present	Future
Simple	I ate pizza yesterday. S + V₂ + O	I eat pizza everyday. S + V₁ + O	I will eat pizza tomorrow. S + 'will' + V + O
Continuous	I was eating pizza when you arrived. S + 'was/were' + (V+ing) + O	I am eating pizza right now. S + 'am/is/are' + (V+ing) + O	I will be eating pizza when you arrive. S + 'will be' + (V+ing) + O
Perfect	I had eaten all of the pizza when you arrived. S + 'had' + V₃ + O	I have eaten all of the pizza. S + 'have/has' + V₃ + O	I will have eaten all of the pizza by the time you arrive. S + 'will have' + V₃ + O
Perfect Continuous	I had been eating pizza for 2 hours when you arrived. S + 'had been' + (V+ing) + O	I have been eating pizza for 2 hours. S + 'have/has been' + (V+ing) + O	I will have been eating pizza for 2 hours when you arrive. S + 'will have been' + (V+ing) + O

Legend: S = Subject O = Object V = Verb (V₁ = present / V₂ = past / V₃ = past participle)

10. Answer: b

Explanation:

The solution is **Students are loved by their teachers.**

★ Key Points

- The option that expresses the " *Teachers love their students.* " in passive voice is

- **Passive voice** – If the subject is having the action done to it, then the verb is called *passive voice*.
- Therefore **option 2** is the correct option.

★ Additional Information

- Let's discuss information about voices :
 - **Passive voice** – If the subject is having the action done to it, then the verb is called *passive voice*.
 - **Active voice** – If the subject is performing the action, then the verb is called *active voice*.
 - For example: **Active voice** – Aditi cut a tree. **Passive voice** – A tree was cut by aditi.

11. Answer: c

Explanation:

The solution is **Benevolent**.

★ Key Points

- The most appropriate synonym of " *Benign* " is Benevolent.
- **Benevolent** – Well meaning and kindly.
 - For example : "A benevolent smile."
- **Benign** – Gentle and kindly.
 - For example : "Her face was calm and benign."
- Therefore **option 3** is the correct option.

★ Additional Information

- Let's discuss information about other options :
 - **Beneficiary** – A person who derives advantage from something, especially a trust, will, or life insurance policy.
 - For example : "They took the beneficiary of his father after he died."
 - **Boisterous** – Noisy, energetic, and cheerful.

- *For example : "A group of boisterous girls."*
 - **Boring** – Not interesting or tedious.
 - *For example : "He has got a boring job in an office."*
-

12. Answer: a

Explanation:

The solution is **to be more difficult**.

★ Key Points

- The option that will improve the underlined part of "I find playing chess to be difficult than playing poker." is **to be more difficult**.
- I find playing chess **to be more difficult** than playing poker.
- Here the word "**more**" is added to the sentence because here the game chess is compared with poker.
- Hence, to show the difficulty level of playing the game we used **more**.
- Therefore **option 1** is the correct option.

★ Additional Information

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Comparatives & Superlatives

e.g.	big	→	bigger	→	the biggest
	fat	→	fatter	→	the fattest

- | | | | | | |
|---|--------|---|----------|---|---------------|
| 1 | hot | → | hotter | → | the hottest |
| 2 | cold | → | colder | → | the coldest |
| 3 | wet | → | wetter | → | the wettest |
| 4 | heavy | → | heavier | → | the heaviest |
| 5 | warm | → | warmer | → | the warmest |
| 6 | hungry | → | hungrier | → | the hungriest |

13. Answer: c

Explanation:

The correct answer is 'Not wearing any clothes'.

★ Key Points

- The most appropriate meaning of the given idiom 'In your birthday suit' is 'Not wearing any clothes'.
- If you are in your birthday suit, you are not wearing any clothes.
- **In your birthday suit:** not wearing any clothes. (कोई कपड़े नहीं पहने हुए)
 - Example: They were sunbathing *in their birthday suits*.

Correct Answer: Not wearing any clothes.

14. Answer: b

Explanation:

The correct answer is " **Bibliophile** ".

★ Key Points

- The appropriate answer which means " **a person who loves and collects books** " is " **Bibliophile** ".
- A **bibliophile** is a **person who loves books and has deep knowledge about them** .
 - **Example** :*Dane has his personal library. He is a **bibliophile** .*
- Therefore, this proves that the correct answer is **Option 2** .

★ Additional Information

- **Booker** – a person who hires performance companies.
 - **Example**:*We can ask that **booker** to know about today's performances.*
- **Bookworm** – a person who loves reading books.
 - **Example** :*Gina always tops the class because she is a **bookworm** .*
- **Biographer** – a person who writes about another's life.
 - **Example**:*Isa will become a **biographer** if she writes about the President's life.*

15. Answer: a

Explanation:

The correct answer is " **to try to force someone to do something** ".

★ Key Points

- The appropriate option which means " **to twist the player's arm** " is " **to try to force someone to do something** ".

- "Twist someone's arm" means to **persuade a person to do an action that they do not want to do**.
 - **Example:** *Jake's mother **twisted his arm** by asking him to clean his room.*
- Therefore, the correct answer is Option 1.

★ Additional Information

- Let's see some other idioms with "twist".

Idiom	Meaning	Example
drive (someone) around the twist	make someone crazy	<i>Tim drove me around the twist with his tantrums.</i>
be bitter and twisted	be miserable	<i>My brother is bitter and twisted because he was dismissed from his job.</i>
twist the knife	deliberately making the situation worst	<i>Jane twisted the knife by beating her crying sister.</i>

16. Answer: d

Explanation:

The correct answer is " **All the options available need to be evaluated by me by the end of this month** ".

★ Key Points

- Let's look into the sentence " **I need to evaluate all the options available by the end of this month** ".
- Here, " **by the end of the month** " is the **adjunct** . Let us keep it aside for some time.
- The **remaining part** of the sentence is " **I need to evaluate all the options available** ".
- This is in the format " **Subject – Predicate – Object** ".

- In order to change it to the **passive** form, we need to interchange it as " **Object - Predicate - Subject** ",
- Therefore, the **passive** form of " **I need to evaluate all the options available** " is " **All the options available need to be evaluated by me** ".
- If we add the **adjunct** with this sentence, the appropriate answer is " **All the options available need to be evaluated by me by the end of this month** ".

★ Additional Information

- Let's see the basic difference between **active** and **passive voice**.

Active Voice	Passive Voice
Talks about what the person or thing did .	Talks about what happened to someone or something .
The subject is the doer of the action and the object is the sufferer of the action.	The subject is being acted upon .
Example: <i>Jeff speaks English.</i>	Example: <i>English was spoken by Jeff.</i>

17. Answer: a

Explanation:

The correct answer is " **Tolerant** ".

★ Key Points

- A **fanatic** means a **person whose enthusiasm for something is beyond normal**.
 - Example: *Joey was a **fanatic** when it was to food.*
- **Tolerant** means a person with a **lot of patience** .
 - Example: *Nathan becomes **tolerant** when he is experimenting .*
- Therefore, the antonym of "Fanatic" is "Tolerant".

★ Additional Information

- **Extremist** – the state of being extreme.
 - **Example:** *Harry looks like an **extremist** because of his decision.*
 - **Lunatic** – a person who has lost his mental stability.
 - **Example:** *Losing his loved ones made Lee a **lunatic**.*
 - **Fantastic** – Very good.
 - **Example:** *You will look **fantastic** in this attire.*
-

18. Answer: a

Explanation:

The correct answer is " **Occasion** ".

★ Key Points

- The **correct** spelling of the word is " **Occasion** ".
- **Occasion** means a **special event** .
 - **Example:** *The family were colour-coordinated for the **occasion** .*
- Therefore, the appropriate answer is "Occasion".

★ Additional Information

- **Humorous** – funny
 - **Example:** *The show was **humorous** .*
 - **Mysterious** – suspicious
 - **Example:** *The man over there looks **mysterious** .*
 - **Scissors** – a tool that helps to cut things, mostly paper.
 - **Example:** *Open this parcel using **scissors** .*
-

19. Answer: d

Explanation:

The correct answer is " **to reject** ".

★ Key Points

- The appropriate meaning of " **Cast aside** " is " **to reject** ".
- **Cast aside**: get rid of someone or something.
 - **Example:** Mary **cast aside** her neighbours by rising the fence.
- Therefore, the correct answer is Option 4.

★ Additional Information

- Let's see some idioms starting with " **all** ".

Idioms	Meaning	Example
All bark and no bite	when a person is threatening but does not fight.	The new Principal is all bark and no bite .
All Greek to me	incomprehensible	This Math problem is all Greek to me .
All in the same boat	Everyone faces the same problem	During the COVID time, all were in the same boat .

20. Answer: b

Explanation:

The correct answer is " **BACD** ".

★ Key Points

- The given passage is about **social media's influence on people** .
- **Social media** is about **uploading** photos, so " **B** " will come as its **first** sentence.
- Next, the **type of posts** should be discussed and " **A** " is the next sentence.
- " **C** " is the next sentence as it contains the matter of the text, that is the **influence of social media on people**.
- " **D** " is the final sentence as it gives a **conclusion** . Moreover, the word " **Therefore** " also gives a **hint** that it will be the **last sentence** of the stanza.

★ Additional Information

- Certain **rules** must be followed to **arrange sentences** in order to frame a **meaningful stanza** .
- The first step is to **read all the sentences** and understand their meaning.
- Next, try to find the **theme** of the stanza.
- There will be a **link between each sentence** . Try to identify them.
- **Connecting words** like "although", "therefore", etc will help in ordering them.
- Understanding the **opening sentence and closing sentence** will make this process easier.

21. Answer: a

Explanation:

The correct answer is " **drinking** ".

★ Key Points

- **Drinking** means the **act of consuming liquids** .
 - **Example:** *Rina is **drinking** fruit juice.*
- As drinking water is **pure** and is **decreasing** constantly, it cannot be used to clean cars.
- Therefore, the appropriate answer is "Drinking".

★ Additional Information

- **Sewage** - drainage
 - **Example:** *The **sewage** water is overflowing.*
- **Stored** - saved
 - **Example :** *Let's have the **stored** food.*
- **Cold** - chill
 - **Example:** *The weather is **cold** today.*

22. Answer: c

Explanation:

The correct answer is " **wastage** ".

★ Key Points

- **Wastage** means **loss by using it carelessly**.
 - **Example:** *The food **wastage** after the party was huge.*
- Therefore, the appropriate answer is "wastage".

★ Additional Information

- **Extraction** – the act of pulling out quickly.
 - **Example:** *The tooth **extraction** was over quickly.*
- **Greed** – selfish desire.
 - **Example:** *Tom is always **greedy** for chocolates.*
- **Storage** – saving things for the future.
 - **Example:** *This food **storage** will help us ration food.*

23. Answer: d

Explanation:

The correct answer is " **judiciously** ".

★ Key Points

- " **Judiciously** " means **performing an action wisely and carefully** .
 - **Example:** *The judge **judiciously** solved the case.*
- Therefore, the appropriate option is "judiciously".

★ Additional Information

- **Effectively** – usefully.

- **Example:** *My teacher advised me **effectively**.*
 - **Hopefully** – want something to be true.
 - **Example:** *Amy thinks that she would win the prize **hopefully**.*
 - **Carelessly** – without any care.
 - **Example:** *Tony lost his stationary **carelessly**.*
-

24. Answer: c

Explanation:

The correct answer is " **Contribution** ".

★ Key Points

- " **Contribution** " means to **give according to the person's ability** .
 - **Example :** *The pasta is my **contribution** to the food fest.*
- Therefore, the appropriate answer is "Contribution".

★ Additional Information

- **Summation** – the act of briefing an incident.
 - **Example:** *The **summation** of the previous meeting was very clear.*
 - **Indication** – a signal.
 - **Example:** *The cloudy sky is an **indication** of rain.*
 - **Connection** – an association between two or more people or objects.
 - **Example:** *The electric **connection** is not proper.*
-

25. Answer: a

Explanation:

The correct answer is " **Responsibility** ".

★ Key Points

- " **Responsibility** " means the duty of being answerable.
 - **Example:** *Harry's **responsibility** was to make sure that the costumes were good.*
- Therefore, the appropriate answer is "responsibility".

★ Additional Information

- **Facility** – amenities
 - **Example:** *This apartment has all the required **facilities** .*
- **Complexity** – difficulty
 - **Example:** *The **complexity** of the exam was high.*
- **Opportunity** – a chance
 - **Example :** *Gaby got an **opportunity** to play for the state.*

26. Answer: a

Explanation:

The pattern followed here is:

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

In the above code, letters are given their positional value in increasing order, (addition of 1 for very next number.)

'PENCIL' is written as '1771771418'

$$\begin{array}{cccccc}
 16 & 5 & 14 & 3 & 9 & 12 \\
 P & E & N & C & I & L \\
 \downarrow +1 & \downarrow +2 & \downarrow +3 & \downarrow +4 & \downarrow +5 & \downarrow +6 \\
 17 & 7 & 17 & 7 & 14 & 18
 \end{array}$$

And,

'ERASER' is written as '6204231024'

$$\begin{array}{cccccc}
 5 & 18 & 1 & 19 & 5 & 18 \\
 E & R & A & S & E & R \\
 \downarrow +1 & \downarrow +2 & \downarrow +3 & \downarrow +4 & \downarrow +5 & \downarrow +6 \\
 6 & 20 & 4 & 23 & 10 & 24
 \end{array}$$

Similarly,

'SHARPER'

$$\begin{array}{cccccccc}
 19 & 8 & 1 & 18 & 16 & 14 & 5 & 18 \\
 S & H & A & R & P & N & E & R \\
 \downarrow +1 & \downarrow +2 & \downarrow +3 & \downarrow +4 & \downarrow +5 & \downarrow +6 & \downarrow +7 & \downarrow +8 \\
 20 & 10 & 4 & 22 & 21 & 20 & 12 & 26
 \end{array}$$

The code for 'SHARPER' is '201042221201226'.

Hence, the correct answer is **option(1)**

27. Answer: c

Explanation:

Here, we need to apply the combination of signs to get the correct equation.

Given: $14 * 18 * 7 * 79 * 33$

First we will check options one by one as below:

1) $+, \times, =, -$

$$\Rightarrow 14 + \underline{18 \times 7} = 79 - 33$$

Applying BODMAS rule, we will get,

$$\Rightarrow \underline{14 + 126} = 79 - 33$$

$\Rightarrow 140 \neq 46$, which is not possible. This is not true.

2) $+, -, =, \times$

$$\Rightarrow 14 + 18 - 7 = \underline{79 \times 33}$$

Applying BODMAS rule, we will get,

$$\Rightarrow \underline{14 + 18} - 7 = 2607$$

$\Rightarrow 25 \neq 2607$, which is not possible. This is not true.

3) $=, \times, -, -$

$$\Rightarrow 14 = \underline{18 \times 7} - 79 - 33$$

Applying BODMAS rule, we will get,

$$\Rightarrow 14 = \underline{126 - 79 - 33}$$

$\Rightarrow 14 = 14$, which is possible. This is true.

4) $-, =, \times, +$

$$\Rightarrow 14 - 18 = \underline{7 \times 79} + 33$$

Applying BODMAS rule, we will get,

$$\Rightarrow 14 - 18 = \underline{553 + 33}$$

$\Rightarrow -4 \neq 586$, which is not possible. This is not true.

Hence, the combination of signs ' $=, \times, -, -$ ' is used to get correct balanced equation.

28. Answer: b

Explanation:

Here the given logic is:

$$9 \div 2 = 4.5 + .5 = 5 \Rightarrow 5^3 = 125$$

$$11 \div 2 = 5.5 + .5 = 6 \Rightarrow 6^3 = \underline{216}$$

$$13 \div 2 = 6.5 + .5 = 7 \Rightarrow 7^3 = 343$$

$$7 \div 2 = 3.5 + .5 = 4 \Rightarrow 4^3 = 64$$

As per the given logic, the **correct answer is option 2**, as 11 : 49 do not follow the pattern that other options do.

29. Answer: a

Explanation:

Here, we will look at the code

(I) know you $\longrightarrow$ (Ha) Hi He
 (I) like French $\longrightarrow$ Ho Hu (Ha)

'I' = 'Ha'

I like French $\longrightarrow$ Ho Hu Ha
 you like me $\longrightarrow$ He Ho Haa

'like' = 'Ho'

I know you → Ha Hi He
you like me → He Ho Haa

'you' = 'He'

Therefore, from "you like me" written as "He, Ho, Haa

you = He

like = Ho

me = Haa

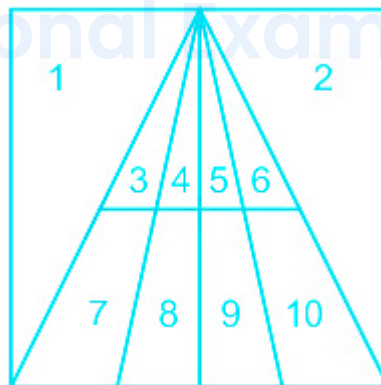
Hence, the correct answer is **option(1)**

30. **Answer: d**

Explanation:

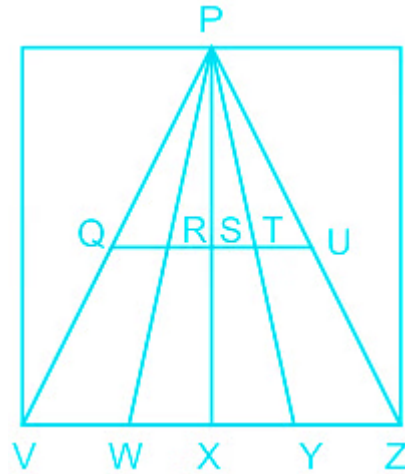
Here, we need to count total number of triangle.

First we will count all the small triangles as:



So, we have 10 triangles.

Next, we will combine two or more triangles, we will have,



So, triangles we have are: PQS, PQT, PQU, PRT, PRU, PSU, PVX, PVY, PVZ, PWY, PWZ, PXZ – total of 12 triangles.

Thus, we have a total of $10 + 12 = 22$ triangles.

Hence, we have 22 triangles.

31. Answer: d

Explanation:

The logic followed here is:

Logic: The sum of second and third number – 8) is equal to first number .

$$\text{First pair} = 19 + 14 - 8 = 33 - 8 = 25$$

$$\text{Second pair} = 28 + 30 - 8 = 58 - 8 = 50$$

Option1) (41, 24, 36)

$$= 24 + 36 - 8 = 52 (\text{not equal to first number})$$

Option2) (31, 20, 25)

$$= 20 + 25 - 8 = 37 (\text{not equal to first number})$$

Option3) (24, 17, 21)

$$= 17 + 21 - 8 = 30 \text{ (not equal to first number)}$$

$$\text{Option 4) } = (35, 22, 21)$$

$$= 22 + 21 - 8 = 35 \text{ (equal to first number)}$$

Therefore, the **correct pair** is **(35, 22, 21)**

Hence, the correct answer is **option(4)**

32. Answer: d

Explanation:

Here, we need to apply the combination of signs to get the correct equation.

Given: $60 * 6 * 3 * 18 * 49 * 5$

First we will check options one by one as below:

$$1) \times, +, \div, -, =$$

$$\Rightarrow 60 \times 6 + \underline{3 \div 18} - 49 = 5$$

Applying BODMAS rule, we will get,

$$\Rightarrow \underline{60 \times 6} + 0.16 - 49 = 5$$

$$\Rightarrow \underline{360 + 0.16} - 49 = 5$$

$$\Rightarrow 311.16 \neq 5, \text{ which is not possible. This is not true.}$$

$$2) \div, +, -, \times, =$$

$$\Rightarrow \underline{60 \div 6} + 3 - 18 \times 49 = 5$$

Applying BODMAS rule, we will get,

$$\Rightarrow 10 + 3 - \underline{18 \times 49} = 5$$

$$\Rightarrow \underline{10 + 3} - 882 = 5$$

$\Rightarrow -869 \neq 5$, which is not possible. This is not true.

3) $\times, +, -, \div, =$

$$\Rightarrow 60 \times 6 + 3 - \underline{18 \div 49} = 5$$

Applying BODMAS rule, we will get,

$$\Rightarrow \underline{60 \times 6} + 3 - 0.36 = 5$$

$$\Rightarrow \underline{360 + 3} - 0.36 = 5$$

$\Rightarrow 362.64 \neq 5$, which is not possible. This is not true.

4) $\div, -, \times, +, =$

$$\Rightarrow \underline{60 \div 6} - 3 \times 18 + 49 = 5$$

Applying BODMAS rule, we will get,

$$\Rightarrow 10 - \underline{3 \times 18} + 49 = 5$$

$$\Rightarrow \underline{10} - 54 + \underline{49} = 5$$

$\Rightarrow 5 = 5$, which is possible. This is true.

Hence, the combination of signs ' $\div, -, \times, +, =$ ' is used to get correct balanced equation.

33. Answer: d

Explanation:

The logic followed here is:

$$(\text{First number} \times 3) - (\text{Second number} \times 4) = \text{Third number}$$

$$\text{First row} - 67, 25, 101 \rightarrow (67 \times 3) - (25 \times 4) = 201 - 100 = 101$$

Second row - 55, 17, 97 $\rightarrow (55 \times 3) - (17 \times 4) = 165 - 68 = 97$

Similarly,

Third row - 45, 19, ? $\rightarrow (45 \times 3) - (19 \times 4) = 135 - 76 = 59$

Hence, **option 4)** is the correct answer.

34. Answer: a

Explanation:

Here, we will first check all the options one by one

Given equation :- J _ M K L J J _ K L J J _ K L _ J P _ L

Option(1) J N O J K

J J M K L / J J N K L / J J O K L / J J P K L

Option(2) J N J K O

J J M K L / J J N K L / J J J K L / K J P O L

Option (3) N J K J O

J N M K L / J J J K L / J J K K L / J J P O L

Option(4) N J J O K

J N M K L / J J J K L / J J J K L / O J P K L

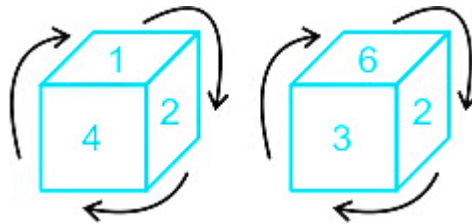
Only option(1) shows the repetition of the series. The middle letter is the next of it in the English Alphabets, while J J and K L is common in all.

Therefore, the correct answer is **J N O J K**

35. Answer: b

Explanation:

When a common digit is on the same face of the same dices, then the digits written after the common digit is opposite to each other .(in the same direction)



Therefore, 1 is opposite to 6

4 is opposite to 3

2 is opposite to 5 (left one)

So, the sum of 2 and 5 is 7

Hence, the correct answer is **option(2)**

36. Answer: a

Explanation:

Here, we need to apply the combination of signs to get the correct equation.

Given: $16 * 2 * 4 * 8 * 10 * 30$

First we will check options one by one as below:

1) $\div, \times, +, -, =$

$$\Rightarrow \underline{16 \div 2} \times 4 + 8 - 10 = 30$$

Applying BODMAS rule, we will get,

$$\Rightarrow \underline{8 \times 4} + 8 - 10 = 30$$

$$\Rightarrow \underline{32 + 8} - 10 = 30$$

$\Rightarrow 30 = 30$, which is possible. This is true.

2) $\div, \times, -, +, =$

$$\Rightarrow \underline{16 \div 2} \times 4 - 8 + 10 = 30$$

Applying BODMAS rule, we will get,

$$\Rightarrow \underline{8 \times 4} - 8 + 10 = 30$$

$$\Rightarrow \underline{32} - \underline{8 + 10} = 30$$

$\Rightarrow 34 \neq 30$, which is not possible. This is not true.

3) $\times, \div, -, +, =$

$$\Rightarrow 16 \times \underline{2 \div 4} - 8 + 10 = 30$$

Applying BODMAS rule, we will get,

$$\Rightarrow \underline{16 \times 0.5} - 8 + 10 = 30$$

$$\Rightarrow \underline{8} - \underline{8 + 10} = 30$$

$\Rightarrow 10 \neq 30$, which is not possible. This is not true.

4) $-, +, \times, \div, =$

$$\Rightarrow 16 - 2 + 4 \times \underline{8 \div 10} = 30$$

Applying BODMAS rule, we will get,

$$\Rightarrow 16 - 2 + \underline{4 \times 0.8} = 30$$

$$\Rightarrow \underline{16} - \underline{2 + 3.2} = 30$$

$\Rightarrow 17.2 \neq 30$, which is not possible. This is not true.

Hence, the combination of signs ' $\div, \times, +, -, =$ ' is used to get correct balanced equation.

37. Answer: b

Explanation:

When a mirror is placed vertically to the object, the image so formed will be laterally inverted. In other words, the **Left Hand Side** and **Right Hand Side** interchange their positions while top and bottom will remain same.



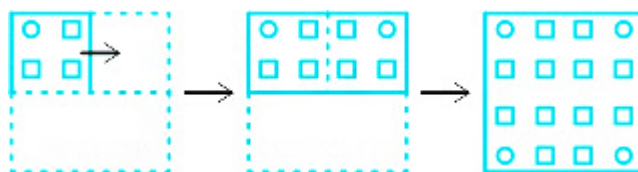
Therefore, only option(2) shows the correct image.

Hence, the correct answer is **option(2)**.

38. Answer: c

Explanation:

The pattern followed here is:



From the above figure, only option(3) shows the correct answer

Hence, the correct answer is **option(3)**

39. Answer: d

Explanation:

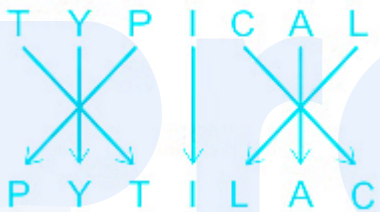
Following logic is followed here,

REMOVAL : MEROLAV



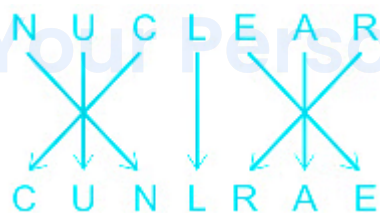
And,

TYPICAL : PYTILAC



Similarly,

NUCLEAR : ?



Hence, the correct answer is **option(4)**

40. Answer: d

Explanation:

By using BODMAS

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

and going by the options

Given Equation :- $57 * 35 * 7 * 14 * 2 * 71$

Interchanging * with given signs.

Option(1) $\times, +, \div, -, =$

$$\Rightarrow 57 \times 35 + \underline{7 \div 14} - 2 = 71$$

$$\Rightarrow \underline{57 \times 35} + 0.5 - 2 = 71$$

$$\Rightarrow \underline{1995 + 0.5} - 2 = 71$$

$$\Rightarrow \underline{1995.5 - 2} = 71$$

$$\Rightarrow 1993.5 \neq 71$$

LHS $\neq$ RHS

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

$$\Rightarrow 57 - \underline{35 \div 7} + 14 \times 2 = 71$$

$$\Rightarrow 57 - 5 + \underline{14 \times 2} = 71$$

$$\Rightarrow \underline{57 - 5} + \underline{28} = 71$$

$$\Rightarrow \underline{85 - 5} = 71$$

$$\Rightarrow 80 \neq 71$$

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

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

$$\Rightarrow 57 + \underline{35 \div 7} - 14 \times 2 = 71$$

$$\Rightarrow 57 + 5 - \underline{14 \times 2} = 71$$

$$\Rightarrow \underline{57 + 5} - 28 = 71$$

$$\Rightarrow \underline{62 - 28} = 71$$

$$\Rightarrow 34 \neq 71$$

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

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

$$\Rightarrow 57 - 35 + 7 \times \underline{14 \div 2} = 71$$

$$\Rightarrow 57 - 35 + \underline{7 \times 7} = 71$$

$$\Rightarrow \underline{57 - 35} + \underline{49} = 71$$

$$\Rightarrow \underline{106 - 35} = 71$$

$$\Rightarrow 71 = 71$$

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

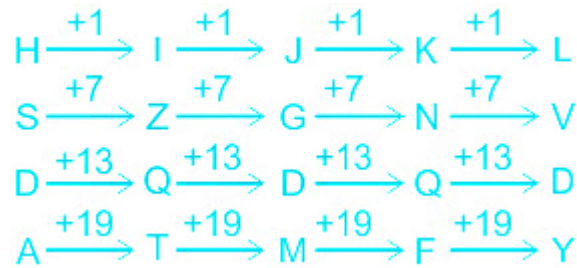
Hence, the correct answer **option(4)**

41. Answer: b

Explanation:

Given series :-

Here, First letter is the very next letter of the previous code, second letter is addition of 7 letters, third letter is addition of 13 letters and fourth letter is addition of 19 letters.



Therefore, '?' will be replaced by 'JGDM'

Hence, the correct answer is **option(2)**

42. Answer: d

Explanation:

Following logic is followed here,

Logic: Second number = $\sqrt{\text{first number} - 3}$

Option(1)

Second number = $\sqrt{169 - 3} = 13 - 3 = 10$

Option(2)

Second number = $\sqrt{196 - 3} = 14 - 3 = 11$

Option(3)

Second number = $\sqrt{64 - 3} = 8 - 3 = 5$

Option(4)

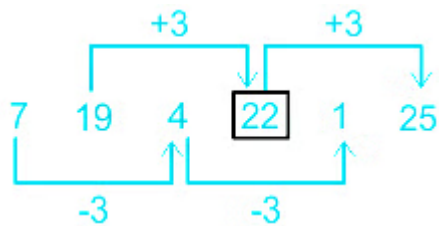
Second number = $\sqrt{36 - 3} = 6 - 3 = 3$ (not equal to 2)

Hence, the correct answer is **option(4)**

43. Answer: b

Explanation:

Following logic is used in the above question,



Therefore, '?' will be replaced by 22.

Hence, the correct is option(2)

44. Answer: a

Explanation:

The pattern followed here is:

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 is as follows

'GREEN' is written as 'HTHIS'

$$\begin{array}{lcl} \text{G (7)} & \xrightarrow{+1} & \text{H (8)} \\ \text{R (18)} & \xrightarrow{+2} & \text{T (20)} \\ \text{E (5)} & \xrightarrow{+3} & \text{H (8)} \\ \text{E (5)} & \xrightarrow{+4} & \text{I (9)} \\ \text{N (14)} & \xrightarrow{+5} & \text{S (19)} \end{array}$$

'SAFFRON' is written as 'TCIJWUU'

$$\begin{array}{lcl} \text{S (19)} & \xrightarrow{+1} & \text{T (20)} \\ \text{A (1)} & \xrightarrow{+2} & \text{C (3)} \\ \text{F (6)} & \xrightarrow{+3} & \text{I (9)} \\ \text{F (6)} & \xrightarrow{+4} & \text{J (10)} \\ \text{R (18)} & \xrightarrow{+5} & \text{W (23)} \\ \text{O (15)} & \xrightarrow{+6} & \text{U (21)} \\ \text{N (14)} & \xrightarrow{+7} & \text{U (21)} \end{array}$$

'WHITE' be written '?'

$$\begin{array}{lcl} \text{W (23)} & \xrightarrow{+1} & \text{X (24)} \\ \text{H (8)} & \xrightarrow{+2} & \text{J (10)} \\ \text{I (9)} & \xrightarrow{+3} & \text{L (12)} \\ \text{T (20)} & \xrightarrow{+4} & \text{X (24)} \\ \text{E (5)} & \xrightarrow{+5} & \text{J (10)} \end{array}$$

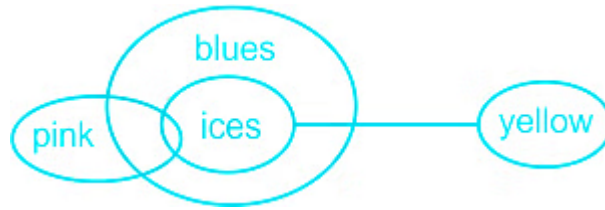
'WHITE' be written 'XJLXJ'

Hence, the correct answer is **option(1)**

45. Answer: a

Explanation:

The least possible Venn diagram is given below:



Conclusion:

I) Some yellows are blues → Does not follow → (As there is no relationship between yellow and blues mentioned in the statements. This is not true.)

II) No pink is blue → Does not follow → (As Some pinks are ices, so, some pink is blue. Therefore No pink is blue is possible but does not definitely true.)

III) No yellow is blue → Does not follow → (As there is no relationship between yellow and blue mentioned in the statements. This is not true.)

Hence, the correct answer is **"None of the conclusion follow"**.

46. Answer: b

Explanation:

In any two consecutive ordinary years, date of the next year will be one day ahead of the same date of the previous year.

1st August 2009 = Saturday

1st August 2010 = Sunday

1st August 2011 = Monday

If a leap year comes immediately after an ordinary year, then the day on a certain date of the leap year will be 2 days ahead of the same date on the ordinary year from March to December.

1st August 2012 = Wednesday

1st August 2013 = Thursday

Hence, the correct answer is **option(2)**

47. Answer: c

Explanation:

Here, we have to find out the day of the given date.

So, 15 Aug 2001 was Wednesday.

Next, we will count all the days = 16 (Aug) + 30 (Sep) + 2 (Oct) = $48 \div 7 = 6$ weeks and 6 odd days

Thus, 2 October 2001 = Wednesday + 6 = Tuesday.

Hence, the day will be 'Tuesday' on 2 October 2001.

48. Answer: b

Explanation:

When a mirror is placed vertically to the object, the mirror image so formed will be laterally inverted. In other words, the Left Hand Side and Right Hand Side interchange their positions while top and bottom will remain same.



Hence, the correct answer is **option(2)**

49. Answer: d

Explanation:

When the mirror is placed vertically to the object, then the image formed will be laterally inverted. In other words, the Left Hand Side and Right Hand Side interchange their positions while top and bottom will remain same.



Hence, the correct answer is **option (4)**

50. Answer: a

Explanation:

Following logic is applied in the above question

$$\text{Second number} = (\text{First number})^2 + 2(\text{First number})$$

13 : 195

$$\text{Second number} = (13)^2 + 2(13)$$

$$= 169 + 26$$

$$= 195$$

7 : 63

$$\text{Fourth number} = (7)^2 + 2(7)$$

$$= 49 + 14$$

$$= 63$$

18 : ?

$$\text{Sixth number} = (18)^2 + 2(18)$$

$$= 324 + 36$$

$$= 360$$

$$= ? = 360$$

Therefore, ? will be replaced by 360

Hence, the correct answer is **option(1)**

51. Answer: d

Explanation:

Formula used:

$$\sin 2\theta = 2 \sin \theta \cdot \cos \theta$$

Calculation:

It is given that θ is an acute angle, So by trigonometric ratios-

$$\sin \theta = \frac{\text{Perpendicular}}{\text{Hypotenuse}}$$

Since, $\sin \theta = \frac{12}{13}$ then on comparison,

⇒ **Hypotenuse = 13 unit and Perpendicular = 12 unit**

Now, by the Pythagorean theorem,

$$(\text{Hypotenuse})^2 = (\text{perpendicular})^2 + (\text{base})^2$$

$$\Rightarrow 13^2 = 12^2 + (\text{base})^2$$

$$\Rightarrow (\text{base})^2 = 25$$

$$\Rightarrow \text{base} = 5 \text{ unit}$$

$$\Rightarrow \cos \theta = \frac{\text{base}}{\text{hypotenuse}} = \frac{5}{13}$$

$$\Rightarrow \tan \theta = \frac{\text{perpendicular}}{\text{base}} = \frac{12}{5}$$

Substituting the values of $\sin \theta$, $\cos \theta$ and $\tan \theta$ into the expression,

$$\Rightarrow \frac{\left(\frac{12}{13}\right)^2 - \left(\frac{5}{13}\right)^2}{2 \cdot \frac{12}{13} \cdot \frac{5}{13}} \times \frac{1}{\left(\frac{12}{5}\right)^2}$$

$$\Rightarrow \frac{\frac{119}{169}}{\frac{120}{169}} \times \frac{25}{144}$$

$$\Rightarrow \frac{119 \times 25}{120 \times 144} = \frac{119 \times 5}{24 \times 144}$$

$$\Rightarrow \frac{595}{3456}$$

The value of the expression is $\frac{595}{3456}$

52. Answer: a

Explanation:

Concept used:-

Properties of exponents and powers = $a^2 - b^2 = (a + b)(a - b)$

Calculation:-

Using the exponent property $\frac{a^n}{a^m} = a^{n-m}$ in the given expression,

$$\Rightarrow 2^2 (x)^{(a-b)(a+b)} \times 3^2 (x)^{(b-c)(b+c)} \times 6^{-2} (x)^{(c-a)(c+a)}$$

By using the formula, $a^2 - b^2 = (a + b)(a - b)$

$$\Rightarrow 2^2 (x)^{(a^2-b^2)} \times 3^2 (x)^{(b^2-c^2)} \times 6^{-2} (x)^{(c^2-a^2)}$$

$$\Rightarrow 2^2 (x)^{(a^2-b^2)} \times 3^2 (x)^{(b^2-c^2)} \times (3 \times 2)^{-2} (x)^{(c^2-a^2)}$$

By using the exponent property, $(a \times b)^m = a^m \times b^m$

$$\Rightarrow 2^2 (x)^{(a^2-b^2)} \times 3^2 (x)^{(b^2-c^2)} \times (3)^{-2} \times (2)^{-2} (x)^{(c^2-a^2)}$$

By using the property $a^m \times a^n = a^{(m+n)}$

$$\Rightarrow 2^{(2+(-2))} \times 3^{(2+(-2))} \times x^{(a^2-b^2)+(b^2-c^2)+(c^2-a^2)}$$

By the property of exponents, i.e $a^0 = 1$

$$\Rightarrow 2^0 \times 3^0 \times x^0$$

$$\Rightarrow 1 \times 1 \times 1 = 1$$

The value of the expression is 1.

53. Answer: c

Explanation:

Concept used:

Divisibility of 11 = Number is divisible by 11 when the difference between the sum of odd digits and sum of even digits is either 0 or multiple of 11

Calculation:

Odd digits = 6, 4, *, 5

Even digits = 3, 7, 2

According to the rule,

(Sum of odd digits) - (sum of even digits) = 0 or multiple of 11

$$\Rightarrow (6 + 4 + * + 5) - (3 + 7 + 2) = 3 + *$$

$\therefore (3 + *)$ should be 0 or multiple of 11

$$\Rightarrow \text{Taking } 3 + * = 0$$

$* = -3$ which is Impossible as $*$ will carry only a positive integral value

$$\Rightarrow \text{Taking } (3 + *) = 11, \text{ as 11 is the closest to the } (3 + *)$$

$$\Rightarrow (3 + *) = 11$$

$$\Rightarrow * = 8$$

The value of * is 8 and the number will be 637825.

54. Answer: a

Explanation:

Given:

Average weight of the mango box = 35,

Number of apple boxes = 15,

Number of mango boxes = 20

Formula used:

$$\text{Weighted average} = \frac{w_1 \times n_1 + w_2 \times n_2}{n_1 + n_2}$$

Calculation:

Let the number of boxes of mango and apples be n_1 and n_2

$$\Rightarrow n_1 = 20 \text{ and } n_2 = 15$$

Let the average weight of mango box be w_1 and apple box be w_2

$$\Rightarrow w_1 = 35 \text{ kg and } w_2 = ?$$

By using the formula of weighted average and taking value of weighted average as 30 kg,

$$\Rightarrow 30 = \frac{35 \times 20 + 15 \times w_2}{15 + 20}$$

$$\Rightarrow 1050 = 700 + 15 \times w_2$$

$$\Rightarrow w_2 = \frac{350}{15} = \frac{70}{3}$$

The average weight of a box of apples is $\frac{70}{3}$ kg.

As per the question,

The average of Mangoes is increasing by 5 from the common average.

It means that the average of Apple is 5 less than the common average.

So we can say that a verage weight of the apple box

$$\Rightarrow 30(\text{avg}) - (5(\text{diff}) \times 20 (\text{box of mango}))/15(\text{box of apples})$$

$$\Rightarrow 30 - (100/15) = 70/3$$

★ Shortcut Trick

55. Answer: b

Explanation:

Given:

Total number of matches = 20

Total average runs = 30

Formula used:

$$\text{Average} = \frac{\text{sum of observation}}{\text{total number of observation}}$$

Calculation:

By using the formula of average we can calculate the total runs scored by player in 20 matches

$$\Rightarrow \text{Total runs} = \text{Average runs} \times \text{Total number of matches}$$

$$\Rightarrow \text{T otal runs} = 30 \times 20$$

$$\Rightarrow \text{T otal runs} = 600$$

Similarly, we can calculate the total runs scored by the player in the first 12 matches,

$$\Rightarrow R_{12} = \text{Average runs} \times \text{Total number of matches}$$

$$\Rightarrow R_{12} = 40 \times 12 = 480$$

The difference between the total runs and total runs in the first 12 matches will give the total runs scored by the player in the last 8 matches ,

$$\Rightarrow \text{Total runs in last 8 matches} = 600 - 480$$

$$\Rightarrow \text{Total runs in last 8 matches} = 600 - 480 = 120$$

By using the formula of average,

$$\Rightarrow \text{Average} = \frac{120}{8}$$

$$\Rightarrow \text{Average} = 15 \text{ runs}$$

The average of the last 8 matches is 15 runs.

★ Shortcut Trick

$$\text{Average} = 30,$$

$$\text{Extra runs in first 12 matches} = 12 \times 10 = 120$$

This means that the average of the remaining 8 matches will be less by 120 runs, only then the common average will be 30

$$\Rightarrow \text{Total runs in last 8 matches} = 30 - (120/8) = 30 - 15 = 15$$

56. Answer: c

Explanation:

Given:

Extra Curricular Activities	College						
	A	B	C	D	E	F	G
I	150	250	450	50	350	250	150
II	50	150	150	50	50	50	50
III	100	50	400	125	100	500	150
IV	250	125	350	275	250	150	150

Calculation:

Total number is students in extra curricular activities in

$$\text{College A} = 150 + 50 + 100 + 250 = 550$$

$$\text{College B} = 250 + 150 + 50 + 125 = 575$$

$$\text{College C} = 450 + 150 + 400 + 350 = 1350$$

$$\text{College D} = 50 + 50 + 125 + 275 = 500$$

$$\text{College E} = 350 + 50 + 100 + 250 = 750$$

$$\text{College F} = 250 + 50 + 500 + 150 = 950$$

$$\text{College G} = 150 + 50 + 150 + 150 = 500$$

So, the minimum number of students for extra-curricular is from colleges D and G

57. Answer: b

Explanation:

Formula used

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

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

Squaring both sides we get

$$(x - \frac{1}{x})^2 = 11^2$$

$$x^2 + \frac{1}{x^2} - 2 \times x \times \frac{1}{x} = 121$$

$$x^2 + \frac{1}{x^2} = 121 + 2 = 123$$

Adding 2 on both sides

$$x^2 + \frac{1}{x^2} + 2 = 123 + 2 = 125$$

$$(x + \frac{1}{x}) = \sqrt{125}$$

$$x^2 - \frac{1}{x^2} = (x - \frac{1}{x})(x + \frac{1}{x}) = \sqrt{125} \times 11 = 55\sqrt{5}$$

58. Answer: a

Explanation:

Given

Cost price : Marked price = 4 : 7

Discount = 25%

Profit = Rs 50

Formula used

$$\frac{C}{M} = \frac{100-D}{100+P}$$

C = cost price

M = marked price

D = discount%

P = profit%

Calculation

$$\frac{C}{M} = \frac{100-D}{100+P} = \frac{100-25}{100+P} = \frac{4}{7}$$

from this P = 31.25%

31.25% of C = 50Rs

then, C is 100% which is $\frac{50}{31.25} \times 100 = 160Rs$

The cost price of the article is Rs 160

59. Answer: d

Explanation:

Given

Price at which he sells rice = 30Rs/kg

Price shopkeeper claims = 27Rs/kg

Quantity marked = 1000g

Quantity given = 750g

Formula used

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

Calculation

The shopkeeper claims he is selling 1000g at price of 27Rs/kg=27Rs

But originally he uses 750g for 30Rs/kg = 22.5Rs

From the above, cost price = 22.5Rs

Selling price = 27Rs

$$\text{Profit \%} = \frac{S-C}{C} \times 100 = \frac{27-22.5}{22.5} \times 100 = 20 \%$$

The total profit shopkeeper earned is 20%

★ Shortcut Trick

	cp	sp
rate	30	27
amount	750	1000

$$\Rightarrow \text{CP : SP} = 30 \times 750 : 27 \times 1000 = 5 : 6$$

$$\text{so profit} = 6 - 5 = 1 \text{ P\%} = (1/5) \times 100 = 20$$

60. Answer: b

Explanation:

Given

length of 1st train=230 m

length of 2nd train=240 m

distance between trains=130 m

speed of 1st train=160 km/h

speed of 2nd train=200 km/h

Calculation

relative speed=160+200=360 km/h=100 m/s

Total distance for crossing=length of two trains+ distance between trains=470+130=600m

Time taken= $\frac{\text{distance}}{\text{speed}} = \frac{600}{100} = 6 \text{ sec}$

Total time taken for trains to cross each other = 6 sec

61. Answer: d

Explanation:

Given:

40% Cost price = 30% Selling price

Calculation:

40% Cost price = 30% selling price

Thus reducing the above equation we get,

$$4C = 3S$$

$$S = 4C/3$$

$$\text{Profit or loss \%} = \frac{S-C}{C} \times 100 = \frac{\frac{4C}{3}-C}{C} \times 100 = \frac{4-3}{3} \times 100 = 33.33$$

Approximately there is a profit of 33.33%

62. Answer: c

Explanation:

Formula used:

General form $x^2 + y^2 + 2gx + 2fy + c = 0$

Radius $r^2 = g^2 + f^2 - c$

Calculation:

Comparing the equations

$g = -2, f = 3, c = -12$

Radius $= r = \sqrt{g^2 + f^2 - c} = \sqrt{4 + 9 - (-12)} = \sqrt{25} = 5$

The radius of the circle is 5 cm

63. Answer: d

Explanation:

%students in operating system=16%

%students in java=22%

% students in DBMS=14%

total % students from above specializations=22+16+14=52%

total % of students from all specialization is 100% that is 8000

so 52% is $\frac{8000}{100} \times 52 = 4160$

The number of students from the above selected specialization is 4160

64. Answer: a

Explanation:

Given:

Principle = 390625

Amount = 456976

Rate of interest = 8%

Compounded half yearly

Formula used:

$$A = P\left(1 + \frac{r}{100}\right)^n$$

Calculation:

It is compounded half yearly, for 12 months $r = 8\%$

For 6 months, $r = 8/2 = 4\%$

Substituting,

$$A = P\left(1 + \frac{r}{100}\right)^n = 456976 = 390625\left(1 + \frac{4}{100}\right)^n$$

$$\frac{456976}{390625} = \left(\frac{104}{100}\right)^n$$

$$\frac{26^4}{25^4} = \left(\frac{26}{25}\right)^n$$

From this we get $n = 4$ where n is in number of half years

4 half years = 2 years

The amount will be obtained in 2 years.

65. Answer: b

Explanation:

Given

principle=160000

rate of interest=10% per annum

time =2years

compounded half yearly

Formula used

Amount=Principle $(1 + \frac{r}{100})^n$

Calculation

because of interest compounded half yearly the rate of interest will be halved

for 12 months $r=10\%$

for 6 months $r=5\%$

n =time taken=2years which is 4 half years

$$A = P(1 + \frac{r}{100})^n = A = 160000(1 + \frac{5}{100})^4 = 194481$$

compounded interest=Amount-Principle=194481-160000=34481Rs

The compound interest isRs. **34,481**

66. Answer: a

Explanation:

Given:

A can do the work in 5 days.

B can do the work in 6 days.

C can do the work in 10 days.

Calculations:

According to the question,

⇒ One day work of A = $\frac{1}{5}$ units

⇒ One day work of B = $\frac{1}{6}$ units

⇒ One day work of C = $\frac{1}{10}$ units

Total Work of A B and C = $(\frac{1}{5}) + (\frac{1}{6}) + (\frac{1}{10})$

Total Work = $(6 + 5 + 3)/30$

Total Work = $14/30 = 7/15$ units

A B and C can complete the work in $15/7$ days

∴ They will finish the same work in $15/7$ or $2\frac{1}{7}$.

★ **Shortcut Trick**

	Time	Efficiency	Total work
A	5	6	30
B	6	5	
C	10	3	

⇒ Total time = $30 / (6+5+3) = 30/14 = 2\frac{1}{7}$

67. Answer: c

Explanation:

Given:

Edge of the square = 20 cm

Formula used:

Area of square = A^2

Area of Circle = $\pi \times r^2$

Calculations:



Radius = $D/2 = 20/2 = 10$ cm

According to the question,

Area of shaded region = Area of Square - Area of Circle

$$\Rightarrow \text{Area} = (20)^2 - \pi(10)^2$$

$$\Rightarrow \text{Area} = 400 - \pi 100$$

$$\Rightarrow \text{Area} = 400 - 314$$

$$\Rightarrow \text{Area} = 86 \text{ cm}^2$$

∴ The area of the shaded region is 86 cm^2 .

68. Answer: c

Explanation:

Given:

Radius of the base of a cylinder = $12/2 = 6 \text{ cm}$

Height of the cylinder = $2.45 \times 6 = 14.7 \text{ cm}$

Formula Used:

Cylinder volume = $\pi \times (\text{radius})^2 \times \text{height}$

Calculations:

According to the question,

$$\text{Volume} = \pi \times (6)^2 \times 14.7$$

$$\Rightarrow \text{Volume} = 22/7 \times 36 \times 14.7$$

$$\Rightarrow \text{Volume} = 22 \times 36 \times 2.1 = 1663.2 \text{ cm}^3$$

∴ The volume of the cylinder is 1663.2 cm^3 .

Option Method:-

Whatever the answer will be, it will be divisible by 11. This means that the rule of divisibility of 11 will follow.

This is the only option (3) which is divisible from 11
[1 + 6 + 2 = 6 + 3] [add odd term = add even term]

★ Shortcut Trick

69. Answer: b

Explanation:

Given:

y varies directly with x,

y = 61 when x = 42,

Calculations:

According to the question

$$y/x = 61/42$$

$$\Rightarrow y/54 = 61/42$$

$$\Rightarrow y = (61 \times 54)/42$$

$$\Rightarrow y = 3294/42 = 78.4 \approx 78$$

$\therefore$ The value of y will be 78.

70. Answer: a**Explanation:**

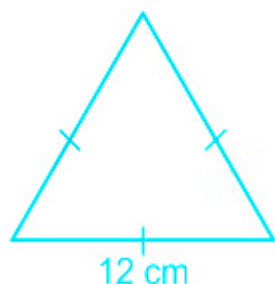
Given:

Side of equilateral triangle = 12 cm

Formula used:

$$\text{Area} = (1/4) \times a^2 \times \sqrt{3}$$

Calculations:



According to the questions,

$$\Rightarrow \text{Area} = \left(\frac{1}{4}\right) \times (12)^2 \times \sqrt{3}$$

$$\Rightarrow \text{Area} = \left(\frac{1}{4}\right) \times 144 \times \sqrt{3}$$

$$\Rightarrow \text{Area} = 36 \times \sqrt{3} = 36\sqrt{3} \text{ cm}^2$$

$\therefore$ The area of an equilateral triangle will be $36\sqrt{3} \text{ cm}^2$.

71. Answer: a

Explanation:

Given:

$$\frac{17.46^2 - 4.46^2}{17.46 + 4.46}$$

Concept used:

$$(a^2 - b^2) = (a + b)(a - b)$$

Calculations:

$$[(17.46)^2 - (4.46)^2] \div (17.46 + 4.46)$$

$$\Rightarrow [(17.46 + 4.46)(17.46 - 4.46)] \div (17.46 + 4.46)$$

$$\Rightarrow 17.46 - 4.46 = 13$$

$\therefore$ The simplified value of the given equation is 13.

72. Answer: d

Explanation:

Given:

The salaries of X, Y and Z are in the ratio 2 : 3 : 5.

Calculations:

Let total salary be 'x'

According to the question,

The Difference in salaries of Z and X = $5x - 2x = 3x$

Now the percentage

$$\Rightarrow (3x/2x) \times 100$$

$$\Rightarrow 1.5 \times 100 = 150\%$$

$\therefore$ Z has 150% more salary than X.

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73. Answer: c

Explanation:

Given:

The average of two numbers is 96.

If 2 is added to the smaller number, the ratio between the numbers becomes 2 : 3.

Calculations:

Let the numbers be x and y where $y > x$

According to the question,

$$\Rightarrow x + y = 192 \dots\dots(1)$$

$$(x + 2)/y = 2/3$$

$$\Rightarrow 3x + 6 = 2y$$

$$\Rightarrow 3x - 2y = -6 \dots\dots(2)$$

Adding (2) and (1) we get,

$$\Rightarrow 5x = 378$$

$$\Rightarrow x = 378/5 = 75.6$$

$\therefore$ The smaller number is 75.6

74. Answer: d

Explanation:

Given:

$$x = \left[\frac{1}{5} + \left\{ \frac{1}{7} \text{ of } \left(\frac{25}{42} \div \frac{35}{6} \right) - \left(\frac{4}{7} \times \frac{6}{5} \div \frac{54}{63} \right) \right\} + \frac{28}{40} \right]$$

Formula Used:-

BODMAS rule

where B - Brackets, O - Order of powers, D - Division, M - Multiplication, A - Addition, and S - Subtraction

Calculation:-

$\Rightarrow$ BODMAS rule we have to solve from B to S

$\Rightarrow$ so we have to solve the bracket first

$$\Rightarrow x = \left[\frac{1}{5} + \left\{ \frac{1}{7} \text{ of } \left(\frac{25}{42} \div \frac{35}{6} \right) - \left(\frac{4}{7} \times \frac{6}{5} \div \frac{54}{63} \right) \right\} + \frac{28}{40} \right]$$

$$\Rightarrow x = \left[\frac{1}{5} + \left\{ \frac{1}{7} \text{ of } \left(\frac{25}{42} \times \frac{6}{35} \right) - \left(\frac{4}{7} \times \frac{6}{5} \times \frac{63}{54} \right) \right\} + \frac{28}{40} \right]$$

$$\Rightarrow x = \frac{1}{5} + \left(\frac{1}{7} \times \frac{5}{49} - \frac{4}{5} \right) + \frac{28}{40}$$

$$\Rightarrow x = \frac{1}{5} + \left(\frac{5}{343} - \frac{4}{5} \right) + \frac{28}{40}$$

$$\Rightarrow x = \frac{1}{5} + \left(\frac{-1347}{1715} \right) + \frac{7}{10}$$

$$\Rightarrow x = \frac{9}{10} - \frac{1347}{1715} = \frac{15435-13470}{1715} = \frac{1965}{1715} = \frac{393}{343}$$

$$\Rightarrow \text{The value of } x \text{ is } \frac{393}{3430}$$

75. Answer: d

Explanation:

Given:

The following table gives information about the population of five different cities in the year 2020.

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City	Total Population	% of Men	% of Women	% of Children
P	46800	45%	35%	20%
Q	45400	35%	50%	15%
R	42000	48%	42%	10%
S	39250	42%	42%	16%
T	46200	40%	45%	15%

Calculations:

According to the question,

Total Children in City S = Total population $\times$ 16%

$$\Rightarrow 39250 \times 16\%$$

$$\Rightarrow (39250 \times 16)/100$$

$$\Rightarrow (628000)/100 = 6280$$

$\therefore$ The number of children in city S is 6280.

76. Answer: b

Explanation:

The correct answer is Five point someone

★ Key Points

- In **five Point Someone** , he describes the perennial themes like **parental pressure on children for getting admission in highly competitive institute, earn high grades, get a good job, poverty, exploitation at job place, ill effects of domestic quarrel** etc.
- In **five point someone** by **Chetan Bhagat** , three friends spend four years in the IIT. Alok , Hari and Ryan three dormitory roommates ,have a miserable first day at IIT since they fail the first quiz .
- the novel is based somewhat on **Bhagat's own life and is considered a semi-autobiographical work.**

★ Additional Information

- The **three mistakes of my life** was written by **Chetan Bhagat**. the story of three friends is followed throughout the book,which is set in **western indian city Ahmedabad**
- **Chetan bhagat** published a book in 2011 titled **Revolution 2020 Love, corruption, ambition** . A love triangle , corruption and a quest for self discovery are all themes in the novel
- **Chetan bhagat** published a collection of his lectures and articles titled **What Young India Wants** . It centres on Indian politics and society from the view point of the nations youth.

77. Answer: d

Explanation:

The correct answer is Rabies.

★ Key Points

- **Rabies** is a **preventable viral disease** most often transmitted through the bite of a **rabid animal**.
- The **Rabies virus** infects the central nervous system of mammals, ultimately causing disease in the brain and death

- **Risks from monkey bites include serious wound infections , herpes B virus and rabies .** if a person is bitten the wound should be thoroughly cleaned with soap and water.

★ Additional Information

- **Malaria is a serious and sometimes fatal disease caused by a parasite that commonly infects a certain type of mosquito which feeds on humans**
 - People who get malaria are typically very sick with high fevers, shaking chills, and flu-like illness. Four kinds of malaria parasites infect humans: Plasmodium falciparum, P.
- **Typhoid fever is a bacterial infection that can spread throughout the body, affecting many organs.**
 - Without prompt treatment, it can cause serious complications and can be fatal. It's caused by a bacterium called Salmonella typhi, which is related to the bacteria that cause salmonella food poisoning.
- **Influenza is a contagious respiratory illness caused by influenza viruses that infect the nose, throat, and sometimes the lungs.**
 - It can cause mild to severe illness, and at times can lead to death. The best way to prevent flu is by getting a flu vaccine each year.

78. Answer: c

Explanation:

The correct answer is Mrinalini Sarabhai

★ Key Points

- **Mrinalini Sarabhai** was an **Indian classical dancer, choreographer and instructor.**
- She was the founder and director of the Darpana Academy of Performing Arts, an institute for imparting training in dance, drama, music and puppetry, in the city of Ahmedabad.
- She received **Padma Bhushan** in 1992 and **Padma shri** in 1965.
- She also received many other citations in recognition of her contribution to art.

★ Additional Information

- Sonal Mansingh is a dancer of odissi, which is a classical Indian dance form that originated in Orissa, and other Indian classical forms. Apart from being a dancer, she was also a teacher, researcher, choreographer, and social activist.
- Shovana Narayan is a recognised Indian Kathak dancer and a career officer with Indian Audit and Accounts Service. She performs in India and internationally, and has been awarded the Padma Shri.
- Rukmani Arundale was an Indian theosophist, dancer and choreographer of the Indian classical dance form of Bharatanatyam, and an activist for animal welfare.

79. Answer: d

Explanation:

The correct answer is Ghatam

★ Key Points

- The ghatam is an ancient percussion instrument in used Carnatic classical music
- The ghatam consists of a clay pot reinforced with brass, copper and iron fillings.
- The pitch of the ghatam is unique and can only be slightly modified by water and additional clay.

★ Additional Information

- The pakhavaj is a barrel-shaped, two-headed drum, originating from the Indian subcontinent
 - it is the oldest version of double sided drums and its descendants are mridangam of Southern India and kendang of Maritime Southeast Asia and other South Asian double-headed drums.
- Dholak is about 45 cm in length and 27 cm in breadth and is widely used in qawwali, kirtan, lavani and bhangra .

- The drum has two different sized drumheads.
- **Tabla** word is derived from the Arabic word “tabl” which means a “drum”.
Tabla is the most commonly used membranophone percussion musical instrument in **Hindustani classical music**.

80. Answer: b

Explanation:

The correct answer is Arpinder Singh

★ Key Points

- **Arpinder** got his training in Ludhiana. In 2014, **Arpinder won a bronze medal at the Glasgow Commonwealth games** and made it to the headlines
- Thereafter, in 2018, he won **a gold medal in Asian Games and the same year he became the first Indian athlete to win a medal in IAAF Continental Cup**.
- He was a **gold medallist** at the 2018 Asian Games. He also **claimed a bronze medal at the 2014 Commonwealth Games in Glasgow**.

★ Additional Information

- **Satish kumar** is an **Indian British activist and speaker**. He has been a Jain monk, nuclear disarmament advocate and pacifist.
- **Lakha singh** was a king belonging to the Sisodia lineage of Mewar in present-day state of Rajasthan. He was the son of Maharana Kshetra Singh and ruled from 1382 until his death in 1421
- **Former IAS officer Dr Gurdial Singh Sandhu** been appointed as Advisor to the Ministry of Urban Development & Housing (UDH), Local Self Government (LSG) and Housing, Rajasthan

81. Answer: d

Explanation:

The correct answer is Indian ocean

★ Key Points

- It is the only ocean with an asymmetric and, in the north, semiannually reversing surface circulation.
- It has no separate source of bottom water that is the Indian Ocean's bottom water originates outside its boundaries and has two sources of highly saline water (the Persian Gulf and the Red Sea)
- It is bounded by Asia to the north, Africa to the west and Australia to the east .

★ Additional Information

- The second-largest ocean on Earth, the Atlantic drives our weather patterns, including hurricanes, and is home to many species from sea turtles to dolphins.
 - For centuries the Atlantic Ocean has been a key avenue of trade and travel.
- The Pacific Ocean is the largest and deepest ocean on Earth.
 - It spans 60 million square miles from California to China, and in certain regions extends tens of thousands of feet below the surface of the water
- The Southern Ocean is known for its uniqueness in the diversity of organisms.
 - Cold adaptation and evolution in thermal isolation over tens of millions of years has resulted in an ecosystem that is unparalleled

82. Answer: b

Explanation:

The correct answer is "Code for responsible lending."

★ Key Points

- The Code for Responsible Lending (CRL), a self-regulatory mechanism put in place by the Microfinance Institutions Network (MFIN) and Sa-Dhan along with FIDC (Finance Industry Development Council),
- It is set to introduce additional parameters for tighter risk management.

- The COC of MFIN is designed to ensure that its members follow the RBI guideline as also few self imposed guidelines to improve the quality of **lending, transparency, self discipline, coordination among MFIs & healthy competition, grievances redressal mechanism, anti-poaching activities** etc.
- The responsible lending obligations involve: **making reasonable inquiries about a consumer's financial situation, and their requirements and objectives.**

★ Additional Information

- **Industry Code**
 - it means **the code which indicates the nature of the employer's business, which is contained in the Standard Industrial Classification (SIC) manual published by the Federal Office of Management and Budget, or in the North American Industrial Classification System (NAICS) published by the U.S**
- **Micro finance**
 - it must conduct proper due diligence as per its internal credit policy to assess the need and repayment capacity of client before making a loan and must only make loans commensurate with the client's ability to repay
- **Microlending**
 - the programs are **a type of peer-to-peer financing for small businesses and new startups.**

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83. Answer: d

Explanation:

The correct answer is **Ustad Alla Rakha**

★ Key Points

- He is popularly known as **Alla Rakha**, was an **Indian tabla player who specialized in Hindustani classical music.**
- He was a frequent accompanist of **sitar player Pandit Ravi Shankar** and was largely responsible for introducing **Tabla** to the western audience.

- **Alla Rakha** left his home at age 12 to learn tabla under the great master (ustad) Mian Qadir Baksh.
- He also trained under **Ashik Ali Khan**, a vocalist admired especially for his mastery of the **khayal Hindustani** song repertoire

★ Additional Information

- **Ustad Amjad Ali Khan** is popularly known as the “**Sarod Samrat**”. He is the sixth generation sarod player in his family
- **Imrat khan** was an **Indian sitar and surbahar player and composer**.
- **Ustad Faiyaz khan** was an **Indian classical vocalist**, an exponent of the **Agra Gharana of Hindustani Classical music**.

84. Answer: a

Explanation:

The correct answer is Anopheles mosquito

★ Key Points

- **Anopheles mosquitoes Adult Females** prefer to feed on humans or animals like Cattles.
- The female mosquito travel in the swarms to mate with some **Anopheles male mosquitoes** which often occur at dusk.
- Following a **blood meal** ,**female mosquitoes** rest for a few days as the **blood breaks down** and the eggs hatch.
- With the **exception of Antarctica** ,**Anopheles mosquitoes** are **present almost everywhere** .
- **Anopheles mosquitoes** spread the **parasite disease malaria**.
- **Malaria** is a **parasitic infection** transmitted by **Anopheline mosquitoes**.

★ Additional Information

- When fresh or stagnant water is present **Adult female mosquitoes** lay eggs on the surface

- There are many different places where you can find water, such as puddles, creeks, ditches, ornamental ponds, horse troughs, unmaintained swimming pools and marshy areas.
- **Single eggs** are laid by female **Culex mosquito**.
- **Aedes aegypti** is a recognised carrier of a number of viruses such as the chikungunya, dengue and zika viruses. There are yearly reports of imported cases in Europe.
- **Flea bites** leave an itchy welt on the skin, often on the ankles and legs.

85. Answer: d

Explanation:

The correct answer is Sunil Chhetri

★ Key Points

- **Sunil Chhetri**, captain of the Indian football team, is **one of the most active goal scorers in the country**.
- He is the leading goal scorer in international football for India as well as in domestic football tournaments.
- **Sunil Chhetri** appeared in **54 international matches** for India so far and has scored 41 goals which is almost half of his total goals tally (84)

★ Additional Information

- **Gurpreet Singh Sandhu** is an Indian professional footballer who plays as a goalkeeper for Indian Super League club Bengaluru and the India national team
- **Subrata Paul** is an Indian professional footballer who plays as a goalkeeper for Indian Super League club ATK Mohun Bagan, on loan from Hyderabad.
- **Baichung Bhutia** is an Indian former professional footballer who played as a striker.
 - **Bhutia** is considered the torchbearer of Indian football in the international arena.

- He is often nicknamed the **Sikkimese Sniper** because of his shooting skills in football.

86. Answer: a

Explanation:

The correct answer is **Ministry of Commerce and Industry**.

★ Key Points

- DPI has created **Startup India Seed Fund Scheme (SISFS)** with an outlay of INR 945 Crore to provide financial assistance to startups for proof of Concept.
- The **Startup India Seed Fund Scheme** is being implemented by the government with effect from **1 April 2021**.
- It provides financial assistance to eligible departments for the **Promotion of Industry and Internal Trade**.
- The Ministry of **International Trade and the Ministry of Industry** were split off from the Ministry of Commerce and Industry in July 1963.
- Currently serving as Minister is BJP member **Piyush Goyal**.
- Amrit Kaur was a member of **Jawaharlal Nehru's** first cabinet following India's independence.

★ Additional Information

- The head of the Ministry of **Finance for the Government of India** is known as the **Minister of Finance** or simply the Finance Minister.
The finance minister, one of the top positions in the Union Cabinet, is in charge of the nation's budget.
- The Ministry is in charge of organising all **national skill development initiatives**, closing the skills gap between supply and demand, developing the framework for technical and vocational education, skill up-skilling, developing new skills, and encouraging creative thinking that is **not limited to existing jobs**.
- **The formation of policies**, planning, development, export promotion, and trade regulation for the textile industry fall within the purview of the **ministry of**

textiles . This comprises all cellulosic fibres, both natural and synthetic, used in the production of textiles, apparel, and handicrafts.

87. Answer: a

Explanation:

The correct answer is **Mojave Desert of California**.

★ Key Points

- The **Mojave Desert** has provided an alien setting for fiction ranging from Star Trek to Fear and Loathing in **Las Vegas because of its extreme aridity, harsh weather, and eerie scenery**.
- Amid the **Southwest of the United States** , in the Sierra Nevada mountains' rain shadow, sits the xeric Mojave Desert.
- It has the name of the **local Mojave people**.

★ Additional Information

- A 1,600 km long stretch of land on the **Pacific coast, west of the Andes Mountains** , is covered by the **Atacama Desert** , a desert plateau in South America.
 - Amazing wind-eroded landforms can be found in **southeast Iran's Lut Desert**.
 - A desert on the continent of **Africa is called the Sahara**.
-

88. Answer: d

Explanation:

The correct answer is **Patiala**.

★ Key Points

- **Lakshmi Shankar** was an Indian singer and a noted Hindustani classical.

- Born into a south **Indian Brahmin family**.
- She became an outstanding Hindustani vocalist of the **Patiala Gharana** and married Rajendra Shankar, brother of Uday Shankar, a Bengali by birth.
- **A special feature of the Patiala Gharana** approach to singing is its rendering of intricate taans.
- Hindustani classical music is the classical music of the northern regions of the Indian subcontinent.
- It may also be called North Indian classical music or, in Hindustani.
- The Hindustani music style is mainly found in North India, Pakistan, and Bangladesh.

★ Additional Information

- **The Gwalior Gharana** evolved during the time of the Mughal Empire.
- **The name Agra Rangeela Gharana**, representing his soft and vibrant gayaki.
- **The name of this school of music derives from Kirana**, a town and tehsil of Shamli District in Uttar Pradesh.

89. Answer: c

Explanation:

The correct answer is **Karan Johar**.

★ Key Points

- **Karan Johar** has finally launched his autobiography. Titled **An Unsuitable Boy**, the book chronicles the life story of the celebrated filmmaker.
- The book is an honest, heart-warming, and personal account of **Karan Johar's life and the business of Bollywood**.
- **Karan Johar** is a director, screenwriter, producer, costume designer, actor, and television host.

★ Additional Information

- **Sanjay Leela Bhansali** is an Indian filmmaker, director, screenwriter, and music composer.
 - **Aditya Chopra** is an Indian filmmaker, studio executive, and film distributor.
 - **Vikram Bhatt** is an Indian director, producer, screenwriter, and actor.
-

90. Answer: a

Explanation:

The correct answer is **Girija Devi**.

★ Key Point

- **Girija Devi** was an Indian classical singer of the **Seniya and Banaras gharanas**.
- She performed classically and light classical music and helped elevate the **profile of thumri**.
- **Girija Devi** is also known as '**The Queen of Thumri**'.
- **Thumri** is North India's most popular light-classical song form.
- It is developed during the **19th century at the court of Lucknow's ruler Wajid Ali Shah**.

★ Additional Information

- **Shubha Mudgal** is an Indian singer of Hindustani classical music.
 - **Gayatri Sankaran** is an Indian Carnatic musician and vocalist specializing in Carnatic vocals and violin performances.
 - **Rita Devis** is a Hindustani classical singer.
-

91. Answer: a

Explanation:

The correct answer is **Jeet Thayil**.

★ Key Point

- **Narcopolis** is the debut novel of Indian author **Jeet Thayil**, which was shortlisted for the **2012 Man Booker Prize**.
- It is set in **1970s Old Bombay** and concerns opium and its influence.
- The **novel's narrator arrives in Bombay**, where he becomes seduced into the opium underground.
- **Jeet Thayil** is an Indian poet, novelist, librettist, and musician.

★ Additional Information

- **Shashi Tharoor** is an Indian former international diplomat, politician, and writer.
- **David Davidar** is an Indian novelist and publisher.
- **Anees Salim** is an Indian author.

92. Answer: a

Explanation:

The correct answer is **Corn starch**.

★ Key Points

- The **starch** is obtained from the **endosperm of the kernel**.
- These **endosperms** are ground into a fine, **white powder**.
- **Corn starch** is a common food ingredient.
- Corn starch is often used as a **thickening agent**.
- Corn starch consists of **amylose and amylopectin**.

★ Additional Information

- **Gelatine** is brittle when dry and rubbery when moist.
- **Potato starch** is a starch extracted from potatoes.
- **Pectin** was first isolated and described in 1825 by Henri Braconnot.

93. Answer: d

Explanation:

The correct answer is **1953**.

★ Key Points

- The government of India was forced to create the first linguist state known as **Andhra Pradesh** by separating the Telugu-speaking areas from the **Madras state**.
- The first-of-its-kind linguistic movement started in **1895**.
- The movement gained **momentum in later years**.

★ Additional Information

- In **1956**, the SRC recommended the creation of linguistic states.
- Recommended a bi-lingual state for **Maharashtra-Gujarat**.
- The Indian government declared **Bombay** as a centrally administered territory.

94. Answer: c

Explanation:

The correct answer is **January**.

★ Key Points

- The historic **Ajanta and Ellora caves** of Aurangabad are in the spotlight during the festival.
- The Ajanta- Ellora caves evolved during the period **2nd century BC to 6th century AD**.
- The paintings and sculptures of Ajanta and Ellora caves are **UNESCO World Heritage Sites since 1983**.

★ Additional Information

- There are **34 caves at Ellora** dating from between the 6th and 11th centuries.
- These are considered masterpieces of the Buddhist religion that have had a great influence on the **development of art in India**.
- **Ajanta and Ellora** caves are Maharashtra's star tourist attractions.

95. Answer: c

Explanation:

The correct answer is **Osteomalacia**.

★ Key Points

- **Osteomalacia** is softening of the bones.
- It most often occurs because of a problem with **vitamin D**, which helps your body absorb calcium.
- The body needs calcium to maintain the **strength and hardness of bones**.

★ Additional Information

- **Osteopenia** is when your bones are weaker than normal but not so far gone that they break easily, which is the **hallmark of osteoporosis**.
- Most cases of **Osteomyelitis** are caused by **staphylococcus bacteria**, types of germs commonly found on the skin or in the nose of even healthy individuals.
- A lifelong lack of calcium plays a role in the development of **Osteoporosis**.

96. Answer: b

Explanation:

The correct answer is **Bharatanatyam**.

★ Key Points

- **Tanjore Balasaraswati**, also known as Balasaraswati, was an Indian dancer, and her rendering of **Bharatanatyam**.
- A classical dance style originated in the **South Indian state of Tamil Nadu**.
- **Balasaraswati** became a sought-after dancer.
- Tutelage under **Kandappa Pillai** continued along with guidance from **Gauri Ammal** and **Chinnaya Naidu**.
- Balasaraswati, The dancer who popularised Bharatnatyram to the world.
- She founded the **Dipasikha Dance Foundation** in **Chennai**.

★ Additional Information

- **Kuchipudi** is a dance-drama performance, with its roots in the ancient **Hindu Sanskrit text of Natya Shastra**.
- **Odissi** is a dance form from the state of **Odisha in eastern India**.
- **Mohiniyattam** is a graceful dance to watch and is a solo recital by women.

97. Answer: d

Explanation:

The correct answer is **UAE and Oman**.

★ Key Points

- The **2021 ICC Men's T20 World Cup** was the 7th ICC Men's T20 World Cup tournament.
- The matches played in the United Arab Emirates and Oman from **17 October to 14 November 2021**.
- The United Arab Emirates are the relations between the **United Arab Emirates and Oman**.
- With a total of 45 matches, the T20 World Cup was composed of two rounds.
- ICC T20 World Cup 2021 Most Runs was **Babar Azam with 303 Runs Tops The List**.

★ Additional Information

- **The U.A.E .** has an embassy in Muscat while Oman maintains an embassy in Abu Dhabi and a consulate-general in Dubai.
- U.A.E. and Oman, both countries are part of the **Middle East region** and share close cultural ties.
- The United Arab Emirates is one of the **Persian Gulf States**.

98. Answer: d

Explanation:

The correct answer is **Chess**.

★ Key Points

- The **golden rule of chess** is a piece is safe only as long as it is defended by the same number of pieces that are attacking it.
- If your opponent attacks one of your pieces, count the number of your pieces that defend it immediately to make sure that it is safe.
- The **fifty-move rule** in chess states that a player can claim a draw if no capture has been made and no pawn has been moved in the last fifty consecutive moves.

★ Additional Information

- The name snooker comes from a comment chamberlain made about a player who missed a shot.
- Baseball is a bat-and-ball sport played between two teams of nine players each.
- Billiards, any of various games played on a rectangular table with a designated number of small balls and a long stick called a cue.

99. Answer: a

Explanation:

The correct answer is **Kathak**.

★ Key Points

- **Kumudini Lakhia** is an Indian Kathak dancer and choreographer based in **Ahmedabad, Gujarat**.
- She founded **Kadamb School of Dance and Music**, an institute of Indian dance music in 1967.
- She started her career **dancing with Ram Gopal**.
- **Bharata natyam, kathakali, manipuri, kuchipudi, and odissi** are among the major Indian classical dance-dramas, along with kathak, which is one among them. Native to northern India, **Kathak was shaped by both Muslim and Hindu** cultural influences.
- **One of the eight primary** styles of Indian classical dance is **kathak**. It is the traditional dance of **Uttar Pradesh**. The origins of Kathak are frequently attributed to the travelling storytellers or bards known as **Kathakars in ancient northern India**.

★ Additional Information

- **Kumudini** learned first from various gurus of **Jaipur Gharana**, and then from **Shambhu Maharaj**.
- Kumudini was the name of the mother of **Rai Bahadur Ranada Prasad Shaha**.
- The world-famous Kathak dancer, **Pandit Birju Maharaj** is the face of the **Kalka-Bindadin Gharana** of Lucknow.

100. Answer: b

Explanation:

The correct answer is **Sahyadri Range**.

★ Key Points

- **The Krishna river** is a river in the Deccan plateau and the **third-longest river in India**.

- The range is known as **Sahyadri in Maharashtra and Karnataka.**
- The smallest peak in the western that's is **Kodikuthi.**

★ **Additional Information**

- The **Satpura Range** is a range of hills in central India.
- The **Vindhya Range** is a complex, discontinuous chain of mountain ridges, hill ranges, highlands, and plateau escarpments in west-central India.
- The **Eastern Ghats** are a discontinuous range of mountains along India's eastern coast.

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