



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 (02-Jun-2022) (Shift 3)

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. 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)

I suggested her two _____ dates, both in the coming month and just a few days _____ from each other to start her singing practice.

- a. alarming, near
- b. adverse, different
- c. alternative, apart
- d. alternating, closely

-
2. 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 can get in touch with the larger global community by communicating and sharing their views via social media.

B. Furthermore, this provides a suitable platform to express their views, conduct business with online transaction, or find new people or jobs.

C. Smartphones have become a very important form of communication these days.

D. It is impossible for a rational person to deny the advantages of smartphones as they are devices suitable for a wide variety of tasks.

- a. CBDA
- b. CDAB

c. DCBA

d. ABCD

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

Desiderate

a. Quarrel

b. Disregard

c. Acquire

d. Mandate

4. Select the INCORRECTLY spelt word. (+2, -0.5)

a. Inscrutable

b. Banality

c. Conscientious

d. Giddyap

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

The litigant wished that justice would prevail.

a. detective

b. culprit

c. abuser

d. petitioner

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

The outcome of the interview will be published by next week.

- a. The panel will have published the outcome of the interview by the week next.
 - b. The panel would have published the outcome of the interview by next week.
 - c. The panel was to publish the outcome of the interview by next week.
 - d. The panel will publish the outcome of the interview by next week.
-

7. Select the most appropriate meaning of the idiom given in bold in the following sentence. (+2, -0.5)

She is **green-eyed** with his success.

- a. afraid
 - b. worried
 - c. jealous
 - d. enthusiastic
-

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

The players seem to be suffering from exertion.

- a. inaction

- b. suffocation
 - c. traction
 - d. reaction
-

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

The cricketer is in sublime form.

- a. superior
 - b. interior
 - c. inferior
 - d. exterior
-

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

Charley horse

- a. Very fast
 - b. Lucky
 - c. Cramp
 - d. Cunning
-

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

The national flag was hoisted by the minister.

- a. The minister hoist the national flag.

- b. The minister was hoisted the national flag.
 - c. The minister hoisted the national flag.
 - d. The minister will hoist the national flag.
-

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

Prerna is in a great _____ about whether to go for the party or not.

- a. pain
 - b. depression
 - c. dilemma
 - d. distress
-

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

For the time being, the liberals seem to have **carried the day**.

- a. unpopular
 - b. winning
 - c. popular
 - d. despised
-

14. From among the words given, select the INCORRECTLY spelt word in the following sentence. (+2, -0.5)

Tibet was ruled by a theocracy of Buddhist monks under nominal suzerainty of China.

- a. nominal
- b. suzerainty
- c. buddhist
- d. theocracy

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

In order to restore peace, the Czar renounced the throne in favour of his first cousin.

- a. abdicated
- b. stepped
- c. sacrificed
- d. sacrileged

-
16. Select the INCORRECTLY spelt word. (+2, -0.5)

- a. Brusque
- b. Boisterous
- c. Blizzard
- d. Blonde

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

Children like to play games all the time.

- a. Children like being played to games all the time.
- b. Games liked playing with children all the time.
- c. Games are liked to be played by children all the time.
- d. Children are being played games all the time.

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

Boldness

- a. Eagerness
- b. Hard-heartedness
- c. Wisdom
- d. Bravery

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

One must care as for family members as possible.

- a. most for family members
- b. as most for family members
- c. more for family members
- d. as much for family members

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

A person who leaves his/her own country to live in another country permanently

- a. Vagabond
- b. Mercenary
- c. Emigrant
- d. Immigrant

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)

Just before midnight he put on warm clothes and his new shoes and (1) _____ across the bridge. He turned (2) _____ the road and along the sound below the church. Ice had formed on the sound and inside the old harbor, but further out he could see a darker belt of (3) _____ water. As he stood there, the lights on the (4) _____ of the church went out, and it was dark all around him. It was (5) _____ cold and stars filled the sky.

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

- a. danced
- b. stalked
- c. slept
- d. walked

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)

Just before midnight he put on warm clothes and his new shoes and (1) _____ across the bridge. He turned (2) _____ the road and along the sound below the church. Ice had formed on the sound and inside the old harbor, but further out he could see a darker belt of (3) _____ water. As he stood there, the lights on the (4) _____ of the church went out, and it was dark all around him. It was (5) _____ cold and stars filled the sky.

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

- a. under
- b. inside
- c. off
- d. over

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)

Just before midnight he put on warm clothes and his new shoes and (1) _____ across the bridge. He turned (2) _____ the road and along the sound below the church. Ice had formed on the sound and inside the old harbor, but further out he could see a darker belt of (3) _____ water. As he stood there, the lights on the (4) _____ of the church went out, and it was dark all around him. It was (5) _____ cold and stars filled the sky.

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

- a. wet
- b. closed
- c. dried
- d. open

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)

Just before midnight he put on warm clothes and his new shoes and (1) _____ across the bridge. He turned (2) _____ the road and along the sound below the church. Ice had formed on the sound and inside the old harbor, but further out he could see a darker belt of (3) _____ water. As he stood there, the lights on the (4) _____ of the church went out, and it was dark all around him. It was (5) _____ cold and stars filled the sky.

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

- a. architecture
- b. tunnel
- c. vent
- d. façade

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)

Just before midnight he put on warm clothes and his new shoes and (1) _____ across the bridge. He turned (2) _____ the road and along

the sound below the church. Ice had formed on the sound and inside the old harbor, but further out he could see a darker belt of (3) _____ water. As he stood there, the lights on the (4) _____ of the church went out, and it was dark all around him. It was (5) _____ cold and stars filled the sky.

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

- a. some
- b. abundantly
- c. sparingly
- d. icy

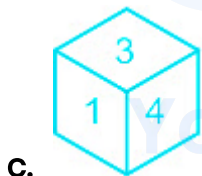
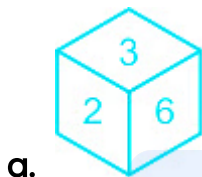
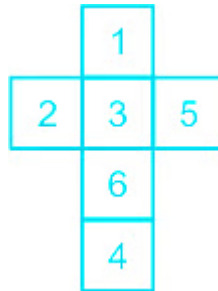
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General Intelligence

26. Select the box that can be formed by folding the given sheet along the lines.

(+2, -0.5)



27. Which of the following numbers will replace the question mark (?) in the given series?

(+2, -0.5)

641, 647, 659, 673, 683, ?

- a. 711
- b. 715
- c. 701
- d. 705

28. Select the option that represents the correct order of the given words as they would appear in an English dictionary. (+2, -0.5)

- 1. Prophet
- 2. Prudent
- 3. Producer
- 4. Quest
- 5. Puberty
- 6. Profound

- a. 3, 5, 6, 1, 2, 4
- b. 3, 6, 2, 1, 5, 4
- c. 3, 1, 6, 5, 2, 4
- d. 3, 6, 1, 2, 5, 4

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

T _ _ r S S _ T T r _ _ S u T T r r _ _ u

- a. T r u r S S S

b. TrurTSS

c. TrurSrT

d. SrurSSS

30. The second number in the given number-pairs is obtained by performing $(+2, -0.5)$ 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.

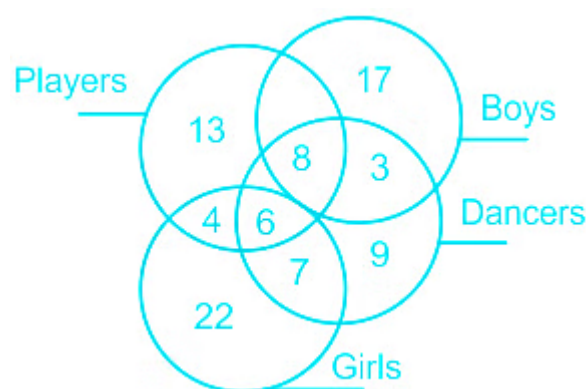
a. 3 : 14

b. 5 : 63

c. 7 : 172

d. 9 : 355

31. Consider the Venn diagram below, and from the given alternatives, choose the number that indicates the total number of girls who are players and dancers. $(+2, -0.5)$



a. 6

b. 4

c. 8

d. 7

32. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word) (+2, -0.5)

Watch : Wrist :: Clock : ?

- a. House
- b. Wall
- c. Room
- d. Shop

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

$$25 * 5 * 10 * 2 * 4 * 7$$

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

34. In a certain code language, 'SKATE' is written as '191122010' and 'ROLLER' is written as '183012121018'. How will 'SLIDE' be written in that language? (+2, -0.5)

- a. 191218412
- b. 191218416
- c. 191218414
- d. 191218410

35. In a certain code language, "ENSURE" is written as "FPVTPB", and "EQUITY" is written as "FSXHRV". How will "FINGER" be written in that language? (+2, -0.5)

- a. GJQFCO
- b. GKRFCO
- c. GKQFDO
- d. GKQFCO

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

1, 24, 58, 125, 247, 446, ?

- a. 774
- b. 747
- c. 744
- d. 777

37. If 15th October 2008 was a Wednesday, then what was the day of the week on 14th October 2012? (+2, -0.5)

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

38. In a certain code language, "MATURE" is written as "AMUTER", and "MENTAL" is written as "EMTNLA". How will "MOBILE" be written in that language? (+2, -0.5)

- a. OMIEBL
- b. OMIBEL
- c. OIMEBL
- d. OIMBEL

39. 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)

18 : 55 :: 28 : 85 :: 36 : ?

- a. 105
- b. 115
- c. 109
- d. 104

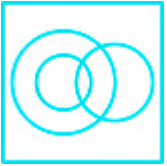
40. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown. (+2, -0.5)



- a. ht92na
b. ht92na
c. ht92na
d. ht92na

41. Select the Venn diagram that best illustrates the relationship between the following classes. (+2, -0.5)

Peaches, Lychees, Fruits

- a. 
- b. 
- 

c.



d.

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

$$17 * 18 * 6 * 5 * 2 * 10$$

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

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

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

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

43. 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 'alphas' are 'betas'.

No 'beta' is a 'gamma'.

Some 'thetas' are 'alphas'.

Conclusions:

I. Some gammas are alphas.

II. Some thetas are betas.

III. No alpha is a gamma.

- a. Only conclusion II follows.
- b. Only conclusion I follows.
- c. Both conclusions II and III follow.
- d. Both conclusions I and II follow.

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

1778, 1609, 1465, 1344, 1244, ?

- a. 1144
- b. 1109
- c. 1178
- d. 1163

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

$17 * 4 * 63 * 7 * 21 * 3 * 59$

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

d. =, -, ×, +, ÷, -

46. 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 fourth term related to third term. (+2, -0.5)

27 : 81 :: 18 : 36 :: 33 : ?

- a. 121
- b. 135
- c. 125
- d. 131

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



- a. 972KJH
- b. 246HJK
- c. H1K54θ
- d. 54θH1K

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

GOWB, MVEK, SCMT, ?, EQCL

- a. YKUC
- b. YKCU
- c. YJCU
- d. YJUC

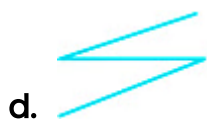
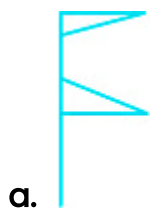
49. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation. (+2, -0.5)

$25 * 3 * 5 * 15 * 1$

- a. =, +, +, +
- b. +, =, +, -
- c. ÷, ×, ×, =
- d. ×, =, ×, ×

50. Select the options figure which is embedded in the given figure (rotation is NOT applicable). (+2, -0.5)





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Your Personal Exams Guide

Quantitative Aptitude

51. Two tangents TP and TQ are drawn to a circle with centre O from an external point T. If TP = 7 cm, find the length of TQ. (+2, -0.5)

- a. 7 cm
- b. 10.5 cm
- c. 3.5 cm
- d. 14 cm

52. Simplify $p^3 + 27$ (+2, -0.5)

- a. $(p + 3)(p^2 - 3p - 9)$
- b. $(p + 3)(p^2 + 3p + 9)$
- c. $(p - 3)(p^2 - 3p + 9)$
- d. $(p + 3)(p^2 - 3p + 9)$

53. The area of a square is $9m^2 + 12m + 4$. Find the measure of the side of the square. (+2, -0.5)

- a. $3m + 2$
- b. $3m + 4$
- c. $3m^2 + 2$
- d. $3m^2 + 2m$

54. The factors of $a^2 - 1 - 2x - x^2$ are _____. (+2, -0.5)

- a. $(a - x - 1)(a - x - 1)$
- b. $(a + 1 + x)(a - 1 - x)$
- c. $(a - x + 1)(a - x + 1)$
- d. $(a - x + 1)(a - x - 1)$

55. The length of each side of a regular hexagon is 10 cm. What is the area of the hexagon? (+2, -0.5)

- a. $156\sqrt{3} \text{ cm}^2$
- b. $144\sqrt{3} \text{ cm}^2$
- c. $148\sqrt{3} \text{ cm}^2$
- d. $150\sqrt{3} \text{ cm}^2$

56. If $\cos(x - y) = \frac{\sqrt{3}}{2}$ and $\sin(x + y) = 1$, where x and y are positive acute angles and $x \geq y$, then x and y are: $(0^\circ < (x + y) \leq 90^\circ)$ (+2, -0.5)

- a. $70^\circ; 20^\circ$
- b. $50^\circ; 40^\circ$
- c. $80^\circ; 10^\circ$
- d. $60^\circ; 30^\circ$

57. Find the volume of a sphere of diameter 21 cm (use $\pi = \frac{22}{7}$) (+2, -0.5)

- a. 5232 cm^3
 - b. 6342 cm^3
 - c. 4268 cm^3
 - d. 4851 cm^3
-

58. After melting three cubes of sides 6 cm, 8 cm and 10 cm, a big cube is made. Find the side of the new cube. (+2, -0.5)

- a. 13 cm
 - b. 24 cm
 - c. 25 cm
 - d. 12 cm
-

59. Raghuvir purchased some perishable items for sale but 36% of those items could not be sold and went bad. However, Raghuvir managed to sell the rest of the items at a price that helped him earn an overall profit of 28%. At what percentage above the cost price of each item did Raghuvir sell each of the items that did not go bad? (+2, -0.5)

- a. 100%
 - b. 92%
 - c. 63%
 - d. 120%
-

60. 6 men or 2 women or 4 boys can finish a work in 77 days. How many days will 1 man, 1 woman, and 1 boy together take to finish the same work? (+2, -0.5)

- a. 86
- b. 80
- c. 84
- d. 82

61. While traveling from Nashik to Daman, Harsh drove for 1 hour at a speed of 50 km/h and for the next three hours at 60 km/h. What was his average speed for the whole trip? (+2, -0.5)

- a. 56 km/h
- b. 57.5 km/h
- c. 55 km/h
- d. 58.5 km/h

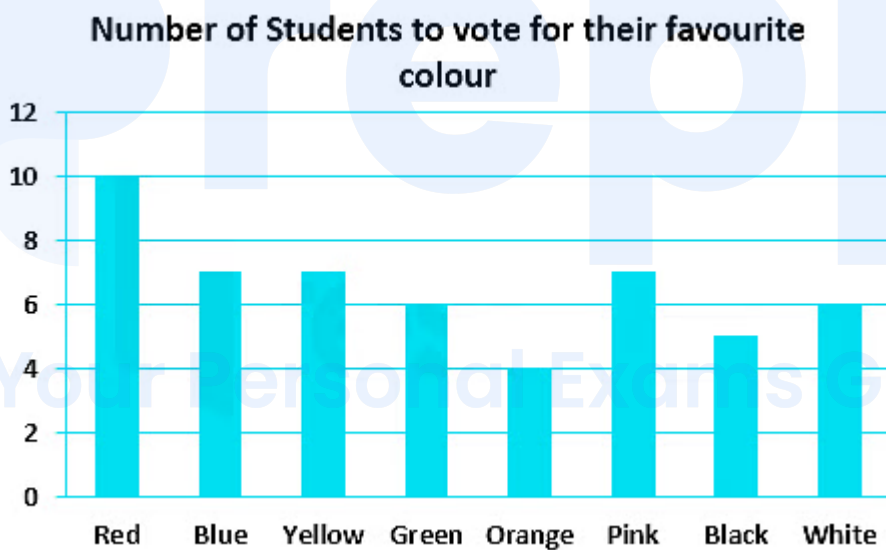
62. Which one of the following numbers is divisible by 24? (+2, -0.5)

- a. 569896
- b. 478656
- c. 480128
- d. 543344

63. A seller gives 4 toys free of cost on buying 14 toys. What percent does the customer get as a discount? (+2, -0.5)

- a. $21\frac{2}{9}\%$
- b. $22\frac{2}{9}\%$
- c. $24\frac{2}{9}\%$
- d. $23\frac{2}{9}\%$

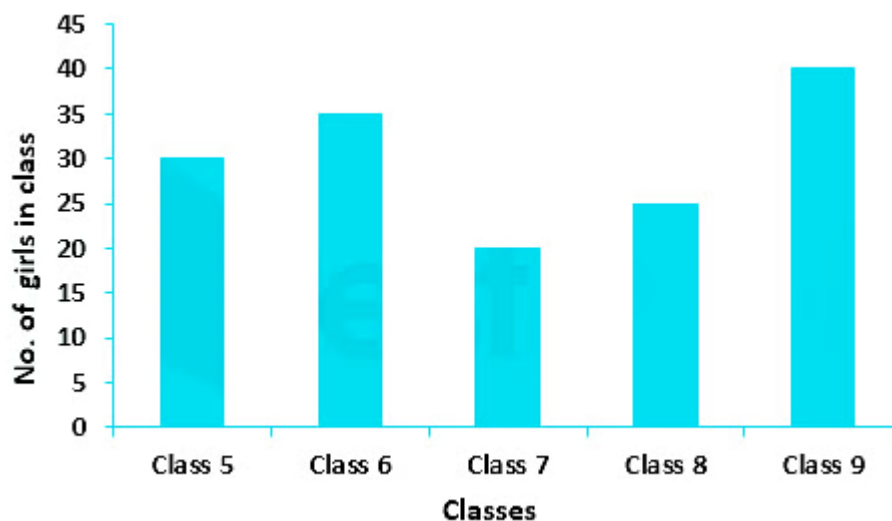
64. As per the data on the basis of which the following bar graph has been constructed, how many students were surveyed? (+2, -0.5)



- a. 53
- b. 51
- c. 52
- d. 50

65. In an election between Ram and Shyamal, one got 30% of the total votes and thus lost by 900 votes. If 90% of the voters voted and no invalid or illegal votes were cast, then what was the number of voters on the voting list? (+2, -0.5)
- a. 2800
 - b. 2500
 - c. 2700
 - d. 2300

66. If x is the fourth proportional of 48, 72 and 108, what is the value of x ? (+2, -0.5)
- a. 72
 - b. 144
 - c. 120
 - d. 162



67. (+2, -0.5)

Study the given bar graph and calculate the average number of girls studying in the 5th, 6th and 8th grades.

- a. 32.5
- b. 20.33
- c. 30
- d. 28.33

68. A man runs 200 metres in 24 seconds. His speed is: (+2, -0.5)

- a. 30 km/h
- b. 32 km/h
- c. 24 km/h
- d. 33 km/h

69. Aman has taken a loan of ₹50,000 from a bank at the rate of 8% to be compounded annually. How much does he have to pay after 3 years? (Nearest to a ₹) (+2, -0.5)

- a. ₹62,517
- b. ₹62,871
- c. ₹62,986
- d. ₹62,000

70. Namitha gives a 20% discount on all things in her shop and yet makes a profit of 12%. What is the cost price of an item with marked price of ₹280? (+2, -0.5)

- a. ₹200
- b. ₹210
- c. ₹215
- d. ₹212

71. During his entire school life, John's average marks in science was 80% and his average marks in mathematics was 90%. If his combined average marks in science and mathematics was 84%, while the total marks obtained by him in science was 54,000, what was John's total marks obtained in mathematics? (+2, -0.5)

- a. 90000
- b. 81000
- c. 36000
- d. 60000

72. What is the value of $1980 \div 9 + [-77 + \{-1980 + (\frac{1}{4} \text{ of } 7920)\}]$? (+2, -0.5)

- a. 1990
- b. 1980
- c. 164
- d. 143

73. A way of punching data that exhibits the values of the variables and corresponding frequencies is called: (+2, -0.5)

- a. an array
- b. frequency of observation
- c. raw data
- d. frequency distribution

74. A man spends 10.5% of his salary on items of daily use and 30% of the remainder on house rent; after that, he is left with Rs. 12,000. How much is his salary (consider the round-up value)? (+2, -0.5)

- a. ₹18,050
- b. ₹19,154
- c. ₹10,054
- d. ₹19,000

75. Vinod had ₹10,000 with him. He lent a part of it at 8% per annum simple interest and the remaining at 10% per annum. His total annual income was ₹880. Find the sum lent at 8%. (+2, -0.5)

- a. ₹5,500
- b. ₹6,000
- c. ₹5,000
- d. ₹6,500

General Awareness

76. Which of the following novels is written by Mulk Raj Anand that shows the cruelty of the caste system based on pre-independence era of India? (+2, -0.5)
- a. The Village
 - b. Untouchable
 - c. Across the Black Waters
 - d. Coolie
-
77. Which organisation was created in 1988 by the World Meteorological Organization (WMO) and the United Nations Environment Program (UNEP) to assess the science related to climate change ? (+2, -0.5)
- a. Intergovernmental Panel on Climate Change (IPCC)
 - b. International Climate Action Network (ICAN)
 - c. Global Climate Growth Institute (GCGI)
 - d. Australian Youth Climate Coalition (AYCC)
-
78. In the ancient times, which river was also known as 'Pooni' in Tamil which is the fourth largest river flowing in the southeast direction through the states of Karnataka and Tamil Nadu? (+2, -0.5)
- a. Kaveri River
 - b. Satluj River
 - c. Ravi River

d. Tapi River

79. The term 'off break' is used in which of the following sports? (+2, -0.5)

- a. Football
 - b. Hockey
 - c. Badminton
 - d. Cricket
-

80. Who among the following has written the Hindi novel 'Kafan'? (+2, -0.5)

- a. Sumitranandan Pant
 - b. Mahadevi Verma
 - c. Jaishankar Prasad
 - d. Premchand
-

81. _____ is a situation in the bonds market when the rate of interest falls to its lowest level and the speculative demand for money becomes perfectly elastic. (+2, -0.5)

- a. Cash crunch
 - b. Infinite supply
 - c. Liquidity trap
 - d. Zero money velocity
-

82. Which Indian musician won the Grammys in 2015 in the Best New Age Album category, his album Winds of Samsara was a collaboration with a South African falutist Wouter Kellerman? (+2, -0.5)

- a. Alokannanda Dasgupta
- b. Sadhu Kokila
- c. Rickey Kej
- d. Stephen Devassy

83. Three Indians were named amongst Time Magazine's '100 Most Influential People' of 2021. Who among the following is NOT one of them? (+2, -0.5)

- a. Gautam Adani
- b. Narendra Modi
- c. Mamta Banerjee
- d. Adar Poonawalla

84. Who among the following is known as Sarangi instrumentalist? (+2, -0.5)

- a. T.N Krishnan
- b. Narendra Modi
- c. T.M Krishna
- d. Ustad Bundu Khan

85. 2021 marked the 145th birth anniversary of the designer of the Indian National Tricolour. What was his/her name? (+2, -0.5)

- a. Madame Bhikaji Cama
 - b. Bankim Chandra Chattopadhyay
 - c. Pingali Venkayya
 - d. Annie Besant
-

86. What is the percentage of land used for agriculture in India as per the 2009 data by National Institute of Hydrology? (+2, -0.5)

- a. 51.09%
 - b. 50.09%
 - c. 59.09%
 - d. 59.01%
-

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87. Sonal Mansingh, the classical dance legend, has NOT received which of the following awards? (+2, -0.5)

- a. Sangeet Natak Akademi Award
 - b. Padma Vibhushan
 - c. Padma Shri
 - d. Padma Bhushan
-

88. Who among the following Indian musicians introduced shehnai to the concert stage and was selected to perform for the ceremony at Delhi's historic Red Fort on the occasion of India's Independence Day on 15 August 1947? (+2, -0.5)

- a. Ali Bakhsh
- b. Anant Lal
- c. Bismillah Khan
- d. Ali Ahmad Hussain

89. The autobiography 'Unbreakable: An Autobiography' is written by which of the following sportspersons of India? (+2, -0.5)

- a. Yuvraj Singh
- b. M C Mary Kom
- c. Abhinav Bindra
- d. P T Usha

90. Davis Cup is associated with which of the following sports? (+2, -0.5)

- a. Badminton
- b. Football
- c. Hockey
- d. Tennis

91. What kind of substances are separated using the technique of steam distillation? (+2, -0.5)

- a. Coloured substances
- b. Substances with many electrons
- c. Coarse substances
- d. Substances that are steam volatile

92. Identify the acid that helps in digestion. (+2, -0.5)

- a. Nitric acid
- b. Acetic acid
- c. Hydrochloric acid
- d. Sulphuric acid

93. DDT adversely affects our environment because: (+2, -0.5)

- a. it can kill beneficial insects like honey bees
- b. it can allow growth of harmful insects
- c. it can promote growth of harmful insects
- d. it can kill harmful insects

94. Which of the following Indian classical singers was known as Mallika-e-Ghazal or the Queen of Ghazal and got appreciations by the Nightingale (+2, -0.5)

of India, Sarojini Naidu at the age of fifteen?

- a. Chitra Singh
 - b. Begum Akhtar
 - c. Suraiya
 - d. Amrutha Suresh
-

95. Which of the following Odissi dancers is also a master of percussion instruments like Mridangam, Pakhavaj and Tabla? (+2, -0.5)

- a. Kelucharan Mohapatra
 - b. Sujata Mohapatra
 - c. Ramani Ranjan Jena
 - d. Sudhakar Sahoo
-

96. Which unicellular organism acquires food by a process in which cells absorb external material by engulfing it with the cell membrane? (+2, -0.5)

- a. Yeast
 - b. Volvox
 - c. Amoeba
 - d. Spirogyra
-

97. Which of the following Indian classical Bharatanatyam dancers received the honours of Padma Shri in 1981 and Padma Bhushan in 2003? (+2, -0.5)

- a. Savitha Sastry
 - b. Mallika Sarabhai
 - c. Rukmini Devi
 - d. Padma Subrahmanyam
-

98. Mallika Sarabhai, a Kuchipudi and Bharatanatyam dancer, was awarded with the Padma Bhushan in which of the following years? (+2, -0.5)

- a. 2012
 - b. 2008
 - c. 2006
 - d. 2010
-

99. In February 2022, which of the following persons was nominated for Laureus 'World Breakthrough of the Year' award? (+2, -0.5)

- a. Max Parrot
 - b. Sachin Tendulkar
 - c. Neeraj Chopra
 - d. Vinesh Phogat
-

100. _____ of the Constitution of India provides protection against arrest and detention in certain cases. (+2, -0.5)

- a. Article 25

- b. Article 22
- c. Article 23
- d. Article 20

Prepp

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Answers

1. Answer: c

Explanation:

The correct answer is- 'alternative, apart'.

★ Key Points

- Let's check each option:
 - Option 1:
 - alarming: that makes you frightened or worried
 - near : not far away in time or distance; close
 - Option 2:
 - adverse: making something difficult for somebody
 - different: not the same
 - Option 3:
 - **alternative** : that you can use do, etc., instead of something else
 - **apart** : away from somebody/something or each other; not together
 - Option 4:
 - alternating: to cause two types of events or things to happen or regularly follow one after the other
 - closely: without a big difference between two people, groups, or things

Hence, the most appropriate option to fill in the blanks is ' alternative, apart' .

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

The correct sentence is: *I suggested her two **alternative** dates, both in the coming month and just a few days apart from each other, to start her singing practice.*

2. Answer: b

Explanation:

The correct answer is "CDAB"

★ Key Points

- The jumbled sentences can be solved by what exactly the topic is and where it leads to.
- Rearrange the sentences in a sequence as per the events that happened.

★ Additional Information

- There are four jumbled arrangements in the options given.
- Find which Option comes first and mark the answer according to that.
- Options 3 and 4 don't synchronize but for Options 1 and 2, we can focus as it starts with the Smartphone the root of the topic.
- Option 2 has a systematic arrangement of the sentence like the Smartphone as a communication device, the advantages, a suitable platform to explore new feeds and finally the worldwide impact of social media.

3. Answer: b

Explanation:

The correct answer is Disregard.

★ Key Points

- The most appropriate antonym of the given word 'Desiderate' is 'Disregard'.
- Desiderate: feel a keen desire for.
- Meaning of the given options:
 - Quarrel: an angry argument or disagreement
 - *Disregard* : to take no notice of somebody/something; to treat something as unimportant
 - Acquire : to obtain or buy something
 - Mandate : the power that is officially given to a group of people to do something, especially after they have won an election

- Therefore, as per the points mentioned above, we find that the correct answer is Option 2.
-

4. Answer: c

Explanation:

The correct answer is Conscientious .

★ Key Points

- The correct spelling of ' Conscientious ' according to the English dictionary is 'Conscientious'.
- The word 'Conscientious ' means '**careful to do something correctly and well**' .
 - *Example:He's a conscientious worker.*
- Hence, the most appropriate answer is ' Conscientious '.

★ Additional Information

- Let's understand the meaning of other options.
 - **Inscrutable**—not showing any emotions and therefore difficult to understand or know.
 - **Banality**—the fact or condition of being banal; unoriginality.
 - **Giddyap**—command (as to a horse) to go ahead or go faster.
-

5. Answer: d

Explanation:

The correct answer is ' petitioner'.

★ Key Points

- The most appropriate synonym of the given word 'litigant' is 'petitioner'.
- litigant: a person who is taking legal action in a court of law .

- Meaning of the given options:
 - detective : a person, especially a police officer, who tries to solve crimes
 - culprit : a person who has done something wrong
 - abuser : someone who treats another person in a cruel, violent, or unfair way
 - *petitioner : a person who presents a petition to an authority in respect of a particular cause.*
- Therefore, as per the points mentioned above, we find that the correct answer is Option 4.

6. Answer: d

Explanation:

The correct answer is 'The panel will publish the outcome of the interview by next week.'

★ Key Points

- The given sentence is in Future Tense and in Passive Voice.
- The rule for changing a sentence in Future Tense from Passive voice to Active voice:
 - Interchange the object and subject with each other, i.e., the object of the passive sentence becomes the subject of the active sentence.
 - The active voice starts with the object of the passive voice.
 - Convert the verb into 1st form of the verb.
 - Structure: Subject + will/shall + V1 + object(Active Voice).

Object + will/shall + be + V3 + by + Subject (Passive Voice).

- Solution: *The outcome of the interview will be published by next week.* (Passive Voice)

The panel will publish the outcome of the interview by next week. (Active Voice)

- Therefore, the correct answer is 'The panel will publish the outcome of the interview by next week.'

★ Additional Information

- In Active Voice , a sentence emphasizes the subject performing an action.
- In Passive Voice, the sentence emphasizes the action or the object of the sentence.
 - Example: *He reads a novel.* (Active Voice)
A novel is read by him. (Passive Voice)

7. Answer: c

Explanation:

The correct answer is jealous .

★ Key Points

- The most appropriate meaning of the idiom ' green-eyed ' is ' jealous ' .
- green-eyed :jealous; envious; distrustful
 - Example:*this is where I get a bit **green-eyed** and bitter.*
- Therefore, as per the points mentioned above the correct answer is *option 3*.

Correct meaning:*jealous.*

★ Additional Information

Idiom	Meaning	Example
play (merry) hell with sth	to seriously damage or confuse something	The power cuts played hell with our computers.
play (sth) by ear	to play a piece of music by remembering the notes	He did not need sheet music. He could play the piece by ear.
play a joke/trick on sb	to confuse someone or cause a problem for them	Fate played a cruel trick on him when he was injured in his first game.

8. Answer: a

Explanation:

The correct answer is 'inaction'.

★ Key Points

- The most appropriate antonym of the given word 'exertion' is 'inaction'.
- exertion: using your body in a way that takes a lot of effort
- Meaning of the given options:
 - *inaction* : doing nothing; lack of action
 - suffocation : death caused by not having enough oxygen
 - traction : the action of pulling something along a surface; the power that is used for doing this
 - reaction : something that you do or say because of something that has happened
- Therefore, as per the points mentioned above, we find that the correct answer is Option 1.

9. Answer: c

Explanation:

The correct answer is inferior.

★ Key Points

- The most appropriate antonym of the given word 'sublime' is 'inferior'.
- sublime: of extremely high quality that makes you admire something very much .
- Meaning of the given options:
 - superior : better than usual or than somebody/something else
 - interior : the inside part of something
 - *inferior : low or lower in social position, importance, quality, etc.*
 - exterior : on the outside
- Therefore, as per the points mentioned above, we find that the correct answer is Option 3.

10. Answer: c

Explanation:

The correct answer is Cramp .

★ Key Points

- The most appropriate meaning of the idiom ' Charley horse ' is ' Cramp '.
- Charley horse :the common name for a muscle spasm or cramp.
 - *Example:I got a bad **Charley Horse** after swimming for an hour.*
- Therefore, as per the points mentioned above, the correct answer is *option 3*.

Correct meaning:Cramp

★ Additional Information

Idiom	Meaning	Example
play (merry) hell with something	to seriously damage or confuse something	The power cuts played hell with our computers.
play (something) by ear	to play a piece of music by remembering the notes	He did not need sheet music. He could play the piece by ear.
play a joke/trick on somebody	to confuse someone or cause a problem for them	Fate played a cruel trick on him when he was injured in his first game.

11. Answer: c

Explanation:

The correct answer is 'The minister hoisted the national flag.'

★ Key Points

- The given sentence is in Past Tense and in Passive Voice.
- The rule for changing a sentence in Past Tense from Passive voice to Active voice:
 - Interchange the object and subject with each other, i.e., the object of the passive sentence become the subject of the active sentence.
 - The active voice starts with the object of the passive voice.
 - Convert the verb into the V2 form of the verb.
 - Structure: Object + was/were + V3 + by + Subject (Passive Voice).

Subject + V2 + object (Active Voice).

- Solution: *The national flag was hoisted by the minister.* (Passive Voice)

The minister hoisted the national flag. (Active Voice)

- Therefore, the correct answer is 'The minister hoisted the national flag.'

★ Additional Information

- In Active Voice , a sentence emphasizes the subject performing an action.
 - In Passive Voice, the sentence emphasizes the action or the object of the sentence.
 - Example: *He reads a novel.* (Active Voice)
A novel is read by him. (Passive Voice)
-

12. Answer: c

Explanation:

The correct answer is- 'dilemma'.

★ Key Points

- Let's check each option:
 - pain : the **unpleasant feeling** that you have when a part of your body has been **hurt or when you are ill**
 - depression : a **mood disorder** that causes a persistent **feeling of sadness** and loss of interest
 - *dilemma* : a situation in which you have to **make a difficult choice between two or more things**
 - distress : the state of being **very upset or of suffering great pain** or difficulty
- Hence, the most appropriate option to fill in the blank is ' dilemma' .
- Thus, *option 3* is the correct answer.

The correct sentence is: *Prerna is in a great dilemma about whether to go for the party or not.*

13. Answer: b

Explanation:

The correct answer is winning.

★ Key Points

- The most appropriate meaning of the given idiom '**carried the day**' is 'winning'.
- **carried the day**: be victorious or successful.
 - *Example: They had a bad start, but the home team managed to have **carried the day** in the end*
- Therefore, as per the points mentioned above, we find that the correct answer is Option 2.

Correct meaning:**winning**.

14. Answer: b

Explanation:

The correct answer is suzerainty .

★ Key Points

- The correct spelling of ' suzerainty ' according to the English dictionary is '**suzerainty**'.
- The word '**suzerainty**' means '**the right of a country to partly control another**' .
 - *Example:Japan acknowledged Russian suzerainty over the island of Sakhalin.*
- Hence, the most appropriate answer is ' suzerainty '.

★ Additional Information

- Let's understand the meaning of other options.
 - **nominal**-being something in name only but not in reality.
 - **Buddhist**-a person whose religion is Buddhism .
 - **theocracy**-a system of government in which priests rule in the name of God or a god.
-

15. Answer: a

Explanation:

The correct answer is- 'abdicated'.

★ Key Points

- Let's check each option:
 - *abdicated* : to **give up being King or Queen**
 - stepped :to **lift one foot and put it down** in a different place when you are walking
 - sacrificed : to **give up something that is important or valuable** to you in order to get or do something that seems more important
 - sacrileged : **treating a religious** object or place **without the respect** that it deserves
- Hence, the most appropriate option that can be used as a one-word substitute for the given group of words 'renounced the throne' is 'abdicated'.
- Thus, *option 1* is the correct answer.

16. Answer: c

Explanation:

The correct answer is Blizzard .

★ Key Points

- The correct spelling of ' Blizzard ' according to the English dictionary is '**Blizzard**'.
- The word ' blizzard ' means '**a very bad storm with strong winds and a lot of snow**' .
 - *Example:We were snowed in by a raging **blizzard**.*
- Hence, the most appropriate answer is ' Blizzard '.

★ Additional Information

- Let's understand the meaning of other options.
 - **Brusque**—using very few words and sounding rude.
 - **Boisterous**—(used about a person or behaviour) noisy and full of energy
 - **Blonde**—(a person) with fair or yellow hair.

17. Answer: c

Explanation:

The correct answer is " **Games are liked to be played by children all the time** ".

★ Key Points

- The **active form** of a sentence is changed to its **passive form** by **interchanging the object and subject** .
- In the sentence " **Children like to play games all the time** ", " **all the time** " is the **adjunct** which does **not undergo any changes** .
- In "Children like to play games", " **Children** " is the **subject** , " **like** " is the **verb** and " **to play games** " is the **object** .
- The **passive** of it will be " **Games are liked to be played by children** ".
- If the **adjunct** is also added, the complete sentence is " **Games are liked to be played by the children all the time** ".

★ Additional Information

- The **sentence** can be divided into **Subject, Verb and Object** .
 - **Example:** *Adam eats chocolates* .
- The **subject** is usually the **noun** . It denotes the **actor** of the action. Here, " **Adam** " is the subject.
- The **verb** is also referred to as the **Predicate** . It denotes **action** . In the given sentence, " **eats** " is the verb.
- **Object** denotes the **sufferer** of the action. Here, " **chocolates** " is the object.

18. Answer: d

Explanation:

The correct answer is Bravery.

★ Key Points

- **SYNONYM** is a phrase or word with the same or well almost the same meaning as another phrase or word.
- The word **Bravery** is a noun which means fearless behavior or character .

Example : Saving a dog from dog catchers was an act of **bravery** .

- The word **Boldness** means eagerness to take dangers and act imaginatively; confidence or strength.

Example : She crossed all the limits of **boldness** by wearing that dress.

- The meaning of word boldness is **similar** to the meaning of word bravery , hence **bravery** is the answer.

★ Additional Information

- The word **Hard heartedness** means missing in sympathetic understanding

Example : You would have to be pretty hard-hearted not to feel something for him.

- The word **Eagerness** means excitement to do or to have something; perception.

Example : I appreciated her **eagerness** to learn more.

- The word **Wisdom** means the quality of having experience, information, and great judgment; the quality of being astute.

Example : **Wisdom** is the key to success.

19. Answer: d

Explanation:

The correct answer is " **as much for family members** ".

★ Key Points

- " **As for family members** " means caring for the family member **without any emotion** .
- " **Much** " , being a **determiner** means to a **great extent** .
 - **Example:** *Rita likes this dress very **much** .*
- " **As much for family members** " means **caring** for the family members to a **great extent** .
- It adds more **meaning** and **depth** to the sentence.
- Therefore, the appropriate option is "as much for family members".

★ Additional Information

- **Determiners** are used in **referring and quantifying**.
- **Referring** means it points to the **referent** of the noun and **Quantifying** means it denotes the **quantity** .
- **Determiners** can basically be divided into **articles, demonstrative and personal** .
- **Articles** – a, an, the.
 - **Example:** *I had **an** awful day.*
- **Demonstrative** – this, that, these, those.
 - **Example:** *He wants **this** book.*
- **Personal** – my, his, their.
 - **Example:** *Both **my** children are playing.*

20. Answer: c

Explanation:

The correct answer is Emigrant.

★ Key Points

- The word **Emigrant** means a individual who leaves their own nation in order to settle forever in another.
- *Example* : Many **Emigrants** are homeless in UK.
- **Synonyms** for word Emigrant are Migrant, drifter.
- **Antonym** for word Emigrant are Immigrant , nationalist.

★ Additional Information

- The word **Vagabond** means a individual who meanders from place to place without a home or job.

Example : He was living a life of **vagabond** .

- The word **Mercenary** means a proficient warrior enlisted to serve in a foreign army.

Example : He intended to seize power with the help of mercenaries.

- The word **Immigrant** means a person who moves to another country to live permanently.

Example : "He is a recent German **immigrant** to the United States."

21. Answer: d

Explanation:

The Correct answer is Walked.

★ Key Points

- The word **walked** is the past form of word walk.
- The word **walk** is a verb which means to lift and lower each foot in turn, moving at a consistent pace, never lifting both feet off the ground at once.
- *Examples* - **Walk** : Lets go for an evening **walk** , **Walked** - He **walked** towards me and hugged me.

★ Additional Information

- The word **Stalked** is an adjective which means a series of unwelcome actions intended at one individual in particular that prompts them to alter their routine or feel scared, anxious, or in danger

Example : I **stalked** that boy sometimes.

- The word **Danced** is past form of word dance which means move in time with the music, usually by performing a predetermined order of actions.

Example : We **danced** a lot yesterday night.

- The word **Slept** is past tense of word sleep which means be sleeping; be in a condition of slumber.

Example : I **slept** early yesterday.

22. Answer: c

Explanation:

The correct answer is Off

★ Key Points

- **Adverbs** are modifier, also known as a qualifier, is a word or phrase that describes or qualifies an adjective, verb, or other adverb or word group, expressing a relationship of location, time, event, manner, cause, degree, etc (e.g., gently, quite, then, there).
- The word **off** is an adverb which means at or a distance from the location in question.
- *Example :* Hey man, back **off** !

★ Additional Information

- The word **under** is a preposition which means Extending from or positioned beneath something.

Example : The cat was sitting **under** the bench.

- The word **inside** is a noun which means the surface or inside of anything.

Example : Look **inside** the basket.

- The word **over** is a preposition which means a layer or level above than.

Example : Why are you falling **over** me?

23. Answer: d

Explanation:

The correct answer is Open.

★ Key Points

- **Adjective** is a term designating a noun's quality, such as sweet, red, or technical.
- The word **open** is an adjective which means not closed or barred; enabling access, passage, or a view through an empty gap.
- *Example :* Can you please **open** the can for me?

★ Additional Information

- The word **Wet** is an adjective which means water or another liquid-covered or saturated.

Example : My Shirt got **wet** .

- The word **Closed** is an adjective which means not open.

Example : The store is **closed** sir.

- The word **Dried** is means which means by removing or letting go of moisture, preserved.

Example : **Dried** maple leaves looks beautiful.

24. Answer: d

Explanation:

The correct answer is façade.

★ Key Points

- A **noun** is a word (other than a pronoun) that is used to name a specific one of these or to identify any of a class of people, places, or things (proper noun).
- The word **façade** is a noun which means the main entrance of a building, which looks out onto a street or other public area.
- *Example* : The façade of the home is half-timbered.

★ Additional Information

- The word **Architecture** is a noun which means design and construction of structures as an art or discipline..

Example : There is an **architecture** school near my home.

- The word **Tunnel** is a noun which means an artificial underground passage, especially one that is dug through a hill or beneath a structure, road, or river.

Example : Atal **tunnel** is the longest tunnel.

- The word **Vent** means an opening that lets restricted space air, gas, or liquid to enter or exit.

Example : The AC **vent** is not functioning properly.

25. Answer: d

Explanation:

The correct answer is icy.

★ Key Points

- An **Adjective** is a term designating a noun's quality, such as sweet, red, or technical.
- The word **icy** is an adjective which means composed of or covered in ice.
- *Example* : I can feel the **icy** winds straight on my face.

★ Additional Information

- The word **some** is a determiner which means an undefined number or quantity.

Example : Can you give me **some** oranges.

- The word **abundantly** is an adverb which means plenty; in huge amounts.

Example : The apple grows **abundantly** in Kashmir.

- The word **sparingly** is an adverb which means in little numbers; on a limited or irregular basis.

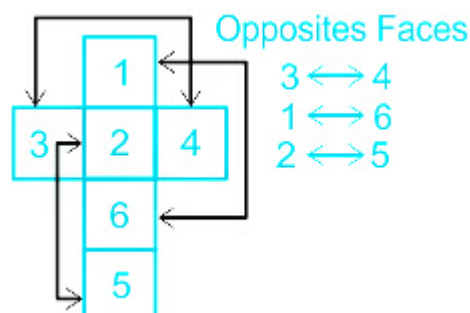
Example : The sharply flavored leaves should be used **sparingly** .

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26. Answer: a

Explanation:

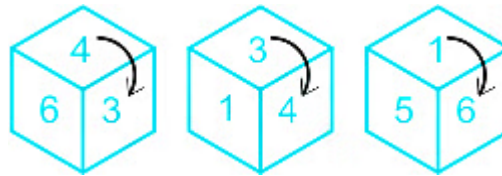
The image showing opposite faces of a dice is as follows



3 is opposite to 4, 1 is opposite to 6 and 2 is opposite to 5.

The opposite faces are not adjacent to each other.

In option(2) and option(3), 3 and 4 are adjacent to each other, and in option(4) 1 and 6 are adjacent to each other.



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

27. Answer: c

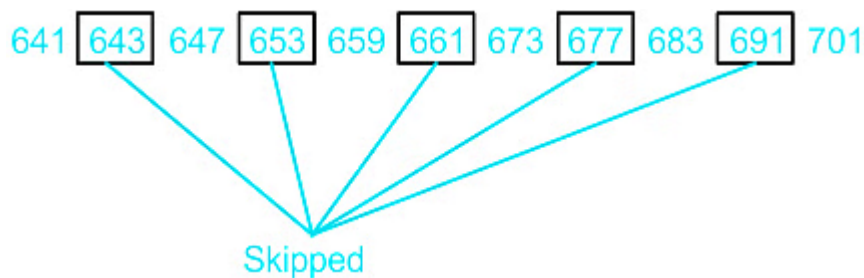
Explanation:

The pattern followed in the given series is:
One Prime number is skipped in each step..

641 then 643 is skipped next is 647..

Again 653 is skipped and next is 659 and so on.

Prime number series:



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

28. Answer: d

Explanation:

Here, the words are to be arranged in alphabetical order. So, the following will be the order.

3. **Prod** ucer

6. **Prof** ound

1. **Prop** het

2. **Pru** dent

5. **Pu** berty

4. **Q**uest

Therefore, the correct order is **3, 6, 1, 2, 5, 4**

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

29. Answer: a

Explanation:

Given series:- T _ _ r S S _ T T r _ _ S u T T r r _ _ u

Option(1)

T T r S S u / T T r r S S u / T T r r S S u.

Option(2)

T T r S S u / T T r r S S u / T T r r S S u.

Option(3)

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$T \underline{T} r r S S \underline{u} / T T r r \underline{SS} u / T T r r \underline{T} u.$

Option(4)

$T \underline{S} r r S S \underline{u} / T T r r \underline{SS} u / T T r r \underline{SS} u.$

Only option(1) repeats a pattern, T, r, and S come twice whereas u comes once to complete the series.

$T \underline{T} r r S S \underline{u} / T T r r \underline{SS} u / T T r r \underline{SS} u.$

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

30. Answer: d

Explanation:

Logic : $(\text{Cube of first number} \div 2) + 0.5 = \text{Second number}$

Lets check each option and identify which one is different from the rest:

1) 3 : 14

$$\Rightarrow (3^3 \div 2) + 0.5$$

$$\Rightarrow (27 \div 2) + 0.5$$

$$\Rightarrow 13.5 + 0.5$$

$$\Rightarrow 14$$

2) 5 : 63

$$\Rightarrow (5^3 \div 2) + 0.5$$

$$\Rightarrow (125 \div 2) + 0.5$$

$$\Rightarrow 62.5 + 0.5$$

$$\Rightarrow 63$$

3) $7 : 172$

$\Rightarrow (7^3 \div 2) + 0.5$

$\Rightarrow (343 \div 2) + 0.5$

$\Rightarrow 171.5 + 0.5$

$\Rightarrow 172$

4) $9 : 355$

$\Rightarrow (9^3 \div 2) + 0.5$

$\Rightarrow (729 \div 2) + 0.5$

$\Rightarrow 364.5 + 0.5$

$\Rightarrow 365 \neq 355$

9 : 355 is the odd one out.

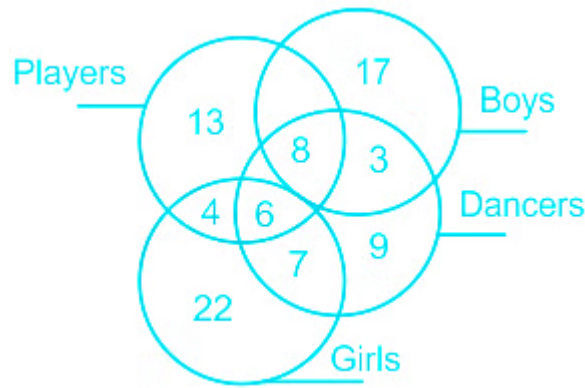
Hence, 'option 4' is the correct answer.

31. Answer: a

Explanation:

From the following Venn diagram, the total number of girls is 22, 4, 6, and 7. Girls who are dancers 7 and 6 and who are players 4 and 6.

So, the girls who are players and dancers are **6**(common between dancers and players)



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

32. Answer: b

Explanation:

Watch : Wrist :: Clock : ?

Watch : Wrist - Watch is wore in the hand

Similarly,

Clock : Wall - Clock is hanged on the walls.

Hence, the correct answer is '**wall**'

★ Additional Information

1. House - In house, there is room, kitchen etc.
3. Room - Room has table, chair, bed etc.
4. Shop - Shop has goods

33. Answer: c

Explanation:

The correct answer is option(3)

By using BODMAS and going by the options

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

Given Equation: $25*5*10*2*4*7$

Interchanging * with signs

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

$$\Rightarrow 25 \times 5 \div 10 - 2 + 4 = 7$$

$$\Rightarrow 25 \times 0.5 - 2 + 4 = 7$$

$$\Rightarrow 12.5 - 2 + 4 = 7$$

$$\Rightarrow 16.7 - 2 = 7$$

$$\Rightarrow 14.7 = 7$$

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

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

$$\Rightarrow 25 - 5 + 10 \div 2 \times 4 = 7$$

$$\Rightarrow 25 - 5 + 5 \times 4 = 7$$

$$\Rightarrow 25 - 5 + 20 = 7$$

$$\Rightarrow 45 - 5 = 7$$

$$\Rightarrow 40 = 7$$

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

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

$$\Rightarrow 25 \div 5 + 10 - 2 \times 4 = 7$$

$$\Rightarrow 5 + 10 - 2 \times 4 = 7$$

$$\Rightarrow 5 + 10 - 8 = 7$$

$$\Rightarrow 15 - 8 = 7$$

$$\Rightarrow 7 = 7$$

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

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

$$\Rightarrow 25 \div 5 \times 10 - 2 + 4 = 7$$

$$\Rightarrow 5 \times 10 - 2 + 4 = 7$$

$$\Rightarrow 50 - 2 + 4 = 7$$

$$\Rightarrow 54 - 2 = 7$$

$$\Rightarrow 52 = 7$$

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

Therefore, only option(3) satisfies the above equation.

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

34. Answer: d

Explanation:

LOGIC: Every consonants is coded as its positional value while the vowels are coded as twice of their positional value.

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

'SKATE' = '191122010'

S = 19

K = 11

A = 2(twice of its value)

T = 20

E = 10(twice of its value)

'ROLLER' = '183012121018'.

R = 18

O = 30(twice of its value)

L = 12

L = 12

E = 10(twice of its value)

R = 18

'SLIDE' = ?

S = 19

L = 12

I = 18 (twice of its value)

D = 4

E = 10 (twice of its value)

'SLIDE' = '191218410'

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

35. Answer: d

Explanation:

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

"ENSURE" = "FPVTPB"

"EQUITY" = "FSXHRV"

"FINGER" = '?'

Here, the following logic is used

5	14	19	21	18	5
E	N	S	U	R	E
+1 ↓	+2 ↓	+3 ↓	-1 ↓	-2 ↓	-3 ↓
6	16	22	20	16	2
F	P	V	S	P	B
5	17	21	9	20	25
E	Q	U	I	T	Y
+1 ↓	+2 ↓	+3 ↓	-1 ↓	-2 ↓	-3 ↓
6	19	24	8	18	22
F	S	X	H	R	V
6	9	14	7	5	18
F	I	N	G	E	R
+1 ↓	+2 ↓	+3 ↓	-1 ↓	-2 ↓	-3 ↓
7	11	17	6	3	15
G	K	Q	F	C	O

From the above image, '?' will be coded as ' GKQFCO'

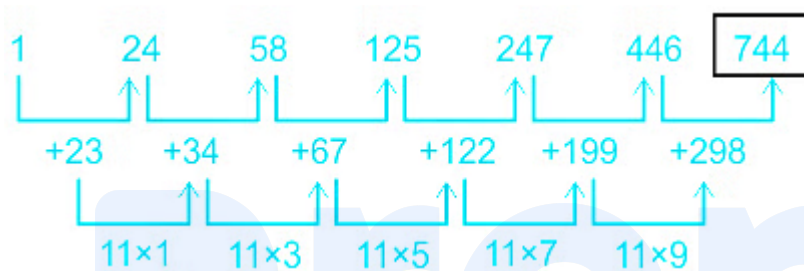
Hence, the correct answer is option(4).

36. Answer: c

Explanation:

The correct answer is option(3)

Here, the following logic is used



Therefore, '?' will be replaced by '744'.

Hence, the correct answer is option(3).

37. Answer: a

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

15th October 2008 = Wednesday

15th October 2009 = Thursday

15th October 2010 = Friday

15th October 2011 = Saturday

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.

15th October 2012 = Monday (Leap year)

14th October 2012 = Sunday (One day before 15th October 2012)

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

38. Answer: b

Explanation:

Here, first and second letter interchanged their positions, third and fourth letter interchanged their positions and fifth and sixth interchanged their positions.



Therefore, "MOBILE" will be written as "OMIBEL"

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

39. Answer: c

Explanation:

Here, the following pattern is used.

When we multiply first number with 3 and add 1, we get the second number.

First number $\times 3 + 1 =$ Second number

First pair = $18 \times 3 + 1 = 54 + 1 = 55$

Second pair = $28 \times 3 + 1 = 84 + 1 = 85$

Third pair = $36 \times 3 + 1 = 108 + 1 = 109$

Therefore, '?' will be replaced by '109'.

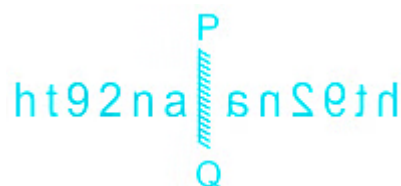
Hence, the correct answer is **option(3)**

40. Answer: c

Explanation:

The correct answer is option(3)

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.

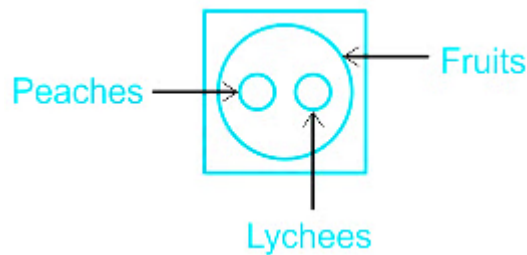


Hence, the correct answer is **option(3)**.

41. Answer: d

Explanation:

Peaches and Lychees both are fruits but are different from each other.



Hence, the correct answer is option(4).

42. Answer: c

Explanation:

The correct answer is option(3)

By using BODMAS and going by the options

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

Given Equation:- $17*18*6*5*2*10$

Interchanging * with signs

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

$$\Rightarrow 17 \times 18 - 6 \div 5 + 2 = 10$$

$$\Rightarrow 17 \times 18 - 1.2 + 2 = 10$$

$$\Rightarrow 136 - 1.2 + 2 = 10$$

$$\Rightarrow 138 - 1.2 = 10$$

$$\Rightarrow 136.8 = 10$$

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

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

$$\Rightarrow 17 \times 18 - 6 + 5 \div 2 = 10$$

$$\Rightarrow 17 \times 18 - 6 + 2.5 = 10$$

$$\Rightarrow 306 - 6 + 2.5 = 10$$

$$\Rightarrow 308.5 - 6 = 10$$

$$\Rightarrow 302.5 = 10$$

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

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

$$\Rightarrow 17 + 18 \div 6 - 5 \times 2 = 10$$

$$\Rightarrow 17 + 3 - 5 \times 2 = 10$$

$$\Rightarrow 17 + 3 - 10 = 10$$

$$\Rightarrow 20 - 10 = 10$$

$$\Rightarrow 10 = 10$$

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

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

$$\Rightarrow 17 + 18 \times 6 \div 5 - 2 = 10$$

$$\Rightarrow 17 + 18 \times 1.2 - 2 = 10$$

$$\Rightarrow 17 + 21.6 - 2 = 10$$

$$\Rightarrow 38.6 - 2 = 10$$

$$\Rightarrow 36.6 = 10$$

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

Therefore, only option(3) satisfies the above equation.

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

43. Answer: c

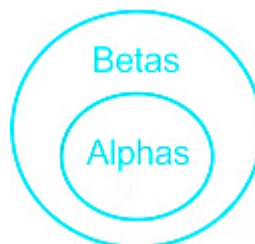
Explanation:

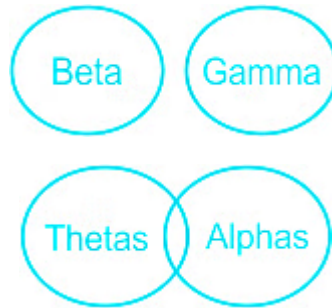
Statements:

All 'alphas' are 'betas'.

No 'beta' is a 'gamma'.

Some 'thetas' are 'alphas'.





Conclusions:

- I. Some gammas are alphas.
- II. Some thetas are betas.
- III. No alpha is a gamma.

Conclusion I : False. Since all alphas are betas and no beta is gamma, that means no gamma is alphas. And conclusion I does not follow.

Conclusion II : True. All alphas are betas and some alphas are thetas, that means some thetas are betas as well. And conclusion II follows

Conclusion III : True. Since all alphas are betas and no beta is gamma, that means no alpha is gamma. And conclusion III follows

Therefore, **only conclusion II and conclusion III follow.**

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

44. Answer: d

Explanation:

Here, the following logic is followed

$$\begin{array}{cccccc}
 1778 & 1609 & 1465 & 1344 & 1244 & 1163 \\
 \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\
 & -(13)^2 & & -(12)^2 & & -(11)^2 & & -(10)^2 & & -(9)^2
 \end{array}$$

$$1778 - (13 \times 13) = 1778 - 169 = 1609$$

$$1609 - (12 \times 12) = 1609 - 144 = 1465$$

$$1465 - (11 \times 11) = 1465 - 121 = 1344$$

$$1344 - (10 \times 10) = 1344 - 100 = 1244$$

$$1244 - (9 \times 9) = 1244 - 81 = 1163$$

Therefore, '?' will be replaced by '1163'

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

45. Answer: a

Explanation:

By using BODMAS and going by the options

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

Given Equation :- $17*4*63*7*21*3*59$

Interchanging * with signs

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

$$\Rightarrow 17 \times 4 + 63 \div 7 - 21 + 3 = 59$$

$$\Rightarrow 17 \times 4 + 9 - 21 + 3 = 59$$

$$\Rightarrow 68 + 9 - 21 + 3 = 59$$

$$\Rightarrow 80 - 21 = 59$$

$$\Rightarrow 59 = 59$$

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

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

$$\Rightarrow 17 = 4 - 63 \times 7 + 21 - 3 \div 59$$

$$\Rightarrow 17 = 4 - 63 \times 7 + 21 - 0.0508$$

$$\Rightarrow 17 = 4 - 441 + 21 - 0.0508$$

$$\Rightarrow 17 = 25 - 441 - 0.0508$$

$$\Rightarrow 17 = -416.0508$$

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

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

$$\Rightarrow 17 - 4 \times 63 + 7 = 21 \div 3 - 59$$

$$\Rightarrow 17 - 4 \times 63 + 7 = 7 - 59$$

$$\Rightarrow 17 - 252 + 7 = -52$$

$$\Rightarrow -252 + 24 = -52$$

$$\Rightarrow -228 = -52$$

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

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

$$\Rightarrow 17 = 4 - 63 \times 7 + 21 \div 3 - 59$$

$$\Rightarrow 17 = 4 - 63 \times 7 + 7 - 59$$

$$\Rightarrow 17 = 4 - 441 + 7 - 59$$

$$\Rightarrow 17 = 11 - 441 - 59$$

$$\Rightarrow 17 = 11 - 500$$

$$\Rightarrow 17 = - 489$$

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

Therefore, only option(1) satisfies the above equation.

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

46. Answer: a

Explanation:

Here, the following logic is applied,

$$27 : 81 = (27 \div 3)^2 = 9^2 = 81$$

$$18 : 36 = (18 \div 3)^2 = 6^2 = 36$$

$$33 : ? = (33 \div 3)^2 = 11^2 = 121$$

Therefore, '?' will be replaced by '121'.

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

47. Answer: c

Explanation:

Correct answer is an **option(3)**

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 the top and bottom will remain the same.



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

48. Answer: d

Explanation:

Given:- GOWB, MVEK, SCMT, ?, EQCL

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

Here, the following logic is used.

$$\begin{aligned}
 &G (7) \xrightarrow{+6} M (13) \xrightarrow{+6} S (19) \xrightarrow{+6} Y (25) \xrightarrow{+6} E (5) \\
 &O (15) \xrightarrow{+7} V (22) \xrightarrow{+7} C (3) \xrightarrow{+7} J (10) \xrightarrow{+7} Q (17) \\
 &W (23) \xrightarrow{+8} E (5) \xrightarrow{+8} M (13) \xrightarrow{+8} U (21) \xrightarrow{+8} C (3) \\
 &B (2) \xrightarrow{+9} K (11) \xrightarrow{+9} T (20) \xrightarrow{+9} C (3) \xrightarrow{+9} L (12)
 \end{aligned}$$

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

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

49. Answer: d

Explanation:

By using BODMAS and going by the options

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

Given equation :- $25 * 3 * 5 * 15 * 1$

Interchanging * with signs

Option(1) =, +, +, +

$$\Rightarrow 25 = 3 + 5 + 15 + 1$$

$$\Rightarrow 25 = 24$$

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

Option(2) +, =, +, -

$$\Rightarrow 25 + 3 = 5 + 15 - 1$$

$$\Rightarrow 28 = 25 - 1$$

$$\Rightarrow 28 = 24$$

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

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

$$\Rightarrow 25 \div 3 \times 5 \times 15 = 1$$

$$\Rightarrow 8.33 \times 5 \times 15 = 1$$

$$\Rightarrow 624.75 = 1$$

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

Option(4) $\times, =, \times, \times$

$$\Rightarrow 25 \times 3 = 5 \times 15 \times 1$$

$$\Rightarrow 75 = 75$$

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

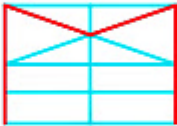
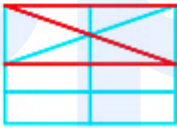
Only option(4) satisfies the above equation

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

50. Answer: c

Explanation:

Let's check every option one by one

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

From the above, it is clear that only option (3) has embedded in the question figure.
Hence, the correct answer is **option(3)**

51. Answer: a

Explanation:

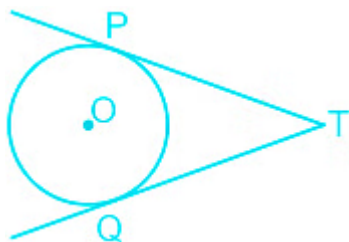
Given:

TP = 7 cm

Concept used:

In a circle, Tangents which meet at the same point are equal in length.

Calculation:



$$TP = 7 \text{ cm}$$

Using, Tangents which meet at the same point are equal in length.

Therefore,

$$TP = TQ = 7$$

$\therefore$ The value of TQ is 7 cm.

52. Answer: d

Explanation:

Given:

$$p^3 + 27$$

Formula Used:

$$a^3 + b^3 = (a + b)(a^2 - ab + b^2)$$

Calculation:

$$p^3 + 27$$

Rewrite the expression:

$$\Rightarrow p^3 + 3^3$$

Using, $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$

$$\Rightarrow p^3 + 3^3 = (p + 3)(p^2 - 3p + 9)$$

$\therefore$ The correct answer is option is 4.

53. Answer: a

Explanation:

Given:

The area of the square = $9m^2 + 12m + 4$ sq. unit

Formula:

The area of the square = a^2

Where, a = Side or length of the square

Calculation:

From the formula

$$a^2 = 9m^2 + 12m + 4 \text{ (given)}$$

$$\Rightarrow a^2 = (3m + 2)^2$$

Side of length of the square is $3m + 2$ unit.

54. Answer: b

Explanation:

Formula Used:

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

Calculation:

$$a^2 - 1 - 2x - x^2$$

$$\Rightarrow a^2 - (1 + 2x + x^2)$$

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

$$\Rightarrow a^2 - (1 + 2x + x^2) = (a + 1 + x)(a - 1 - x)$$

$\therefore$ The correct option is 2 i.e. $(a + 1 + x)(a - 1 - x)$.

55. Answer: d

Explanation:

Given:

$$a = 10$$

Concept used:

$$\text{Area} = A = \frac{3\sqrt{3}}{2} \times a^2$$

Solution:

$$\text{Area} = \frac{3\sqrt{3}}{2} \times 10^2$$

$$\Rightarrow 150\sqrt{3} \text{ cm}^2$$

Hence, the correct option is 4.

56. Answer: d

Explanation:

Given :

$$\cos(x - y) = \frac{\sqrt{3}}{2}$$

$$\sin(x + y) = 1$$

Concept Used:

	0°	30°	45°	60°	90°
sin	0	1/2	1/√2	√3/2	1
cos	1	√3/2	1/√2	1/2	0
tan	0	1/√3	1	√3	∞
cosec	∞	2	√2	2/√3	1
sec	1	2/√3	√2	2	∞
cot	∞	√3	1	1/√3	0

Calculation :

According to the concept used,

$$\text{If } \cos(x - y) = \frac{\sqrt{3}}{2}$$

$$\Rightarrow x - y = 30^\circ \dots (1)$$

$$\text{Again, } \sin(x + y) = 1$$

$$\Rightarrow x + y = 90^\circ \dots (2)$$

Now add 1 & 2

$$\Rightarrow 2x = 120^\circ$$

$$\Rightarrow x = 60^\circ$$

Similarly, the value of $y = 30^\circ$.

$\therefore$ The value of x and y is $60^\circ, 30^\circ$ respectively.

57. Answer: d

Explanation:

Given:

Diameter is 21 cm.

Concept used:

Volume of Sphere = $4\pi r^3/3$

Calculations:

Diameter of the Sphere = $21/2 = 10.5$ cm

Volume of the Sphere

$\Rightarrow 4\pi r^3/3$

$\Rightarrow 4 \times (22/7) \times (10.5)^3/3$

4851 cm³

Hence, the required value is 4851 cm³.

58. Answer: d Your Personal Exams Guide

Explanation:

Given:

Edges of three cubes of metal are 6, 8, 10 cm respectively

Formula Used:

The volume of the cube = (Side)³

Calculation:

The volume of cube 1 = $(6)^3$ cm³

The volume of cube 2 = $(8)^3 \text{ cm}^3$

The volume of cube 3 = $(10)^3 \text{ cm}^3$

⇒ Total volume = $216 + 512 + 1000 = 1728 \text{ cm}^3$

The volume of new cube = 1728 cm^3

⇒ $1728 = (\text{Side})^3$

⇒ Side = $\sqrt[3]{12 \times 12 \times 12}$

⇒ Side = 12 cm

∴ The edge of the new cube is 12 cm.

The correct option is 4 i.e. 12 cm

59. Answer: a

Explanation:

Given:

36% of items went bad and total profit must be 28 %.

Concept used:

Profit = SP - CP

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

S.P. = $(\text{C.P.} \times 100) \times (100 + \text{Profit \%})$,

where S.P. → Selling Price , C.P. → Cost Price

Calculation:

Let the cost of one item is 1 Rs.

Therefore, cost of 100 items will be 100 Rs.

As 36% went bad, so remaining items are $100 - 36 = 64$.

Note that total over all profit must be 28 %.

$$\Rightarrow \text{S.P.} = (\text{C.P.} \times 100) \times (100 + \text{Profit \%}),$$

$$\Rightarrow \text{S.P.} = (100 \times 100) \times (100 + 28 \%),$$

$$\Rightarrow 128 \text{ Rs.}$$

Now 64 must items must be sold in 128

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

$$\Rightarrow 128 - 64$$

$$\Rightarrow 64$$

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

$$\Rightarrow 64 / 64 \times 100$$

$$\Rightarrow 100\%$$

$\therefore$ The correct option is 1.

60. Answer: c

Explanation:

Given:

6 men or 2 women or 4 boys can finish the work in 77 days

Concept used:

Total number of days $\times$ total number of workers = Total work done

Calculation:

As per the question,

The ratio of efficiency of men and women.

$$\Rightarrow 6m = 2w$$

$$\Rightarrow m/w = 1/3$$

$$\Rightarrow m : w = 1 : 3 \dots (1)$$

Similarly

The ratio of efficiency of women and boys.

$$\Rightarrow 2w = 4b$$

$$\Rightarrow w/b = 2/1$$

Multiply the first ratio with 2 to make the ratio equal.

$$\Rightarrow m : w = 2 : 6 \dots (3)$$

Multiply the second ratio with 3 to make the ratio equal.

$$\Rightarrow w : b = 6 : 3 \dots (4)$$

By comparing 3 & 4,

The ratio efficiency of $m : w : b$ is:

$$\Rightarrow 2 : 6 : 3$$

Total work done is:

$$\Rightarrow 6(m) \times 77 \text{ [Total work = efficiency} \times \text{time]}$$

$$\Rightarrow 6 \times (2) \times 77$$

$$\Rightarrow 924$$

Total work done by 1 man, 1 woman, 1 boy is

$$\Rightarrow 924 / (2 + 6 + 3)$$

$$\Rightarrow 84 \text{ days}$$

$\therefore$ 84 days will it take for **1 man, 1 woman, and 1 boy** to finish work.

61. Answer: b

Explanation:

Given:

Harsh travels from Nashik to Daman t for 1 hr with a speed of 50 km/h,

Again 3 hr with a speed of 60 km/h

Concept used:

$$\text{Average speed} = (\text{Total distance}) / (\text{Total time})$$

Calculation:

$$\Rightarrow \text{Average speed} = (1 \times 50 + 3 \times 60) / (1 + 3)$$

$$\Rightarrow \text{Average speed} = (50 + 180) / 4 = 57.5 \text{ km/h}$$

$\therefore$ The average speed of Harsh is 57.5 km/h.

62. Answer: b

Explanation:

Concept used:

A number is divisible by 24 if it is divisible by both 3 and 8.

Formula used:

Divisibility rule of 3:

A number is divisible by 3 if the sum of the digits of the number is divisible by 3.

Divisibility rule of 8:

The last 3 digits must be divided by 8.

Calculation:

In 569896,

Sum of digits = $5 + 6 + 9 + 8 + 9 + 6$

$\Rightarrow 43$

Here, the sum is not divisible by 3, the number 569896 is not divisible by 24.

In 478656 ,

Sum of digits = $4 + 7 + 8 + 6 + 5 + 6$

$\Rightarrow 36$

Here, the sum is divisible by 3 , the number 478656 may be divisible by 24 .

Now check for the last 3 digits of 478656 is divisible by 8.

Note that $656/8 = 82$.

So, the number 478656 is divisible by 24.

$\therefore$ The number 478656 is divisible by 24.

63. Answer: b

Explanation:

Formula Used:

$$\text{Discount\%} = (\text{Discount}/\text{cost price}) \times 100$$

Calculation:

Let the marked price of 1 article = 100

$$\Rightarrow \text{MP of 4 articles} = 100 \times 4 = 400$$

Actual amount paid if discount is not given = MP of 18 articles = 1800

$$\Rightarrow \text{Discount \%} = (400/1800) \times 100 = 22\frac{2}{9}\%$$

$\therefore$ The correct answer is $22\frac{2}{9}\%$

★ Shortcut Trick

4 toys are free out of $(14 + 4) = 18$ toys

$$\text{Discount \%} = 4/18 = 2/9 = 22\frac{2}{9}\%$$

64. **Answer: c**

Explanation:

Given:

The number of students to vote for their favorite colour.

Calculation:

The number of students to vote for their favorite red is 10.

Similarly, find all the students from the graph.

$$\text{Total number of students are} = 10 + 7 + 7 + 6 + 4 + 7 + 5 + 6 = 52$$

$\therefore$ The correct answer is 52.

65. Answer: b

Explanation:

Given:

There are two candidates Ram and Shyam who appeared in an election. The candidate got 30% of the total votes and lost by 900 votes.

Formula:

If A got $a\%$ votes and B got $b\%$ votes, difference in the votes = $(a - b) \%$ of Total votes polled

Calculation:

Let the total votes voted be $100x$

The candidate got 30% of the total votes = $30x$

Winning candidate got = $100x - 30x = 70x$ votes

As per the question,

$$\Rightarrow 30x + 900 = 70x$$

$$\Rightarrow x = 22.50$$

Hence the total number of votes is $100x = 100 \times 22.5 = 2250$.

Note that there are 90% of the total voting list.

Let the total number of the voting list be Y .

So according to the question

$$\Rightarrow Y \times 90\% = 2250$$

$$\Rightarrow Y = 2500$$

$\therefore$ The correct answer is 2500.

66. Answer: d

Explanation:

Given:

1st Proportional(a) = 48

2nd Proportional(b) = 72

3rd Proportional(c) = 108

Formula Used:

4th Proportional(d) = $(b \times c) / a$

Calculations:

According to the formula,

$\Rightarrow$ 4th Proportional(d) = $(b \times c) / a = (72 \times 108) / 48 = 162$

$\Rightarrow$ Hence, The fourthproportion is 162.

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67. Answer: c

Explanation:

Given:

Number of girls in 5th class = 30

Number of girls in 6th class = 35

Number of girls in 8 th class = 25

Concept used:

Average = Sum of N numbers/N

Calculation:

The average number of girls studying in the 5th, 6th, and 8th grades is given by:

$$\Rightarrow \text{Average} = (30 + 35 + 25)/3$$

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

$\therefore$ The correct answer is 30.

68. Answer: a

Explanation:

Given:

Distance = 200 m

Time = 24 s

Concept Used:

Speed = Distance/Time.

$$1 \text{ m/s} = 18/5 \text{ km/hr}$$

Calculation:

$$\Rightarrow S = 200/24$$

$$1 \text{ m/s} = 5/18 \text{ km/hr}$$

$$\Rightarrow S = 200/24 \times 18/5$$

$$\therefore S = 30 \text{ km/hr.}$$

Hence, the correct answer is option 1).

69. Answer: c

Explanation:

Given:

Principal = ₹50,000

Time = 3 years

Rate of interest = 8% per annum

Interest is compounded yearly.

Concept used:

In the case of compound interest,

$$\text{Amount} = P(1 + R/100)^N$$

where

P = Principal amount

R = Rate of interest per year

N = Time in years

Calculation:

Now, the compound interest on ₹50,000 in 3 years at 8% per annum

$$\Rightarrow 50000(1 + \frac{8}{100})^3$$

$$\Rightarrow 50000(1.08)^3$$

$$\Rightarrow 62985.6 \approx ₹62986$$

∴ The Amount paid after 3 years is ₹62,986 .

70. Answer: a

Explanation:

Given:

Profit = 12%

Discount = 20%

Marked Price = ₹280

Formula Used:

$$MP/CP = (100 + \text{Profit}\%) / (100 - \text{Discount}\%)$$

Calculations:

$$MP/CP = (100 + \text{Profit}\%) / (100 - \text{Discount}\%)$$

$$\Rightarrow 280/CP = (100 + 12) / (100 - 20)$$

$$\Rightarrow 280/CP = (112) / (80)$$

$$\Rightarrow 280/CP = 7/5$$

$$\Rightarrow CP = 5/7 \times 280$$

$$\Rightarrow CP = ₹200$$

∴ The answer is ₹200.

★ Shortcut Trick

$$\text{Discount \%} = 20\% = 1/5$$

$$\text{Ratio of M.P. to S.P.} = 5 : 4 \} \times 7$$

$$\text{Profit \%} = 12\% = 3/25$$

$$\text{Ratio of C.P. to S.P.} = 25 : 28$$

So, combined ratio of C.P: S.P : M.P. = 25 : 28 : 35

$\Rightarrow 35 \text{ units} = \text{Rs. } 280$

$\Rightarrow 25 \text{ units} = (280/35) \times 25 = \text{Rs. } 200$

71. Answer: c

Explanation:

Given:

Average marks in science = 80%

Average marks in mathematics = 90%

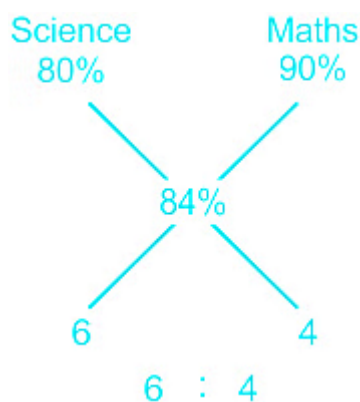
Whole average = 84%

Marks Obtained in science were 54,000.

Concept used:

Concept of Allegation.

Calculation:



The ratio of marks in Science and Mathematics is 3 : 2.

According to the question:

Let the ratio be $3x : 2x$.

The value of $3x$ is 54,000.

$$\Rightarrow 3x = 54000$$

$$\Rightarrow x = 18000$$

The value of $2x$ is

$$\Rightarrow 2 \times 18000$$

$$\Rightarrow 36000$$

$\therefore$ The Correct Answer is 36,000.

72. Answer: d

Explanation:

Given:

$$1980 \div 9 + [-77 + \{-1980 + (\frac{1}{4} \text{ of } 7920)\}]$$

Concept used:

Follow the BODMAS rule according to the table given below:

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

Calculation:

$$1980 \div 9 + [-77 + \{-1980 + (\frac{1}{4} \text{ of } 7920)\}]$$

$$\Rightarrow 1980 \div 9 + [-77 + \{-1980 + 1980\}]$$

$$\Rightarrow 220 + -77$$

$$\Rightarrow 143$$

$\therefore$ The correct answer is 143.

73. Answer: d

Explanation:

A frequency distribution is a comprehensive way to organize raw data of a quantitative variable. It shows how different values of a variable are distributed and their corresponding frequencies.

$\therefore$ option 4 is the correct answer.

74. Answer: b

Explanation:

Calculation:

Let the monthly salary of man be x .

It is given that man spends 10.5% of his daily, so, remaining balance = 89.5% of x

It is given that out of the balance, he spends 30% on the house rent, so, remaining balance = 70% of 89.5% of x

The value of this remaining balance is given as 12,000.

So, equating these remaining values, we get,

$$\Rightarrow 70/100 \times 89.5/100 \times x = 12000$$

$$\Rightarrow 0.7 \times 0.895 \times x = 12000$$

$$x = 19157.33 \text{ or } ₹19,154.$$

Hence, option 2 is correct.

75. Answer: b

Explanation:

Given:

Principal (P) = 10,000,

Rate of interest(R) = 8% & 10%,

Time (T) = 1 year

Annual Income = Rs 880

Formula used:

$$S.I. = (P \times R \times T)/100$$

Calculation:

SI on the sum of 10,000 at the rate of 8% per annum = $10000 \times 8/100$

=Rs 800

Total annual Income = Rs 880

Extra interest in 1 year = $880 - 800 = \text{Rs } 80$

$(10 - 8) = 2\%$ corresponds to Rs 80

100% corresponds to Rs 4000

Money invested on 2nd part = 4000

Money invested on 1st part = $10000 - 4000 = 6000$

∴ The sum lent on 8% is 6000.

76. Answer: b

Explanation:

The correct answer is Untouchable.

★ Key Points

- **Untouchable** is written by Mulk Raj Anand that shows the cruelty of the caste system based in the pre-independence era of India.
- That novel turned out to be his seminal debut book, **Untouchable (1935)**, about the struggles and humiliations faced by a toilet cleaner named Bakha.
- After the rather humiliating taunt about what would come to be his first novel, Anand travelled to Ireland and met poets, George Russell and W.B. Yeats.
- Mulk Raj Anand is known for **his realistic and sympathetic portrayal of the poor in India**.

★ Additional Information

- The Village is a novel by Mulk Raj Anand first published in 1939.
- This book was the first of a trilogy that included Across the Black Waters and The Sword and the Sickle.
- Across the Black Waters is an English novel by the Indian writer **Mulk Raj Anand** first published in 1939.
- It describes the experience of Lalu, a sepoy in the Indian Army fighting on behalf of Britain against the Germans in France during World War I.

77. Answer: a

Explanation:

The correct answer is Intergovernmental Panel on Climate Change (IPCC).

★ Key Points

- The **Intergovernmental Panel on Climate Change (IPCC)** was established by the United Nations Environment Programme (UNEP) and the World Meteorological Organization (WMO) in 1988.
- The establishment of the IPCC was endorsed by UN General Assembly in 1988.
- The IPCC was set up in 1988 by the World Meteorological Organization (WMO) and United Nations Environment Programme (UNEP) to **provide policymakers with regular assessments of the scientific basis of climate change, its impacts, future risks, and options for adaptation and mitigation.**

★ Additional Information

- Climate Action Network (CAN) is a global network of more than 1,800 civil society organizations in over 130 countries driving collective and sustainable action to fight the climate crisis and to achieve social and racial justice.
- International Climate Action Network (I-CAN) is a 30-month Erasmus+ funded international project to give teachers the skills, confidence, and framework to enable pupils to become effective critical thinking collaborators and active climate-conscious.
- The Global Green Growth Institute (GGGI) is a treaty-based inter-governmental international development organization headquartered in Seoul, South Korea.
- The Australian Youth Climate Coalition is a youth organization in Australia.
- When the organisation first began, the coalition consisted of 25 other youth organisations, which included the National Union of Students amongst many, however, it is now an independent organization.

78. Answer: a

Explanation:

The correct answer is Kaveri number.

★ Key Points

- The **Cauvery** is known as 'Ponni' in Tamil.
- It is the fourth-largest river (Length: 805 km) in south India. Originating in the Western Ghats at Talakaveri in Karnataka's Kodagu district, it passes through Tamil Nadu.
- **Tamil Nadu** gets **most** of its rain from the Northeast monsoon.
- The river **originates in the Nandi Hills in the Chikkaballapura district of Karnataka** and flows through Tamil Nadu before emptying into the Bay of Bengal.

★ Additional Information

- The Sutlej or Satluj River is the longest of the five rivers that flow through the historic crossroads region of Punjab in northern India and Pakistan.
- The Ravi River is a transboundary river crossing northwestern India and eastern Pakistan. It is one of five rivers associated with the Punjab region.
- The Tapti River is a river in central India located to the south of the Narmada river that flows westwards before draining into the Arabian Sea.

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79. Answer: d

Explanation:

The correct answer is Cricket

★ Key Points

- An **off break** is a type of delivery in the sport of **cricket** and is the attacking delivery of an off-spin bowler.
- Off-break bowlers are known as off-spinners.

- An off break is bowled by holding the cricket ball in the palm of the hand with the seam running across under all the fingers.

★ Additional Information

- **Football** is a family of team sports that involve, to varying degrees, kicking a ball to score a goal.
- **Hockey** is a term used to denote various types of both summer and winter team sports which originated on either an outdoor field, sheet of ice, or dry floor such as in a gymnasium.
- **Badminton** is a racquet sport played using racquets to hit a shuttlecock across a net. Although it may be played with larger teams, the most common forms of the game are "singles" and "doubles".

80. Answer: d

Explanation:

The correct answer is Premchand.

★ Key Points

- Hindi Novel Kafan is written by **Munshi Premchand**.
- Kafan (The Shroud), by Premchand, translated from Urdu and Hindi by **Frances W.Pritchett**.
- In **1936**, Premchand also published "Kafan" ("Shroud"), in which a poor man collects money for the funeral rites of his dead wife, but spends it on food and drink.
- The story Kafan, by Munshi Premchand, is a classic social-realistic tale of **downtrodden victimhood**.

★ Additional Information

- **Sumitranandan Pant** was an Indian poet. He was one of the most celebrated 20th-century of Hindi language and was known for romanticism in his poems which were inspired by nature, people, and beauty within.

- **Mahadevi Varma** was an Indian Hindi-language poet, essayist, sketch story writer, and eminent personality of Hindi literature.
- **Jaishankar Prasad** was a prominent figure in modern Hindi literature as well as Hindi theatre. Prasad was his pen name. He was also known as a Chhayavadi poet.

81. Answer: c

Explanation:

The correct answer is Liquidity trap.

★ Key Points

- A **liquidity trap** is an economic situation where people hoard financial capital instead of investing or consuming it as the **interest rates are low** and **savings rates are high** which renders the monetary policy ineffective.
- **Speculative demand** for money is inversely related to the rate of interest i.e. **higher the rate of interest smaller** will be speculative demand for money and vice versa.
- Therefore curve of speculative demand for money is **downward sloping to right**.
- A liquidity trap is caused **when people hoard cash** because they expect an adverse event such as deflation, insufficient aggregate demand, or war.

★ Additional Information

- **The cash crunch** is a term pretty common among start-ups and budding businesses.
- A cash crunch **happens when a company runs low on cash**; this in a way impacts the operations of the business.
- The PES for perfectly elastic supply is infinite, where **the quantity supplied is unlimited at a given price, but no quantity can be supplied at any other price**.
- The velocity of money is **a measurement of the rate at which money is exchanged in an economy**.

82. Answer: c

Explanation:

The correct answer is Rickey Kej.

★ Key Points

- City-based musician **Ricky Kej** walked away with a **Grammy** for his **collaborative album Winds Of Samsara** with **South African flautist Wouter Kellerman** for the Best New Age Album category at the **57th Annual Grammy Awards in Los Angeles**.
- Kej also serves as a **UNESCO – MGIEP "Global Ambassador for Kindness"**, **UNICEF Celebrity Supporter**, and is an ambassador for the **Earth Day Network**.
- In 2020, Kej was named a **GQ Hero 2020** by **GQ magazine**.
- Kej is credited with over 3,500 placements for **radio and television jingles**.



★ Additional Information

- **Alokananda Dasgupta** is a contemporary music composer.
- **Sahaya Sheelan Shadrach** known by his screen name **Sadhu Kokila**, is an Indian musician, actor, comedian, film director and producer, and an occasional screenwriter and lyricist who **works in Kannada cinema**.
- **Stephen Devassy** is an Indian musician hailing from Palakkad, Kerala.

83. Answer: a

Explanation:

The correct answer is Gautam Adani.

★ Key Points

- **Gautam Shantilal Adani** is an Indian billionaire industrialist.
- He is the **chairman and founder of the Adani Group**, an Ahmedabad-based **multinational conglomerate** involved in port development and operations in India.
- Adani is also the **president of the Adani Foundation**, which is primarily led by his wife, Priti Adani.
- He has seven siblings. His family was **involved in the textile business**.
- **Infrastructure tycoon** Gautam Adani controls Mundra Port, India's largest, in his home state of Gujarat.



★ Additional Information

- **Narendra Damodardas Modi** is an Indian politician serving as the 14th and current prime minister of India since 2014.
- **Mamata Banerjee** is an Indian politician who is serving as the **eighth and current chief minister of the Indian state of West Bengal since 20 May 2011**, the first woman to hold the office.
- **Adar Poonawalla** (born 14 January 1981) is an Indian **billionaire businessman**. He is the chief **executive officer (CEO)** of the Serum Institute of India.

84. Answer: d

Explanation:

The correct answer is Ustad Bundu Khan.

★ Key Points

- Ustad Binda Khan was the **maestro of Sarangi**.
- Sarangi has a **hollow body and is made of teak wood** adorned with ivory inlays.
- Bundu Khan played the sarangi from **All India Radio, Delhi Station** when it first started **broadcasting in 1935**.
- He served the **princely court of Indore for 27 years** as a court musician.



★ Additional Information

- Trippunithura Narayanaier Krishnan was an Indian Carnatic music violinist.
- Thanjavur Brinda (1912–1996) was one of the representatives of the Veenai Dhanammal school of Carnatic Music.
- Thodur Madabusi Krishna is an Indian **Carnatic vocalist, writer, activist, author and Ramon Magsaysay awardee**.

85. Answer: c

Explanation:

The correct answer is Pingali Venkayya.

★ Key Points

- Prime Minister Narendra Modi **paid homage** to the designer of the Indian National flag, **Pingali Venkayya** on his birth anniversary.
- **Pingali Venkayya** was an **Indian freedom fighter and a Gandhian**.
- He was the **designer of the flag** on which the **Indian National Flag** was based.
- He was also a **lecturer, author, geologist, educationalist, agriculturist, and polyglot**.



★ Additional Information

- **Bhikaiji Rustom Cama** or simply, **Madam Cama**, was one of the **prominent figures** in the Indian independence movement.
- **Bankim Chandra Chatterjee** CIE was an Indian novelist, poet, and journalist.
- **Annie Besant** was a British socialist, theosophist, women's rights activist, writer, orator, political party member, educationist, and philanthropist.

86. Answer: a

Explanation:

The correct answer is 51.09%.

★ Key Points

- The use of land for agriculture depends on soil type, irrigation facilities, and climate. In India, about **51.09% of the land is under cultivation**, **21.81% under forest**, and **3.92% under pasture**.

- Agricultural land (% of land area) in India was reported at **60.43 %** in 2018, according to the World Bank collection of development indicators, compiled from officially recognized sources.
- Agricultural lands in India were estimated to be **60.45%** in 2015. Agriculture is the principal means of income in India.
- Agricultural lands refer to the lands that are suitable for cultivation, that is arable land.

★ Additional Information

- **National Institute of Hydrology** is an autonomous society under the Ministry of Water Resources, River Development & Ganga Rejuvenation, Government of India and has been functioning as a **research Institute in the area of hydrology and water resources in the country since December 1978 in Roorkee City.**

87. Answer: c

Explanation:

The correct answer is Padma Shri

★ Key Points

- **Sonal Man Singh** has been nominated by the President of India to become a Member of Parliament, Rajya Sabha.
- She is the youngest recipient of Padma Bhushan in 1992 and Padma Vibhushan in 2003.
- Sonal Mansingh is an Indian classical dancer and Guru Bharatanatyam and Odissi dancing style.

★ Additional Information

- Sangeet Natak Akademi Puraskar is an award given by the Sangeet Natak Akademi, India's National Academy of Music, Dance & Drama.
- The award is given in three categories, namely:
 - Padma Vibhushan for exceptional and distinguished service.

- Padma Bhushan for distinguished service of a high order.
- Padma Shri for **distinguished service**.

88. Answer: c

Explanation:

The correct answer is Bismillah Khan.

★ Key Points

- **Bismillah Khan** played the shehnai on **15 August 1947** at the **Red Fort**.
- He was the first Indian to greet the nation with his musical instrument.
- This event was historic because We got independence on that day.
- On his **102nd birthday**, Google honoured Bismillah Khan with a **Google doodle**.

★ Additional Information

- **Ustad Ali Baksh Jarnail Khan** was an Indian classical singer. Together with his friend Fateh Ali Khan, he founded the Patiala Gharana in the 19th century.
- **Anant Lal**, often referred to by the title Pandit, was an Indian classical musician who played the shehnai.
- He worked for All India Radio and played with artists such as **Ravi Shankar and Debu Chaudhuri** in addition to recording under his own name.

89. Answer: b

Explanation:

The correct answer is M C Marry kom.

★ Key Points

- **Unbreakable: An Autobiography** is the autobiography of the unbreakable Mary Kom who never let anything come in between her and her quest for winning.

- She worked hard and showed the world that with mere hard work and utmost dedication it is possible for even a farmer's daughter to become the world's leading woman boxer.
- Mangte Chungneijang Mary Kom OLY is an Indian amateur boxer, politician, and incumbent Member of Parliament, Rajya Sabha.
- She is the only Indian female boxer to have qualified for the 2012 Summer Olympics, competing in the flyweight (51 kg) category.

★ Additional Information

- The book "**The Test of My Life: From Cricket to Cancer and Back**" is an autobiography of Yuvraj Singh.
- **A Shot at History: My Obsessive Journey to Olympic Gold** is a 2011 autobiography of Indian 2008 Summer Olympics Gold medalist Abhinav Bindra.
- **Golden Girl: The Autobiography of P.T. Usha** is the Autobiography of PT Usha.

90. Answer: d

Explanation:

The correct answer is Tennis.

★ Key Points

- The Davis Cup is the World Cup of **tennis**.
- It is the largest annual international team competition in world sport and was founded in 1900 by Dwight Davis.
- The Davis Cup, the **tennis equivalent of the football World Cup**, was named **after American collegian Dwight Filley Davis**, who came up with the idea to start a challenging tennis match between the USA and Great Britain.
- First played in 1900, it was originally called the International Lawn Tennis Trophy.

★ Additional Information

- **Thomas Cup** , trophy signifying world supremacy in the sport of badminton.
- In India, **Indian Super League** is related to Indian football.
- **Beighton Cup** is related to Hockey.

91. Answer: d

Explanation:

The correct answer is Substances that are steam volatile.

★ Key Points

- Steam distillation is employed for those **liquids which are insoluble in water, contain non-volatile impurities, and are steam volatile.**
- Steam distillation is widely used in the manufacturing of **essential oils, for instance, perfumes.**
- This method uses a plant material that consists of **essential oils.**
- **Mainly orange oil** is extracted on a large scale in industries using this method.
- Steam distillation is used for **the isolation of antioxidant and antimicrobial compounds from herbs and species such as clove, rosemary, sage, and thyme.**



★ Additional Information

- **Coloured components** of a mixture can be separated by a technique called **chromatography.**
- **Charge-induced separation** occurs when a charged object is brought close to a neutral one.

- The **coarse substance** is **chalk powder**. The powder increases the friction between the bar and the gymnast's hands.

92. Answer: c

Explanation:

The correct answer is Hydrochloric acid.

★ Key Points

- The **hydrochloric acid** in the **gastric juice breaks down the food** and the digestive enzymes split up the proteins.
- The acidic gastric juice also **kills bacteria**.
- It also **eliminates bacteria and viruses** in the stomach, **protecting your body from infection**.
- Low levels of hydrochloric acid can have a **profound impact on the body's ability to properly digest and absorb nutrients**.

★ Additional Information

- Nitric Acid is **a strong acid with the chemical formula HNO_3** .
- It is also known as the **spirit of niter and aqua fortis**.
- **Acetic acid** is also known as **ethanoic acid, ethylic acid, vinegar acid, and methane carboxylic acid**; it has the chemical formula of CH_3COOH .
- **Sulfuric acid or sulphuric acid, known in antiquity as oil of vitriol**, is a mineral acid composed of the elements sulfur, oxygen, and hydrogen, with the molecular formula H_2SO_4 .

93. Answer: a

Explanation:

The correct answer is it can kill beneficial insects like honey bees.

★ Key Points

- DDT is **very insoluble in water and very persistent in the environment, making it a highly polluting hazard.**
- Its half-life has been reported to be between **2 and 15 years.**
- DDT (dichloro-diphenyl-trichloroethane) was developed as the first of the **modern synthetic insecticides** in the 1940s.
- It was initially used with great effect to **combat malaria, typhus, and other insect-borne human diseases among both military and civilian populations.**

★ Additional Information

- Insecticides are **chemicals used to control insects by killing them or preventing them from engaging in undesirable or destructive behaviours.**
- Organic pesticides are usually considered as those **pesticides that come from natural sources.**
- Synthetic **contact insecticides** are now the **primary agents of insect control.**
- Inorganic insecticides are **of mineral origin, mainly compounds of antimony, arsenic, barium, boron, copper, fluorine, mercury, selenium, sulfur, thallium, and zinc, and elemental phosphorus and sulfur.**

94. Answer: b

Explanation:

The correct answer is Begum Akhtar.

★ Key Points

- The legendary Begum Akhtar was a doyen of Hindustani classical music, particularly in the ghazal genre .
- Her musical tradition was so unique that she came to be associated with her own distinct style of singing.
- She was rightly called the '**Mallika-e-Ghazal**'.
- **Akhtari Bai Faizabadi** , also known as Begum Akhtar, was an Indian singer and actress.

- She is regarded as one of the greatest singers of **ghazal, Dadra, and thumri** genres of Hindustani classical music.

★ Additional Information

- **Chitra Singh** is an Indian ghazal singer.
- She, alongside her husband, **Jagjit Singh**, popularized the ghazal genre . Respectfully known as the "**king and queen of the Ghazal world**."
- **Suraiya Jamal Sheikh** , popularly known by the mononym **Suraiya**, was a popular actress and playback singer in India's Hindi-language films.
- **Amrutha Suresh** is an Indian singer, composer, songwriter, and radio jockey.

95. Answer: a

Explanation:

The correct answer is Kelucharan Mohapatra.

★ Key Points

- **Kelucharan Mohapatra** (8 January 1926 – 7 April 2004) was a legendary Indian classical dancer, guru , and exponent of **Odissi dance** , who is credited with the revival and popularizing of this classical dance form in the **20th century**.
- He is the first person to receive the Padma Vibhushan from Odisha.
- A noted Sanskrit poet of India writes on this *Guru: Saango-paanga-subhangi-laasya-madhuram samteerna-nrutyarnavam*, which translates as – "Each fraction of his dancing body leads to paramount sweetness, through miraculous poses and postures. In fact, Guru **Kelucharan Mohapatra** crossed the ocean of styles.



★ Additional Information

- **Sujata Mohapatra** is an Indian classical dancer and teacher of the Odissi dancing style.
- **Guru Ramani Ranjan Jena** had his initial training in dance and music at the age of 11 from a local teacher.
- **Guru Sudhakar Sahoo** is 86 and still dances on stage. **The oldest Odissi performer in the world today**, he also regularly travels across Odisha and even far-off cities like Ahmedabad and New Delhi to teach dance.

96. Answer: c

Explanation:

The correct answer is Amoeba.

★ Key Points

- In **Amoeba**, the cell membrane help in **engulfing the food** during the process called **endocytosis**.
- Amoeba is **a unicellular organism that has the ability to change its shape**.
- They are usually found in **water bodies such as ponds, lakes, and slow-moving rivers**.
- Sometimes, these **unicellular organisms** can also make their way inside the human body and cause **various illnesses**.
- Amoebae do not form a single **taxonomic group**; instead, they are found in every major **lineage of eukaryotic organisms**.



★ Additional Information

- Yeast is a **single-cell organism**, called *Saccharomyces cerevisiae*, which needs food, warmth, and moisture to thrive.
- Volvox is a **genus of green algae** containing around 20 species of freshwater algae.
- Spirogyra, (genus Spirogyra), any member of a genus of some 400 species of **free-floating green algae** (division Chlorophyta) found in freshwater environments around the world.
- A spirogyra is a **plant** because of the presence of chlorophyll which allows it to make its own food.

97. Answer: d

Explanation: Your Personal Exams Guide

The correct answer is Padma Subrahmanyam.

★ Key Points

- **Padma Subrahmanyam** (born 4 February 1943, in Madras), is an Indian classical **Bharata Natyam** dancer.
- She is also a research **scholar, choreographer, teacher, Indologist, and author**.
- She received the honours of Padma Shri in 1981 and Padma Bhushan in 2003.
- She is **famous in India too abroad**; several films and documentaries have been made in her honour by countries such as Japan, Australia, and Russia.
- She is famous as the **developer and founder** of the dance form **Bharata Nrithyam**.

★ Additional Information

- **Savitha Sastry** is an Indian dancer and choreographer best known as an exponent of **Bharatanatyam** .
- **Mallika Sarabhai** is an activist and Indian classical dancer and actress from Ahmedabad, Gujarat, India.
- **Rukmini Devi Arundale** was an Indian **theosophist, dancer, and choreographer** of the Indian classical dance form of Bharatanatyam, and an activist for animal welfare.

98. Answer: d

Explanation:

The correct answer is 2010.

★ Key Points

- Mallika Sarabhai Padma Bhushan Awarded In **2010**.
- Daughter of a classical dancer **Mrinalini Sarabhai** and renowned space scientist **Vikram Sarabhai**, Mallika is an accomplished **Kuchipudi** and **Bharatanatyam** dancer and performer.
- Mallika Sarabhai has been honored with several awards.
- Mallika Sarabhai (born 9 May 1954) is an activist and Indian **classical dancer and actress** from Ahmedabad, Gujarat, India.



★ Additional Information

- The Padma Vibhushan is the **second-highest civilian award** of the Republic of India, after the Bharat Ratna.
- Instituted on 2 January 1954, the award is given for "**exceptional and distinguished service**".
- All persons without distinction of **race, occupation, position or sex** are eligible for these awards.

99. Answer: c

Explanation:

The correct answer is Neeraj Chopra.

★ Key Points

- Neeraj Chopra was nominated for the prestigious '**Laureus World Breakthrough of the Year**' award 2022 for his historic gold medal win at the Tokyo 2020 Olympics.
- Neeraj Chopra is an **Indian track and field athlete** who is the reigning Olympic champion and world championship silver medalist in the javelin throw.
- He is the first Asian athlete to win an **Olympic gold medal in the men's javelin throw**.
- Neeraj Chopra fought the odds and Johannes Vetter won **the men's javelin throw gold medal** at the Tokyo Olympics.



★ Additional Information

- **Maxence "Max" Parrot** is a Canadian snowboarder.
- He is the reigning Olympic champion in slopestyle, winning gold at the 2022 Winter Olympics and also winning a silver in the event at the **2018 Winter Olympics**.
- **Sachin Ramesh Tendulkar** is an Indian former international cricketer who captained the Indian national team.
- **Vinesh Phogat is an Indian wrestler** . She became the first Indian woman wrestler to win gold in both Commonwealth and Asian Games.

100. Answer: b

Explanation:

The correct answer is Article 22.

★ Key Points

- **Article 22** of the Indian Constitution **provides protection against such arrest and detention inserted** in cases in preventive detention under **Section 151** of the Criminal Procedure Code **1973**.
- Preventive detention is without trial. A person can be detained only on grounds of suspicion hence the rights of a person arrested in this manner get governed by preventive detention laws.
- Preventive detention is an action taken on grounds of suspicion some wrong actions may be done by the person concerned hence a **Police officer can arrest an individual without orders from a magistrate without a warrant** if he gets any information of such an individual cannot commit any offence.

★ Additional Information

- **Article 25** guarantees the freedom of conscience, the freedom to profess, practice, and propagate religion to all citizens.
- **Article 23** in the Constitution Of India 1949 means **Prohibition of traffic in human beings and forced labour**.
- **The Right against Exploitation is enshrined in Articles 23 and 24 of the Indian Constitution**.

- **Article 20** , no person shall be convicted of any offense except for violation of the law in force at the time of the commission of the act charged as an offence, nor be subjected to a penalty greater than that which might have been inflicted under the law in force at the time of the commission of the offence.

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