

Prepp

Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 21 July 2022 Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

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

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

General Intelligence & Reasoning

1. In a certain code language, 'RA + FE' is coded as '246', and 'AB + JC' is coded as '115'. How will 'AC + BD' be coded in that language? (+1, -0.25)

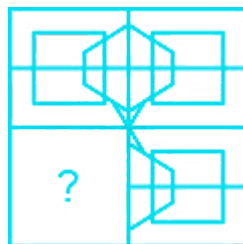
- a. 39
- b. 23
- c. 27
- d. 37

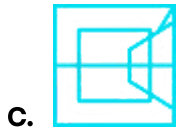
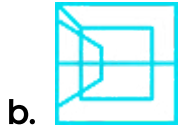
2. After interchanging which two signs will the value of the given expression be '37'? (+1, -0.25)

$$27 + 3 \div 81 \times 93 - 57$$

- a. + and \div
- b. - and +
- c. \times and +
- d. \div and -

3. Select the figure from the options that can replace the question mark (?) and complete the pattern. (+1, -0.25)





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

Statements:

Some apples are oranges.

No orange is a grape.

Conclusions:

I. Some grapes are apples.

II. Some oranges are apples.

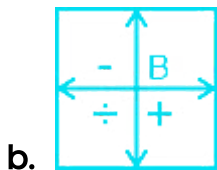
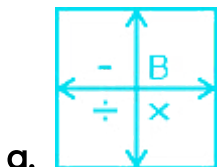
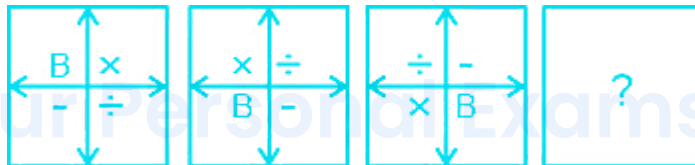
- a. Only conclusion II follows
- b. Both conclusions I and II follow
- c. Neither conclusion I nor II follows

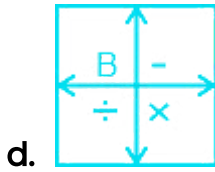
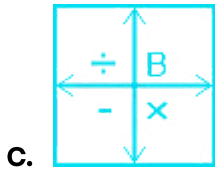
d. Only conclusion I follows

5. Eight friends, Jay, King, Lisa, Mon, Nia, Ori, Piu, and Ria are sitting around a circular table facing the centre. Jay is sitting second to the right of Piu who is sitting third to the right of King. Mon is sitting second to the left of Ori, who sits between Piu and Jay. Lisa is not a neighbour of King or Nia. Who is sitting to the immediate right of King? (+1, -0.25)

- a. Piu
- b. Mon
- c. Ori
- d. Nia

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





7. In a certain code language, 'HINTS' is coded as '5', and 'GRAD' is coded as (+1, -0.25) '4'. How will 'POL' be coded in that language?

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

8. In a certain code language, 'ACTION' is written as '36' and 'PIZZA' is written as '25'. How will 'GALLERY' be written in that language? (+1, -0.25)

- a. 59
- b. 39
- c. 64
- d. 49

9. 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

(+1, -0.25)

related to the third number.

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

12 : 225 :: 10 : 169 :: 14 : ?

- a. 289
- b. 441
- c. 361
- d. 529

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

DAT : GFA :: BNT : ESA :: PUN : ?

- a. SZU
- b. SZT
- c. SYU
- d. SZV

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

SB : VY :: GN : ?

- a. JL
- b. DR
- c. JK
- d. DQ

12. Select the option in which the pair of letter-clusters share the same relationship as that shared by the given pair of letter-clusters. (+1, -0.25)

ROCK : JDNS

- a. WART : SSZX
- b. PICK : LDHQ
- c. GOLA : YMPH
- d. DRUM : LVQC

13. 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. (+1, -0.25)

12 : 33 :: 31 : 71 :: 79 : ?

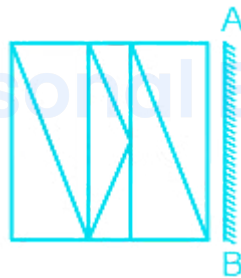
- a. 167
- b. 179
- c. 138
- d. 182

14. 6 boys B1, B2, B3, B4, B5 and B6 are sitting around a rectangular table facing towards the centre (not necessarily in the same order). Two boys are sitting on each longer side and one boy is sitting on each shorter side of the table. B1 sits second to the left of B6. B4 sits second to the left of B5. B5 is the immediate neighbour of B6 and B2. B5 is not sitting opposite to B4. B1 is not sitting on a shorter side. (+1, -0.25)

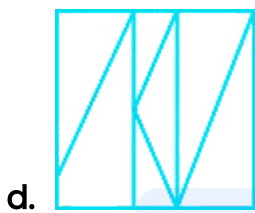
Which pair of boys is sitting on a shorter side of the rectangular table?

- a. B6 and B3
- b. B1 and B4
- c. B2 and B3
- d. B4 and B2

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



- a.



16. In a certain code language, 'That was his sister' is coded as 'Bo Uv Zs Mn', 'This was his cat' is coded as 'Zs Pt Uv Ga' and 'That was my father' is coded as 'Bo Uv Ex Yz'. What is the code for 'sister' in this code language? (+1, -0.25)

- a. Mn
- b. Zs
- c. Bo
- d. Uv

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

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed.

Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(24, 8, 96)

(36, 4, 72)

a. (12, 6, 36)

b. (30, 4, 40)

c. (28, 8, 104)

d. (16, 2, 18)

18. What will be the value of the given expression if 'A' means '+', 'B' means '-', 'C' means '×', and 'D' means '÷'? (+1, -0.25)

$$40 A 30 B 15 C 20 D 5 = ?$$

a. 5

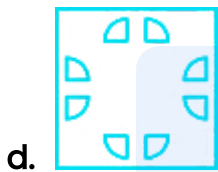
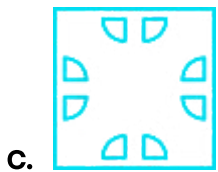
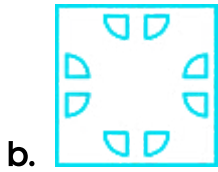
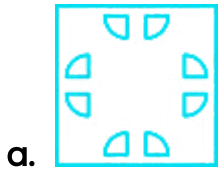
b. 10

c. 15

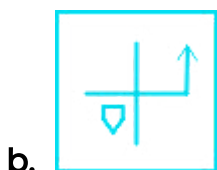
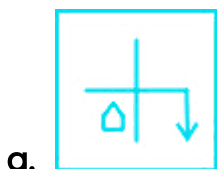
d. 20

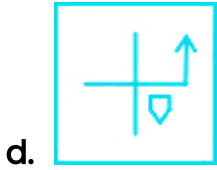
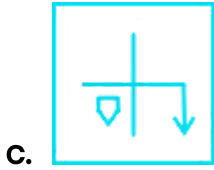
19. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded? (+1, -0.25)





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





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

Statements:

I. All W are B.

II. All M are B.

Conclusions:

I. Some B are M.

II. All W are M.

III. All B are W.

- a. Only conclusion II follows
- b. Only conclusion I follows
- c. Only conclusions I and III follow
- d. None of the conclusions follow

22. The ages of seven girls G1, G2, G3, G4, G5, G6 and G7 are compared. No two girls have the same age. The age of G3 is less than only two girls. The age of G1 is greater than G4 and G7. The age of G6 is the lowest. The age of G5 is not the highest and it is greater than G1. (+1, -0.25)

The age of how many girls is greater than G5?

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

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



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

-
24. Identify the number that does NOT belong to the following series. (+1, -0.25)

1.5, 2, 3, 6, 18, 108, 1964

- a. 108

- b. 6
- c. 18
- d. 1964

25. Select the letter-clusters that can replace the question mark (?) in the following series. (+1, -0.25)

FAN, JDP, NGR, ?, VMV

- a. RJV
- b. RJA
- c. RJT
- d. RTJ



Your Personal Exams Guide

Numerical Aptitude

26. Study the given table and answer the question that follows.

(+1, -0.25)

The table shows the marked prices (in Rs.) and percentages of discount offered for five different products.

Product	Marked Price	Discount %
P	750	12
Q	900	15
R	1,020	30
S	1,200	25
T	590	10

If product Q is sold at 53% profit and product S is sold at 80% profit, then what will be the sum of the cost prices of Q and S?

- a. Rs. 1,100
- b. Rs. 800
- c. Rs. 1,000
- d. Rs. 1,200

27. What is the value of 15% of 30% of 700?

(+1, -0.25)

- a. 29.5
- b. 31.5
- c. 32.5

d. 28.5

28. The average age of 29 students in a class is 26 years. If the age of the teacher is also included, the average age of the class becomes 26.4 years. Find the age of the teacher? (+1, -0.25)

- a. 36 years
 - b. 38 years
 - c. 42 years
 - d. 32 years
-

29. What is the value of $\frac{0.1 \div 0.2 \times 0.3 + 0.4 \times 0.5 \div 0.1}{0.1 \times 0.2 - 0.01}$? (+1, -0.25)

- a. 220
 - b. 210
 - c. 216
 - d. 215
-

30. The perimeter of a square is 90 cm more than the length of each of its side. What is the length of each side of the square? (+1, -0.25)

- a. 25 cm
- b. 30 सेमी
- c. 60 cm
- d. 45 cm

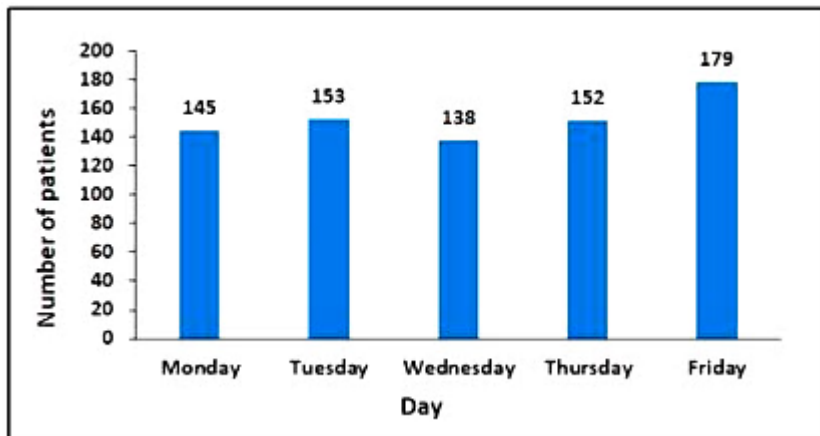
31. What is the smallest three-digit number which, when divided by 8 or 6, leaves a remainder of 1 in each case? (+1, -0.25)

- a. 121
- b. 119
- c. 123
- d. 125

32. A girl, walking at $\frac{5}{6}$ of her usual speed, misses the bus by 7 minutes. How long does she usually take to reach the bus stop? (+1, -0.25)

- a. 24 minutes
- b. 35 minutes
- c. 30 minutes
- d. 60 minutes

33. The following bar graph shows the number of patients visiting a hospital on different days of a certain week. (+1, -0.25)



Calculate the ratio of the total number of patients visiting the hospital on Monday or Wednesday to the number of patients visiting the hospital on Friday. [Note: None of the patients visited the hospital on more than one day during the given week.]

- a. 283 : 179
- b. 179 : 283
- c. 282 : 179
- d. 197 : 282

34. Rs. 2,400 is divided among three kids in the ratio of 2 : 3 : 3. Find the lowest share. (+1, -0.25)

- a. Rs. 500
- b. Rs. 600
- c. Rs. 700
- d. Rs. 400

35. An inkjet printer can print 8 lines/second and can print a document in 6 minutes. How much time would an LED printer take to print the same document if it can print 7 lines/second more than the inkjet printer? (+1, -0.25)

- a. 2 min 54 sec
- b. 2 min 50 sec
- c. 3 min 12 sec
- d. 3 min 4 sec

36. A 30-litre mixture of milk and water contains 15% water. How much water must be added to it to increase the percentage of water in the solution to 37.5%? **(+1, -0.25)**

- a. 6.0 liters
- b. 7.2 liters
- c. 8.4 liters
- d. 10.8 liters

37. The value of $0.1 \times 99\%$ of $1000 + 1.5 \div 0.3 \times 1.1$ is: **(+1, -0.25)**

- a. 105.6
- b. 101.0
- c. 104.5
- d. 106.5

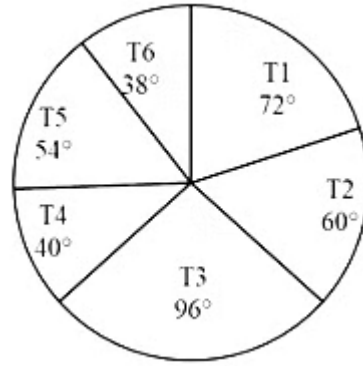
38. 4 years ago, the age of Garvit was three times that of Yuvansh, but one year ago the age of Garvit was two times that of Yuvansh. What is the difference between the ages of Garvit and Yuvansh? **(+1, -0.25)**

- a. 6 years
- b. 7 years
- c. 13 years
- d. 11 years

39. The Iceland team, while rowing, covered a distance of 20 km downstream (+1, -0.25) in 2 hours and the same distance upstream in 5 hours. Find the speed of the stream.
- a. 3 km/h
 - b. 8 km/h
 - c. 7 km/h
 - d. 4 km/h
-

40. The ratio of the selling price to the cost price of a computer is 7 : 5. What (+1, -0.25) is the profit percentage?
- a. 60%
 - b. 10%
 - c. 40%
 - d. 20%
-

41. The pie chart given below gives the measures of the central angles of the (+1, -0.25) sectors that reflect the number of flats in 6 different towers in a housing society with respect to the total flats in these 6 towers taken together.



If the difference between the number of flats in T2 and in T6 is 66, then what is the total number of flats in the 6 towers taken together?

- a. 1140
- b. 1220
- c. 960
- d. 1080

42. The height of a trapezium is 68 cm, and the sum of its parallel sides is 75 cm. If the area of the trapezium is $\frac{6}{17}$ times of the area of a square, then the length of the diagonal of the square is: (Take $\sqrt{2} = 1.41$) (+1, -0.25)

- a. 127.39 cm
- b. 183.49 cm
- c. 119.85 cm
- d. 102.39 cm

43. At present, the number of trees in a village is 52,020. It increases annually at the rate of 2%. What was the number of trees in the village two years ago? (+1, -0.25)

- a. 45,000
 - b. 51,250
 - c. 50,000
 - d. 48,000
-

44. A solid metallic sphere of radius 9 cm is melted and recast into a wire of radius 2 cm. What is the length of the wire? (+1, -0.25)

- a. 343 cm
 - b. 152 cm
 - c. 243 cm
 - d. 184 cm
-

45. A shopkeeper offers two successive discounts of 15% and 20% on an article and is still able to earn a 70% profit. If he offers a single discount of 30%, what will his profit percentage be? (+1, -0.25)

- a. 70%
 - b. 75%
 - c. 65%
 - d. 50%
-

46. A can do a piece of work alone in 15 days, while B complete the same piece of work alone in 12 days. If they work on it together for 5 days, then the fraction of the work that will be left is: (+1, -0.25)

- a. $\frac{3}{4}$
 - b. $\frac{5}{8}$
 - c. $\frac{1}{4}$
 - d. $\frac{5}{7}$
-

47. What is the average of 12.5, 18.4, 15.5, 16.6, and 20.4? (+1, -0.25)

- a. 15.58
 - b. 17.50
 - c. 16.68
 - d. 18.48
-

48. A sum invested at a certain rate of interest per annum, compounded annually, amounts to Rs. 14,400 in 2 years and to Rs. 25,920 in 4 years. What is the sum invested? (+1, -0.25)

- a. Rs. 8,200
 - b. Rs. 7,500
 - c. Rs. 8,500
 - d. Rs. 8,000
-

49. A mobile phone is sold at a profit of 80%. The nominal profit is approximately what percentage of the selling price of the mobile phone? (+1, -0.25)

- a. 33.33%

- b. 28.56%
- c. 44.44%
- d. 36.66%

50. Manoj decided to give 25% of his income to his son A and a certain amount to his son B. If he gave Rs. 2,208 to B which is 92% of the decided amount and is Rs. 1,542 less than the amount given to A, then what percent of his total income did Manoj decide to give his son B? (+1, -0.25)

- a. 15%
- b. 20%
- c. 16%
- d. 12%



Your Personal Exams Guide

General English

51. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

Travelling is the best method to utilise time.

- a. No improvement required
- b. is much best
- c. is an best
- d. are the best

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

Interfere

- a. Activate
- b. Masquerade
- c. Hasten
- d. Restrict

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

I was not even _____ that my friend was ill.

- a. alert
- b. brave

- c. aware
 - d. cruel
-

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

We've got to have / beefed-up intelligence, / including much strong / human intelligence than before.

- a. We've got to have
 - b. human intelligence
 - c. including much strong
 - d. beefed-up intelligence
-

55. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

The small farmers often need at borrow money to meet high expenses.

- a. No improvement required
 - b. needs to
 - c. need to
 - d. needing to
-

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

The blue team _____ the red team to play the game.

- a. surrendered
 - b. compromised
 - c. challenged
 - d. heated
-

57. Select the option that corrects the misspelt words in the given sentence. (+1, -0.25)

We will always rember your contribusion.

- a. We will always remembar your contributoin.
 - b. We will always remember your contribution.
 - c. We will always remmember your contrabution.
 - d. We will always remembber your contribution.
-

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

Blissful

- a. Idealised
 - b. Malicious
 - c. Miserable
 - d. Heavenly
-

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

He was a _____ man and had no wish to be rich.

- a. poverty
- b. poorly
- c. poor
- d. poorer

60. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. (+1, -0.25)

An opportunity arise, and / he decided to take the / job in Brussels.

- a. No error
- b. An opportunity arise, and
- c. he decided to take the
- d. job in Brussels

61. Select the most appropriate ANTONYM of the underlined word. (+1, -0.25)

Suggesting that Irish inflation may have a knock-on effect on the euro zone is fatuous and absurd.

- a. Relevant
- b. Serious
- c. Meek
- d. Sensible

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

All eyes and ears

- a. To be attentive
 - b. To threaten someone
 - c. To believe everyone
 - d. Full of bluster
-

63. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

Either you and my sister is involved in this crime.

- a. you or mine
 - b. you nor my
 - c. you or my
 - d. No improvement required
-

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

Government by king or queen

- a. Monarchy
- b. Capitalism

- c. Plutocracy
 - d. Oligarchy
-

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

Beyond the shadow of a doubt

- a. located in a remote area
 - b. live in fear and uncertainty
 - c. With certainty; for sure
 - d. Forget all past problems
-

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

- a. Buraeucrat
 - b. Buruaecrat
 - c. Bureuacrat
 - d. Bureaucrat
-

67. Parts of the given sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. (+1, -0.25)

Germes will always find a way to exploit our human environment.

- a. No error
- b. a way to exploit

- c. Germs will always find
 - d. our human environment
-

68. Select the most appropriate synonym of the underlined word. (+1, -0.25)

This style is ideal for men of all ages who wish to convey a dapper look.

- a. Messy
 - b. Filthy
 - c. Stylish
 - d. Healthy
-

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

Violation or misuse of what is regarded as sacred

- a. Remedy
 - b. Benediction
 - c. Sacrilege
 - d. Devotion
-

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

Rioting broke out after the government raised the fuel prices again.

- a. raising
- b. raise
- c. No substitution required
- d. is raising

71. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

When it (1)_____ to witnessing wars, famines or disease outbreaks on the news, guilt may (2)_____ us to volunteer or donate money. Watching the generosity of other people (3)_____ play an active role in helping others is also guilt-provoking, which can (4)_____ turn activate us to take similar (5)_____ thus paying forward.

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

- a. come
- b. coming
- c. comes
- d. came

72. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

When it (1)_____ to witnessing wars, famines or disease outbreaks on the news, guilt may (2)_____ us to volunteer or donate money. Watching the generosity of other people (3)_____ play an active role

in helping others is also guilt-provoking, which can (4)_____ turn activate us to take similar (5)_____ thus paying forward.

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

- a. desire
- b. inspire
- c. conspire
- d. expire

73. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

When it (1)_____ to witnessing wars, famines or disease outbreaks on the news, guilt may (2)_____ us to volunteer or donate money. Watching the generosity of other people (3)_____ play an active role in helping others is also guilt-provoking, which can (4)_____ turn activate us to take similar (5)_____ thus paying forward.

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

- a. who
- b. whose
- c. whom
- d. which

74. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in (+1, -0.25)

each blank.

When it (1) _____ to witnessing wars, famines or disease outbreaks on the news, guilt may (2) _____ us to volunteer or donate money. Watching the generosity of other people (3) _____ play an active role in helping others is also guilt-provoking, which can (4) _____ turn activate us to take similar (5) _____ thus paying forward.

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

- a. with
- b. for
- c. in
- d. off

75. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

When it (1) _____ to witnessing wars, famines or disease outbreaks on the news, guilt may (2) _____ us to volunteer or donate money. Watching the generosity of other people (3) _____ play an active role in helping others is also guilt-provoking, which can (4) _____ turn activate us to take similar (5) _____ thus paying forward.

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

- a. animation
- b. action
- c. apathy
- d. commotion

General Awareness

76. Which freedom fighter is also known as the 'Grand Old Man of India'? (+1, -0.25)
- a. Dr. Zakir Hussain
 - b. Dadabhai Naoroji
 - c. Chakravarti Rajagopalachari
 - d. Mahatma Gandhi
-
77. Which organisation of the government of India reports the GDP of the country? (+1, -0.25)
- a. Securities and Exchange Board of India
 - b. Central Statistics Office
 - c. NITI Aayog
 - d. Reserve Bank of India
-
78. Which of the following fundamental rights deals with 'Prohibition of Discrimination'?' (+1, -0.25)
- a. Right to Freedom of Religion
 - b. Right to Equality
 - c. Right Against Exploitation
 - d. Right to Freedom
-

79. Uttar Pradesh won the 11th Junior National Men's Hockey Championship following a 3- 1 victory over Chandigarh. Where was the event held? (+1, -0.25)

- a. Bihar
- b. Tamil Nadu
- c. Delhi
- d. Chandigarh

80. 'Cracking the Code: My Journey to Bollywood' is the autobiography of ----- (+1, -0.25)

- a. Rajkumar Rao
- b. Amit Sadh
- c. Sushant Singh Rajput
- d. Ayushmann Khurana

81. At the age of -----, Mahavira left home and went to live in a forest. (+1, -0.25)

- a. 33
- b. 35
- c. 30
- d. 27

82. Which of the following factors increases the rate of evaporation? (+1, -0.25)

I. An increase in surface area

II. A decrease in humidity

- a. Both I and II
 - b. Only II
 - c. Neither I nor II
 - d. Only I
-

83. Mahogany tree is found in which of the following types of vegetation? (+1, -0.25)

- a. Mangrove forests
 - b. Tropical evergreen forests
 - c. Tropical thorn forests
 - d. Montane forests
-

84. How many Grammy nominations have been received by Zubin Mehta as of March 2022? (+1, -0.25)

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

85. In which district of Rajasthan is the Elephant festival celebrated every year? (+1, -0.25)
- a. Alwar
 - b. Kota
 - c. Jaipur
 - d. Ajmer
-

86. Who among the following won the Filmfare Award for Best Choreography for the title song of Sushant Singh Rajput's film Dil Bechara? (+1, -0.25)
- a. Remo D'Souza
 - b. Ganesh Acharya
 - c. Farah Khan
 - d. Bosco - Caesar
-

87. Which is the longest national highway in India? (+1, -0.25)
- a. NH-102
 - b. NH-44
 - c. NH-22
 - d. NH-7
-

88. Which of the following Indian cities will co-host the FIH Men's Hockey World Cup 2023? (+1, -0.25)

- a. Bhubaneswar
 - b. Delhi
 - c. Bangalore
 - d. Patiala
-

89. Quit India movement was started in _____. (+1, -0.25)

- a. 1936
 - b. 1944
 - c. 1938
 - d. 1942
-

90. Name the only Female Muslim ruler of India. (+1, -0.25)

- a. Razia Sultana
 - b. Khadija
 - c. Nusaybah bint Ka'ab
 - d. Khawla bint al-Azwar
-

91. If unemployment continues to be a long-term feature of a country, then it is called _____ unemployment. (+1, -0.25)

- a. structural
- b. casual

- c. frictional
 - d. chronic
-

92. Who was appointed as the head coach of the Indian men's cricket team by the BCCI in November 2021? (+1, -0.25)

- a. Vinod Kambli
 - b. Kapil Dev
 - c. Sunil Gavaskar
 - d. Rahul Dravid
-

93. Which of the following statements regarding seasonal unemployment is CORRECT? (+1, -0.25)

- a. It happens when people are not able to find jobs during some months of the year.
 - b. It happens mainly in urban areas.
 - c. If a field requires 4 people, and 7 are employed, then 3 people are seasonally unemployed.
 - d. People who do not depend upon agriculture usually face such kind of unemployment.
-

94. Nita is telling her friend about the smallest planet of our solar system. Which of the following planets is she talking about? (+1, -0.25)

- a. Earth

- b. Mars
 - c. Mercury
 - d. Venus
-

95. Which of the following is a dance form of Maharashtra? (+1, -0.25)

- a. Bhangra
 - b. Jhumar
 - c. Kathak
 - d. Lavani
-

96. In a freestanding temple, the mountain-like spire, which can take the shape of a pyramidal tower is called ----- (+1, -0.25)

- a. garbhagriha
 - b. mandapa
 - c. vimana
 - d. vahan
-

97. Which of the following cell organelles are NOT present in animal cell? (+1, -0.25)

- a. Ribosomes
- b. Plastids
- c. Mitochondria

d. Lysosomes

98. Definition of 'Money Bills' is given in which of the following Articles of the Indian Constitution? (+1, -0.25)

a. Article 128

b. Article 110

c. Article 139

d. Article 115

99. In October 2021, the Ministry of Civil Aviation launched a scheme which will integrate cargo-related infrastructure in airports of hilly, tribal, and north-east regions. Name the scheme launched by the Ministry of Civil Aviation. (+1, -0.25)

a. Krishi Udan 1.0

b. SAMBHAV

c. Krishi Udan 2.0

d. Regional Connectivity Scheme

100. Which of the following diseases is caused by the deficiency of Vitamin A? (+1, -0.25)

a. Night blindness

b. Scurvy

c. Marasmus

d. Kwashiorkor

prepp

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Answers

1. Answer: d

Explanation:

Here, the alphabets and their positions are shown as below:

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

The logic here is:

RA + FE: So, we have $R + F = 18 + 6 = 24$, $A + E = 1 + 5 = 6$. So, we will have 246

And, AB + JC: So, we have $A + J = 1 + 10 = 11$, $B + C = 2 + 3 = 5$. So, we will have 115.

Thus, for AC + BD, we will have

$A + B = 1 + 2 = 3$, $C + D = 3 + 4 = 7$. So, we will have the answer as 37.

Hence, the code language is 37 of the given letter cluster.

Confusion Point: Keep in mind the positions of all the letters.

2. Answer: c

Explanation:

BODMAS Rule:

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

Given: $27 + 3 \div 81 \times 93 - 57$

First check all the options by one by one as:

1) + and ÷

$$= 27 \div 3 + 81 \times 93 - 57$$

$$= 9 + 81 \times 93 - 57$$

$$= 9 + 7533 - 57$$

$$= 7485$$

2) - and +

$$= 27 - 3 \div 81 \times 93 + 57$$

$$= 27 - 0.037 \times 93 + 57$$

$$= 27 - 3.441 + 57$$

$$= 80.559 \approx 81$$

$$\begin{aligned}
 &3) \times \text{ and } + \\
 &= 27 \times 3 \div 81 + 93 - 57 \\
 &= 27 \times \frac{1}{27} + 93 - 57 \\
 &= 1 + 93 - 57 \\
 &= 94 - 57 \\
 &= 37
 \end{aligned}$$

$$\begin{aligned}
 &4) \div \text{ and } - \\
 &= 27 + 3 - 81 \times 93 \div 57 \\
 &= 27 + 3 - 81 \times 1.631 \\
 &= 27 + 3 - 132.11 \\
 &= -102.11 \approx -102
 \end{aligned}$$

Hence, the signs 'x and +' are interchanged to get the answer 37.

3. Answer: c

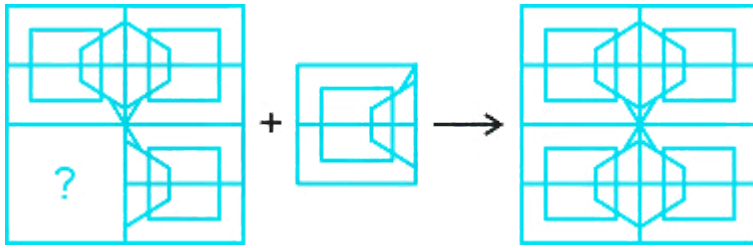
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Explanation:

Given:



So,



Hence, the correct answer is option 3.

4. Answer: a

Explanation:

Here, we are given some statements.

First, we will draw the venn diagram as below:

1) Some apples are oranges.



2) No orange is a grape.



Thus, by combining both statements, we will get,



Next, we will check the conclusions as:

I. Some grapes are apples: Since no orange is grape and some apples are oranges. So, no apples are grapes. This is not true.

II. Some oranges are apples: Since some apples are oranges and so some oranges are apples. This is true.

Hence, only **conclusion II** is follows.

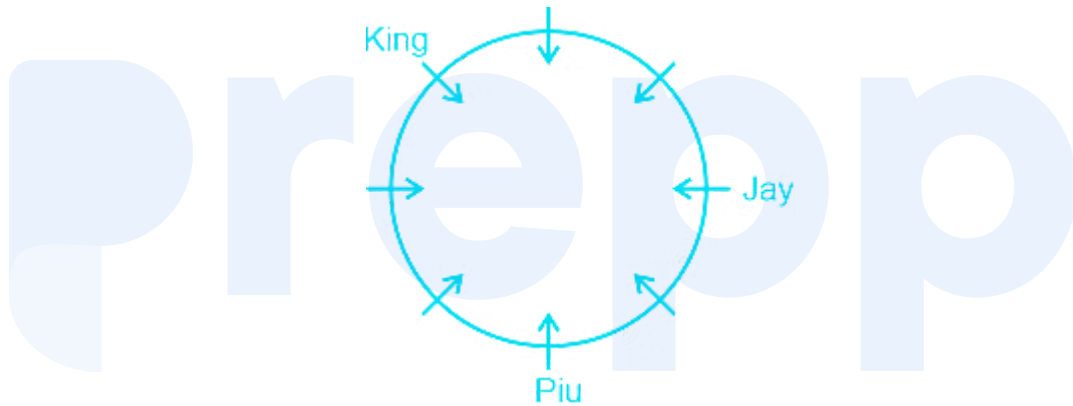
5. Answer: d

Explanation:

Given: Eight friends, Jay, King, Lisa, Mon, Nia, Ori, Piu, and Ria are sitting around a circular table facing the centre.

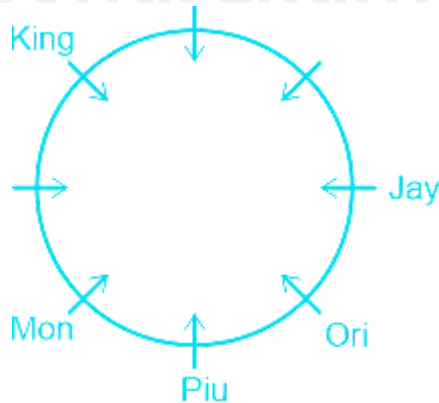
According to the given statements, we have:

1) Jay is sitting second to the right of Piu who is sitting third to the right of King.

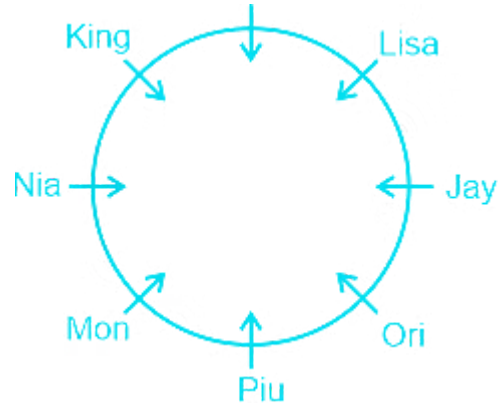


2) Mon is sitting second to the left of Ori, who sits between Piu and Jay.

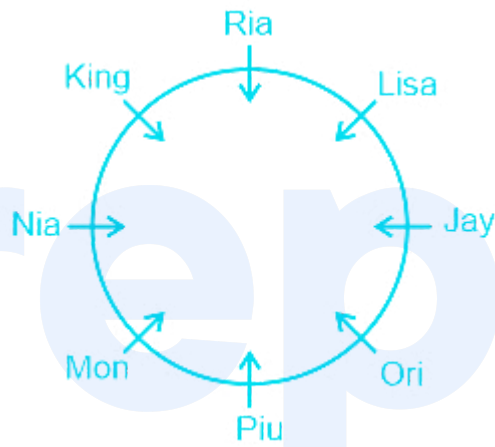
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3) Lisa is not a neighbour of King or Nia.



Thus, the final sitting arrangement will be:



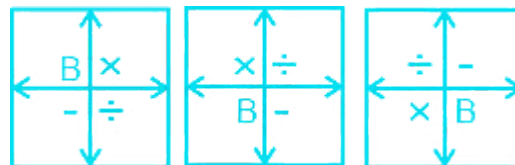
Hence, Nia is sitting to the immediate right of King.

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6. Answer: a

Explanation:

Given:



The logic here is: The letter and signs are moving in anticlockwise direction.

So, the top right will have letter B in it and in this option 4 is eliminated.

Again, the top left will have minus sign placed there and we see that option 3 is eliminated.

Next, we see that there is a plus sign in option 2 and so it is eliminated as it is not given.

Hence, the next image will be option 1.

7. Answer: b

Explanation:

Here, we need to find the pattern.

The logic here is: The code language is the total number of letters in a word.

So, for the word HINTS = 5 letters

And, for the word GRAD = 4 letters.

Thus, for the word POL = 3 letters.

Hence, the code language is 3 for the given word.

8. Answer: d

Explanation:

Here, we need to find the pattern

The logic here is: The code language is the square of the total number of letters in a word.

So, for the word ACTION = 6 letters = $6^2 = 36$

And, for the word PIZZA = 5 letters = $5^2 = 25$

Thus, for the word GALLERY = 7 letters = $7^2 = 49$

Hence, the code language is 49 for the given word.

9. Answer: a

Explanation:

The logic here is: We add 3 to the first term and then the square of that answer is the 2nd term.

So,

$$12 : 225 \Rightarrow 12 + 3 = 15, 15^2 = 225$$

$$10 : 169 \Rightarrow 10 + 3 = 13, 13^2 = 169$$

Thus, for the next term, we will do

$$14 : ? \Rightarrow 14 + 3 = 17, 17^2 = 289$$

Hence, the next term is 289.

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10. Answer: a

Explanation:

Here, the alphabets and their positions are shown as below:

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

The logic here is:

$$\begin{array}{lcl}
 D \xrightarrow{+3} G & B \xrightarrow{+3} E \\
 A \xrightarrow{+5} F & N \xrightarrow{+5} S \\
 T \xrightarrow{+7} A & T \xrightarrow{+7} A
 \end{array}$$

Thus, for the missing place we will have:

$$\begin{array}{lcl}
 P \xrightarrow{+3} S \\
 U \xrightarrow{+5} Z \\
 N \xrightarrow{+7} U
 \end{array}$$

Hence, the code language is 'SZU' for the missing place.

Confusion Point: Keep in mind the positions of all the letters.

11. Answer: c

Explanation:

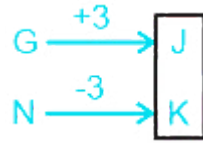
Here, the alphabets and their positions are shown as below:

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

The logic here is:

$$\begin{array}{lcl}
 S \xrightarrow{+3} V \\
 B \xrightarrow{-3} Y
 \end{array}$$

Thus, for the missing place, we will have,



Hence, the code language is 'JK' for the missing place.

Confusion Point: Keep in mind the positions of all the letters.

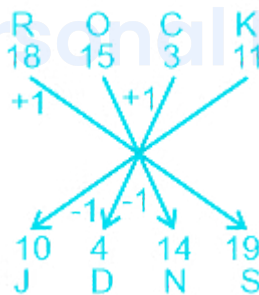
12. Answer: a

Explanation:

Here, the alphabets and their positions are shown as below:

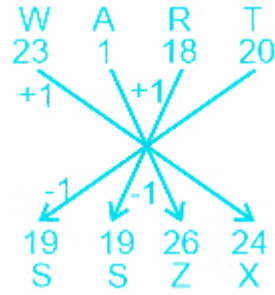
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

For the given ROCK : JDNS, the pattern used is:



Similarly,

WART : SSZX



Hence, the correct answer is option I'.

13. Answer: a

Explanation:

The logic here is: The 1st term is multiplied by 2 and then the answer is added by 9 to get the 2nd term.

So,

$$12 : 33 \Rightarrow (12 \times 2) + 9 = 33$$

$$31 : 71 \Rightarrow (31 \times 2) + 9 = 71$$

Thus, the next missing term is

$$79 : ? \Rightarrow (79 \times 2) + 9 = 167$$

Hence, the next term is 167.

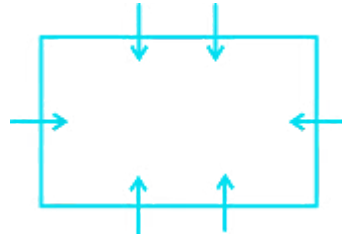
14. Answer: d

Explanation:

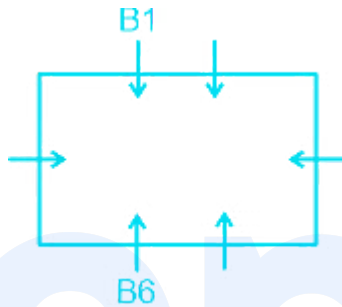
Given: There are 6 boys B1, B2, B3, B4, B5 and B6 are sitting around a rectangular table facing towards the centre (not necessarily in the same order).

According to the given statements, we get,

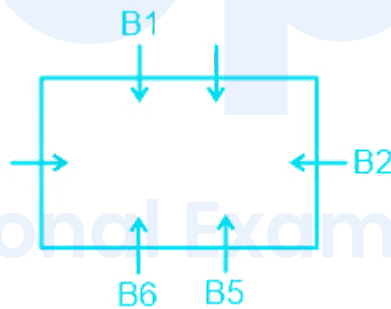
1) Two boys are sitting on each longer side and one boy is sitting on each shorter side of the table.



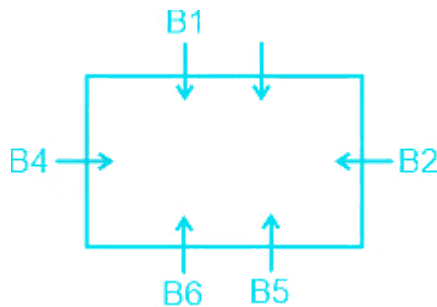
2) B1 is not sitting on a shorter side. B1 sits second to the left of B6.



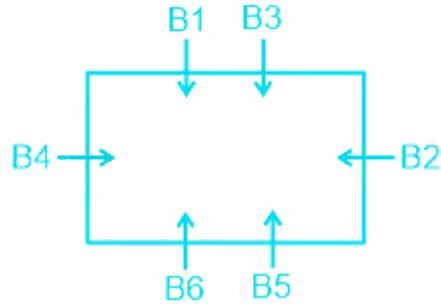
3) B5 is the immediate neighbours of B6 and B2.



4) B4 sits second to the left of B5. B5 is not sitting opposite to B4.



Thus, the final sitting arrangement is as below:



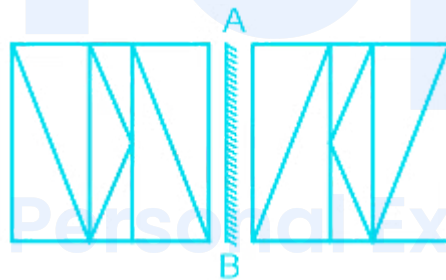
Hence, the pair of boys are 'B4 and B2' who are sitting on the shorter side of the rectangular table.

15. Answer: b

Explanation:

When the mirror is placed along the axis as shown in the question.

The mirror image is:



Hence, option 2 is the correct answer.

16. Answer: a

Explanation:

Here, we are given some statements and we need to find the code language for each word.

So, for the statements given we have,

1) 'That was his sister' is coded as 'Bo Uv Zs Mn'

2) 'This was his cat' is coded as 'Zs Pt Uv Ga'

3) 'That was my father' is coded as 'Bo Uv Ex Yz'.

From above the code language for 'was' is 'Uv' because it is there in all three statements.

Again,

'his' is coded as 'Zs'

'That' is coded as 'Bo'

Thus, for the word 'sister' in statement 1 we are left with only one code language i.e. 'Mn'

Hence, the code for 'sister' is Mn in this code language.

17. Answer: a

Explanation:

The logic here is: The 3rd term is divided by the 2nd term. This double of this answer is the number of 1st term.

$$\text{So, } (24, 8, 96) = 96 \div 8 = 12, 12 + 12 = 24$$

$$\text{And, } (36, 4, 72) = 72 \div 4 = 18, 18 + 18 = 36$$

First, we will check all the options as below:

$$1) (12, 6, 36) = 36 \div 6 = 6, 6 + 6 = 12$$

$$2) (30, 4, 40) = 40 \div 4 = 10, 10 + 10 = 20 \neq 30.$$

$$3) (28, 8, 104) = 104 \div 8 = 13, 13 + 13 = 26 \neq 28$$

$$4) (16, 2, 18) = 18 \div 2 = 9, 9 + 9 = 18 \neq 16$$

Hence, the number pair '(12, 6, 36)' is the related with the same pattern used.

18. Answer: b

Explanation:

BODMAS rule:

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

Given: 40 A 30 B 15 C 20 D 5

Substituting the signs in place of letters as:

Alphabet	Sign
D	÷
C	×
B	-
A	+

We will get,

$$= 40 + 30 - 15 \times 20 \div 5$$

Applying the BODMAS rule, we will get,

$$= 40 + 30 - 15 \times 4$$

$$= 40 + 30 - 60$$

$$= 10$$

Hence, the answer is 10 for the given equation.

Confusion Point: Keep in mind to apply BODMAS rule, while solving these types of problems.

19. **Answer: c**

Explanation:

Here, the paper is folded two times.



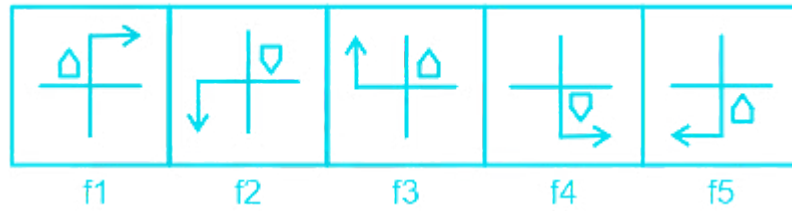
Hence, the correct answer is 'option 3'.

20. **Answer: b**

Explanation:

Here, we see that the pentagon and the arrow is changing in box.

Given:



So, we see in f1 that the pentagon is placed at the top left side. Again, in f2 it is placed at the top right but pointed downwards (i.e. upside down). And, in f3 it is placed at the top right but pointed upwards. The Pentagon is moving in a clockwise direction.

Thus, in the next figure after f5, we will get the pentagon placed in the bottom left but pointed downwards. From this, options 1 and 4 are eliminated.

Also, we see the arrow is moving in a clockwise direction. In f1 it is moving at 45 degrees and then the mirror image will be the final output as in f2. Again, in f3 it will only change its pointing part. And, again it is repeated.

Thus, in f5, it will move 45 degrees as shown in f3 and then the mirror image of that will be the final output. From this, option 3 is also eliminated.

Hence, the next image will be 'option 2'.

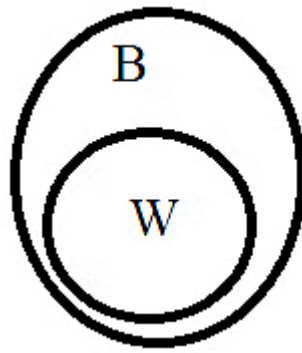
21. Answer: b

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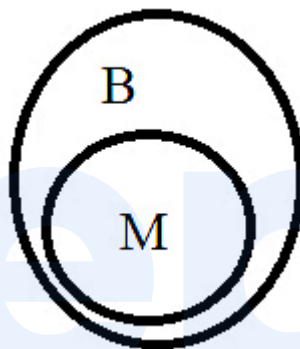
Explanation:

First, we will draw the venn diagram of the statements as below:

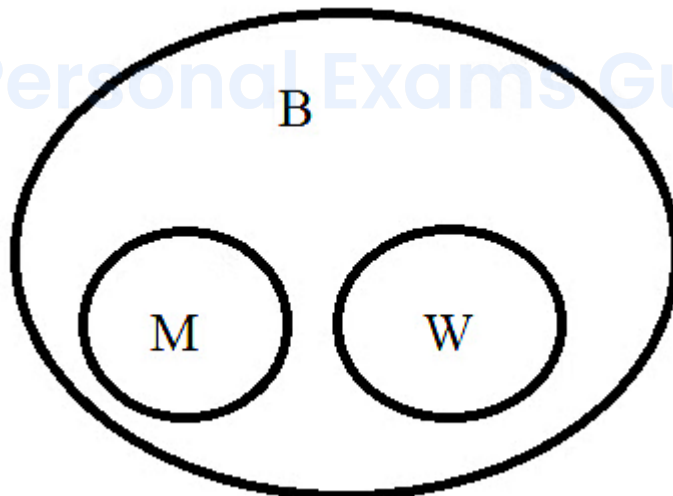
- 1) All W are B.



2) All M are B.



Thus, combining all the statements we will get,



Next, we will check the conclusions as:

I. Some B are M: Since all M are B and so some B are M. This is true.

II. All W are M: Since all W are B and all M are B. But there is no relation between M and W. This is not true.

III. All B are W: Since, all W are B given. So, some B are W but not all. This is not true.

Hence, the conclusion is true.

22. Answer: d

Explanation:

Here, there are seven girls.

According to the given statements, we have,

1) The age of G1 is greater than G4 and G7.

$$G4, G7 < G1$$

2) The age of G5 is not the highest and it is greater than G1.

$$G1 < G5$$

3) The age of G3 is less than only two girls.

$$G3 < \text{---} < \text{---}$$

4) The age of G6 is the lowest.

$$G6 < \text{---} < \text{---} < G1 < G3 < G5 < G2$$

5) No two girls have the same age.

Thus we have two possibilities here.

$$\text{Case 1: } G6 < G4 < G7 < G1 < G3 < G5 < G2$$

$$\text{Case 2: } G6 < G7 < G4 < G1 < G3 < G5 < G2$$

Hence, only 1 girl is greater than G5.

23. Answer: b

Explanation:

Given figure:



★ Important Points

- The image must not be rotated.

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

Hence, option (2) is the correct answer.

24. Answer: d

Explanation:

Here the pattern is: The two consecutive terms are multiplied to get the next term.

$$1.5 \times 2 = 3$$

$$2 \times 3 = 6$$

$$3 \times 6 = 18$$

$$6 \times 18 = 108$$

$$18 \times 108 = 1944$$

Because, $18 \times 108 = 1944$, but they have given 1964.

So here '1964' is not following the above-given logic. Hence this does not belong to the series.

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

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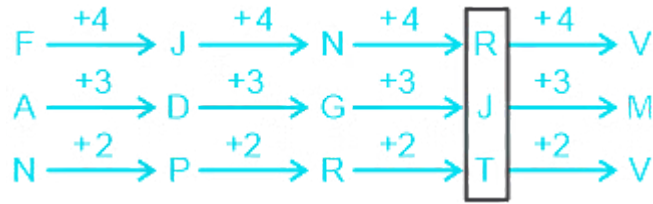
25. Answer: c

Explanation:

Here, the alphabets and their positions are shown as below:

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

The logic here is:



Hence, the code language is 'RJT' for the given word.

Confusion Point: Keep in mind the positions of all the letters.

26. Answer: c

Explanation:

Given:

A table showing the marked prices (in Rs.) and percentages of discount offered for five different products is given.

Formula used:

$$\text{Selling} = \frac{100 - \text{discount}}{100} \times \text{marked price}$$

Calculation:

Let the cost price of product Q be x.

$$\text{Selling price of product Q} = 0.85 \times 900$$

Selling price of product Q can be equated to 53% profit of it.

$$\text{Then, } 0.85 \times 900 = 1.53x$$

$$x = \frac{0.85 \times 900}{1.53} = 500$$

Let the cost price of product S be y.

$$\text{Selling price of product S} = 0.75 \times 1200$$

Selling price of product S can be equated to 80% profit of it.

Then, $0.75 \times 1200 = 1.8y$

$$y = \frac{0.75 \times 1200}{1.8} = 500$$

\therefore The sum of the cost prices of Q and S is Rs. 1000.

27. Answer: b

Explanation:

Given:

15% of 30% of 700?

Formula used:

$$x\% \text{ of } y = \frac{x}{100} \times y$$

Calculation:

$$15\% \text{ of } 30\% \text{ of } 700 = \frac{15}{100} \times \frac{30}{100} \times 700 = 31.5$$

\therefore The value of 15% of 30% of 700 is 31.5

28. Answer: b

Explanation:

Given:

The average age of 29 students in a class is 26 years. If the age of the teacher is also included, the average age of the class becomes 26.4 years.

Formula used:

Sum of observations = average \times no. of observations

Calculation:

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Let the age of the teacher be x .

Then, the average age of the class is $26.4 = \frac{26 \times 29 + x}{30}$

Solving for x ,

$$x = 26.4 \times 30 - 26 \times 29 = 38$$

\therefore The age of the teacher is 38 years.

29. Answer: d

Explanation:

Given:

$$\frac{0.1 \div 0.2 \times 0.3 + 0.4 \times 0.5 \div 0.1}{0.1 \times 0.2 - 0.01}$$

Formula used:

BODMAS rule:- Any mathematical expression is to be simplified using the following order of priority, brackets, order of power, division, multiplication, addition and then subtraction, from left to right.

Calculation:

$$\frac{0.1 \div 0.2 \times 0.3 + 0.4 \times 0.5 \div 0.1}{0.1 \times 0.2 - 0.01} = \frac{0.15 + 2}{0.02 - 0.01} = \frac{2.15}{0.01} = 215$$

\therefore The value of $\frac{0.1 \div 0.2 \times 0.3 + 0.4 \times 0.5 \div 0.1}{0.1 \times 0.2 - 0.01}$ is 215.

30. Answer: b

Explanation:

Given:

The perimeter of a square is 90 cm more than the length of each of its side.

Formula used:

Perimeter of a square = $4a$, where a is the length of each side.

Calculation:

Let the length of each side of the square be a .

$$\text{Then, } 4a = a + 90 \implies a = \frac{90}{3} = 30 \text{ cm}$$

\therefore The length of each side of the square is 30 cm.

31. Answer: a

Explanation:

Given:

Smallest 3 - digit number leaves 1 remainder when divided by 8 or 6.

Concept Used;

Lowest Common Multiple (L.C.M)

The smallest three digit number is 100

Calculation:

L.C.M of 8 and 6

\Rightarrow Prime factorization

$$8 = 2 \times 2 \times 2$$

$$6 = 3 \times 2$$

$$\Rightarrow \text{L.C.M} = 2 \times 2 \times 2 \times 3 = 24$$

When we divide 100 by 24, we get 4 as the remainder

The smallest three-digit number which is divisible by 8 or 6 = $100 - 4 + 24 = 120$

The smallest three-digit number which when divided by 8 or 6 leaves remainder 1 in each case = $(120 + 1) = 121$.

Hence, the smallest three-digit number is 121.

32. Answer: b

Explanation:

Given:

A girl, walking at $\frac{5}{6}$ of her usual speed, misses the bus by 7 minutes

Formula used:

Distance covered = speed \times time taken

Calculation:

Let the usual speed and usual time to reach the bus be v and t , respectively.

Then, the distance of the bus from her home is $vt = \frac{5v}{6}(t + 7)$

solving for t ,

$$6t = 5t + 35$$

$$t = 35 \text{ minutes}$$

\therefore The girl usually takes 35 minutes to reach the bus stop.

33. Answer: a

Explanation:

Given:

Bar graph showing the number of patients visiting a hospital on different days of a certain week is given.

Formula used:

$$\text{Ratio of } x \text{ and } y = \frac{x}{y}$$

Calculation:

The total number of patients visiting the hospital on Monday or Wednesday = $145 + 138 = 283$

The number of patients visiting the hospital on Friday = 179

$$\text{Ratio} = \frac{283}{179}$$

\therefore The ratio of the total number of patients visiting the hospital on Monday or Wednesday to the number of patients visiting the hospital on Friday is 283 : 179.

34. Answer: b

Explanation:

Given:

Rs. 2,400 is divided among three kids in the ratio of 2 : 3 : 3

Formula used:

If a, b, c are in proportion then, ax, bx, cx are also in proportion, where x is a real constant.

Calculation:

Let the three kids get 2x, 3x, 3x amount of money, respectively.

$$\text{Then, } 2x + 3x + 3x = 2400$$

Solving for x,

$$x = \frac{2400}{8} = 300$$

∴ The lowest share is $2 \times 300 = \text{Rs. } 600$

35. **Answer: c**

Explanation:

Given:

An inkjet printer can print 8 lines/second and can print a document in 6 minutes. A LED printer can print 7 lines/second more than the inkjet printer.

Formula used:

Work done = rate \times time

Calculation:

Number of lines in the document = $8 \times 6 \times 60 = 2880$

Time taken for LED printer = $\frac{2880}{15} = 192 \text{ sec}$, which is 3 min 12 sec.

∴ Time taken for the LED printer to print the document is 3 min 12 sec.

36. **Answer: d**

Explanation:

Given:

Total mixture = 30 L

Water contains = 15% of 30 L = 4.50 L

Milk contains = 85% of 30 L = 25.50 L

Now we add some water, then water contains in the mixture is 37.5% of the total mixture.

The ratio of milk and water in the final mixture = $62.5 : 37.5 = 5 : 3$

Let us add x liters of water, so

$$\frac{25.50}{4.50+x} = \frac{5}{3}$$

$$76.50 = 22.50 + 5x$$

$$5x = 54$$

$$x = 10.8 \text{ L}$$

So the water added to the mixture is 10.8 liters.

37. Answer: c

Explanation:

Given:

$$0.1 \times 99\% \text{ of } 1000 + 1.5 \div 0.3 \times 1.1$$

Formula used:

BODMAS:

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

Calculation:

$$0.1 \times 99\% \text{ of } 1000 + 1.5 \div 0.3 \times 1.1$$

$$= 0.1 \times (0.99 \times 1000) + 1.5 \div 0.3 \times 1.1$$

$$= 0.1 \times 990 + 1.5 \div 0.3 \times 1.1$$

$$= 0.1 \times 990 + 5 \times 1.1$$

$$= 99 + 5.5$$

$$= 104.5$$

\therefore The value of $0.1 \times 99\%$ of $1000 + 1.5 \div 0.3 \times 1.1$ is 104.5

38. Answer: a

Explanation:

Given:

4 years ago, the age of Garvit was three times that of Yuvansh, but one year ago the age of Garvit was two times that of Yuvansh.

Method used:

Elimination method of linear equation in two variable

Calculation:

Let the present age of Garvit be x years and the present age of Yuvansh be y years.

Then, 4 years ago, $x - 4 = 3 \times (y - 4) \dots (1)$

And one year ago, $x - 1 = 2 \times (y - 1) \dots (2)$

Subtracting (2) from (1),

$$3 = y - 10$$

$$y = 7$$

Substituting $y = 7$ in (1),

$$x = 3 \times (7 - 4) + 4 = 13$$

∴ The difference between the ages of Garvit and Yuvansh is $13 - 7 = 6$ years.

39. Answer: a

Explanation:

Given:

The Iceland team, while rowing, covered a distance of 20 km downstream in 2 hours and the same distance upstream in 5 hours.

Formula used:

Distance = speed × time

Calculation:

Let the speed of the stream be x and the speed of the boat be y .

$$\text{Then, for downstream, } 20 = (x + y) \times 2 = 2x + 2y \quad \dots(1)$$

$$\text{for upstream, } 20 = (y - x) \times 5 = 5y - 5x \quad \dots(2)$$

Multiplying equation(1) by 5, and equation (2) by 2, and subtracting (2) from (1),

$$60 = 20x$$

$$x = 3$$

∴ The speed of the stream is 3 km/h.

40. Answer: c

Explanation:

Given:

The ratio of the selling price to the cost price of a computer is 7 : 5

Formula used:

$$\text{profit percentage} = \frac{\text{selling price} - \text{cost price}}{\text{cost price}} \times 100$$

Calculation:

$$\text{profit percentage} = \left(\frac{7}{5} - 1\right) \times 100 = 40\%$$

∴ The profit percentage on the computer is 40%.

41. Answer: d

Explanation:

Given:

A pie chart is given which gives the measures of the central angles of the sectors that reflect the number of flats in 6 different towers in a housing society with respect to the total flats in these 6 towers taken together.

Formula used:

$$\text{value of sector} = \frac{\text{central angle}}{360} \times \text{the value of the whole}$$

Calculation:

If the difference between the number of flats in T2 and in T6 is 66,

$$\frac{60}{360}x - \frac{38}{360}x = 66 \implies x = \frac{66 \times 360}{22} = 1080$$

∴ The total number of flats in the 6 towers taken together is 1080.

42. Answer: c

Explanation:

Given:

The height of a trapezium is 68 cm, and the sum of its parallel sides is 75 cm and the area of the trapezium is $\frac{6}{17}$ times of the area of a square.

Formula used:

Area of the trapezium = $\frac{(a+b)h}{2}$, where (a+b) is the sum of its parallel sides and h is height.

Area of the square = a^2 , where 'a' is the length of each side

Diagonal of a square = $\sqrt{2}a$

Calculation:

Area of the trapezium = $\frac{68 \times 75}{2} = 2550$

Area of the square = $\frac{17}{6} \times 2550 = a^2$

Solving for a,

$a = \sqrt{7225} = 85 \text{ cm}$

\therefore The length of the diagonal of the square is $1.42 \times 85 \approx 119.85 \text{ cm}$.

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43. Answer: c**Explanation:****Given:**

Present number of trees in a village = 52,020

Annual Increase percentage = 2%

Calculation:

\Rightarrow Let the number of trees two years ago be x.

$$\Rightarrow \text{Number of trees one years ago after increase} = x + \frac{2}{100} \times x = x + \frac{x}{50}$$

$$\Rightarrow \text{One years ago number of trees becomes} = \frac{51x}{50}$$

$$\Rightarrow \text{Present number of trees} = \frac{51x}{50} + \frac{2}{100} \times \frac{51x}{50}$$

$$\Rightarrow \frac{51x}{50} + \frac{51x}{2500} = \frac{2550x+51x}{2500} = \frac{2601x}{2500}$$

\Rightarrow According to the question,

$$\Rightarrow \frac{2601x}{2500} = 52020$$

$$\Rightarrow x = \frac{52020 \times 2500}{2601} = 20 \times 2500 = 50,000$$

Hence, the number of trees in the village two years ago was 50,000

44. Answer: c

Explanation:

Given:

A solid metallic sphere of radius 9 cm is melted and recast into a wire of radius 2 cm.

Formula used:

Volume of a sphere = $\frac{4}{3}\pi r^3$, where 'r' is the radius

Volume of a wire = $\pi r^2 l$, where 'l' is its length.

Calculation:

$$\text{Volume of the sphere} = \frac{4}{3}\pi \times 9^3 = 972\pi \text{ cm}^3$$

$$\text{Volume of the wire} = \pi(2)^2 l = 4\pi l \text{ cm}^3$$

By equating volume of sphere and volume of wire we get,

$$972 \times \pi = 4 \times \pi \times l$$

Solving for l ,

$$l = \frac{972}{4} = 243 \text{ cm}$$

\therefore The length of the wire is 243 cm.

45. Answer: b

Explanation:

Given:

Successive discounts = 15% and 20%

Profit = 70%

Single Discount = 30%

Concept Used:

$$\text{Selling Price} = \frac{100 + \text{Profit}\%}{100} \times CP$$

Calculation:

\Rightarrow Let the cost price of an article be Rs 100

\Rightarrow Price after first discount of 15% = $100 - 15\%$ of 100

\Rightarrow Selling price after first discount of 15% = $100 - \frac{15}{100} \times 100 = 100 - 15 = 85$ Rs

\Rightarrow Price after second discount of 20% = $85 - 20\%$ of 85

\Rightarrow Final Selling Price = $85 - \frac{20}{100} \times 85 = 85 - 17 = 68$ Rs

\Rightarrow Now, Cost Price = $\frac{100}{100 + 70} \times 68 = \frac{10}{17} \times 68 = 40$ Rs

\Rightarrow So, to sell the article at 30% discount,

\Rightarrow Selling Price = $100 - \frac{30}{100} \times 100 = 100 - 30 = 70$ Rs

$$\Rightarrow \text{Profit} = \text{SP} - \text{CP} = 70 - 40 = \text{Rs } 30$$

$$\Rightarrow \text{Then, Profit Percentage} = \frac{\text{Profit}}{\text{CP}} \times 100 = \frac{30}{40} \times 100$$

$$\Rightarrow \text{Profit Percentage} = 75\%$$

Hence, the profit percentage made on single discount of 30% is 75%.

46. Answer: c

Explanation:

Given:

A can do a piece of work alone in 15 days, while B complete the same piece of work alone in 12 days.

Formula used:

If A can complete a work in x days, then work done in a day is $\frac{1}{x}$

$$\text{Efficiency} = \frac{\text{Total work}}{\text{Time taken}}$$

Calculation :

$$\text{Amount of work done by A in one day} = \frac{1}{15}$$

$$\text{Amount of work done by B in one day} = \frac{1}{12}$$

$$\text{Total work done by both together in a day} = \frac{1}{15} + \frac{1}{12} = \frac{9}{60} = \frac{3}{20}$$

$$\text{Work done by both together in 5 day} = \frac{3}{20} \times 5 = \frac{3}{4}$$

$$\therefore \text{The fraction of the work that will be left is } 1 - \frac{3}{4} = \frac{1}{4}$$

47. Answer: c

Explanation:

Given:

12.5, 18.4, 15.5, 16.6, and 20.4

Formula used:

$$\text{Average} = \frac{\text{sum of observations}}{\text{no. of observations}}$$

Calculation:

$$\text{Average} = \frac{12.5+18.4+15.5+16.6+20.4}{5} = 16.68$$

∴ The average of 12.5, 18.4, 15.5, 16.6, and 20.4 is 16.68

48. Answer: d

Explanation:

Given:

A sum invested at a certain rate of interest per annum, compounded annually, amounts to Rs. 14,400 in 2 years and to Rs. 25,920 in 4 years.

Formula used:

Value after 'n' years = $P \left(1 + \frac{r}{100}\right)^n$, where P is the principle amount and r is the interest rate per annum.

Calculation:

After 2 years,

$$14400 = P \left(1 + \frac{r}{100}\right)^2$$

$$\text{Therefore, } \frac{14400}{P} = \left(1 + \frac{r}{100}\right)^2$$

After 4 years,

$$25920 = P \left(\frac{14400}{P} \right)^2$$

$$P = \frac{14400^2}{25920} = 8000$$

∴ The sum invested is Rs. 8000

49. Answer: c

Explanation:

Given:

A mobile phone is sold at a profit of 80%.

Formula used:

$$\text{Selling price} = \frac{100 + \text{profit}}{100} \times \text{cost price}$$

Calculation:

Let the cost price of the phone be Rs. 100

Then, the selling price at a profit of 80% is Rs. 180

$$\text{Profit with respect to the selling price} = \frac{180 - 100}{180} \times 100 = 44.44\%$$

∴ The nominal profit is approximately 44.44% of the selling price of the mobile phone.

50. Answer: c

Explanation:

Given:-

A's share = 25% of Manoj's income

B's share = Rs. 2208 = A's share - 1542

Calculation:-

Let Manoj's income be x .

$$\therefore \text{A's share} = 0.25x$$

Let B's decided share be y

$$\therefore \text{B's share} = 2208 = 0.92y$$

$$y = 2208/0.92 = \text{Rs. } 2400$$

According to question,

$$\therefore 2208 = \text{A's share} - 1542$$

$$\text{A's share} = \text{Rs. } 3750$$

$$\Rightarrow 0.25x = 3750$$

$$\therefore \text{Manoj income} = x = \text{Rs. } 15000$$

$$\therefore \text{Decided \% for B} = (2400/15000) \times 100$$

$$= 16\%$$

\therefore Manoj decided to give 16% of his income to B.

51. Answer: a

Explanation:

The correct answer is " **No improvement required** ".

★ Key Points

- The given sentence needs no improvement as it is correct.
- Thus, the correct answer is *option 1*.

★ Additional Information

Let us understand the use of the article - "The".

- We use the article "the" to modify specific or particular nouns.
- "The" is called a definite article.
- A or an is used to modify non-specific nouns.
- Thus, "a or an" is referred to as the indefinite article.
 - **Example:** " *Let's read the book,*" here, it refers to a particular book.

52. Answer: d

Explanation:

The correct answer is "**Restrict**".

★ Key Points

- In the given options, "**Restrict**" is the most appropriate synonym of "**Interfere**".
- The word "**Interfere**" means **'to stop something from happening'**. (हस्तक्षेप)
 - **Example:** *I'm **interfered** at work every time the phone rings.*
- The word "**Restrict**" means **put a limit on; keep under control; limit someone to only doing or having (a particular thing) or staying in (a particular place)**. (प्रतिबंध लगाना)
 - **Example:** *Some roads may have to be closed at peak times to **restrict** the number of visitors.*
- Thus, **option 4)** is the correct alternative.

★ Additional Information

- Let us understand the **meaning** of other options too.
- **Activate:** To get something to start working. (काम शुरू करने के लिए कुछ पाने के लिए)
 - **Example:** *His account was **activated** for investigation.*
- **Masquerade:** A behavior that conceals the truth. (एक व्यवहार जो सच्चाई को छुपाता है)
 - **Example:** *Two persons knocked on the house and demanded to see the youngster while **masquerading** as doctors.*
- **Hasten:** To be quick to do or say something. (कुछ करने या कहने में शीघ्रता करना)
 - **Example:** *The child **hastened** to get into the school bus.*

53. Answer: c

Explanation:

The correct answer is "aware".

★ Key Points

- In the given options, "Aware" is most appropriate option to fill in the blank.
- The word "Aware" is used to mean "knowing about or realizing something".
(अवगत)
 - **Example:** Rohan was not aware if his father was not coming to see him.
- The sentence implies that the person did not know that his friend was ill. (वाक्य का तात्पर्य है कि व्यक्ति को नहीं पता था कि उसका मित्र बीमार था)
- Thus, *option 3*) is the correct alternative.

Correct Sentence: I was not even aware that my friend was ill.

★ Additional Information

- Let us understand the meaning of other options as well.
 - **Alert:** A warning of possible danger. (चेतावनी)
 - **Brave:** The quality of having or displaying courage in the face of risk, dread, or hardship. (बहादुर)
 - **Cruel:** Unkind and unpleasant, causing pain to people or animals intentionally. (निर्दयी)

54. Answer: c

Explanation:

The erroneous part is "including much strong".

★ Key Points

- In the given options, the part "**including much strong**" has grammatical error.
- In the given sentence, human intelligence is being compared with respect to time.
- Thus, a comparative degree '**stronger**' should be used.
- Thus, **option 3)** is the correct alternative.

Correct Sentence: *We've got to have / beefed-up intelligence, / including much stronger / human intelligence than before.*

★ **Additional Information**

- **Comparative Adjectives** are the words used to describe a noun by comparing it to another noun.
- We add "er" for the comparative and "est" for the superlative.
- Let's take a look at a table that illustrates the comparative and superlative word forms for the most fundamental one-syllable adjectives.

ADJECTIVE	COMPARATIVE	SUPERLATIVE
Tall	Taller	Tallest
Small	Smaller	Smallest
Weak	Weaker	Weakest
Rich	Richer	Richest

55. Answer: c

Explanation:

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

★ **Key Points**

- In the given options, "**need to**" will improve the underlined part.
- 'To' is followed by '**need**'.

- "Need to..." is a phrase that is **used when saying that someone should do something or has to do something**.
 - Example: He **needs to** see a doctor straightaway.
- Also, since the subject is plural i.e. '**farmers**', a plural verb will be used i.e. '**need**'.
- Thus, **option 3)** is the correct alternative.

Correct Sentence: *The small farmers often need to borrow money to meet high expenses.*

★ Additional Information

- Let us understand the other uses to '**to**'.
- In the **infinitive form of verb**, the preposition "**to**" is used.
- **Examples -**
 - To do, To play, To sing.
- To indicate that something is moving from one place to another, We use the preposition "**to**".
 - Example: She is going **to** relocate to her hometown.
- We use the preposition "**from**" to indicate the beginning and "**to**" to indicate the end when a starting time and a concluding time are given.
 - Example: We typically work **from** eight in the morning **to** five in the afternoon.
- Many phrasal verbs also use the preposition '**to**'.
- Example:
- **Look forward to something .**
 - He was **looking forward to** seeing her soon.
- **Get to something.**
 - I'll **get to** that matter in a moment.

56. **Answer: c**

Explanation:

The correct answer is "**Challenged**".

★ Key Points

- In the given options, "**Challenged**" is most appropriate word to fill in the blanks.
- Here, the word "**challenged**" is used to invite somebody to fight, play, argue, etc. against you. (किसी को अपने खिलाफ लड़ने, खेलने, बहस करने आदि के लिए आमंत्रित करना)
 - **Example:** *They have **challenged** us to a soccer game this coming Saturday.*
- Thus, the correct answer is **Option 3**.

Correct Sentence: *The blue team **challenged** the red team to play the game.*

★ Additional Information

- Let us understand the **meaning** of other options as well.
- **Surrendered:** To entirely give up or agree to do without, especially in favor of another. (आत्मसमर्पण कर दिया)
 - **Example:** *The fort was **surrendered** by the troops under duress.*
- **Compromised:** To settle for something less than what you want or what you're aiming for. (आप जो चाहते हैं या जो आप लक्ष्य कर रहे हैं, उससे कम पर समझौता करना)
 - **Example:** *Women often have to **compromise** with their family and their job.*
- **Heated:** Excited and furious. (उत्साहित और उग्र)
 - **Example:** *Voters may have hoped for a **heated** debate between the presidential candidates.*

57. Answer: b

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Explanation:

The correct answer is "**We will always remember your contribution**".

★ Key Points

- The words that have been incorrectly spelt in options are "**remember**" and "contribution".
- The meaning of the word "**remember**" is **to recall or remind something**. (याद करना)
 - **Example:** I still **remember** when I used to cry a lot in the class, when I was a kid.

- The meaning of the word "**contribution**" is **the part played by a person or thing in bringing about a result or helping something to advance.** (योगदान)
 - **Example:** The major **contribution** of social scientists to the understanding of political life.
- The option that contains the correct spelling of '**remember**' and '**contribution**' is **Option 2.**

Correct Sentence: *We will always remember your contribution.*

58. Answer: c

Explanation:

The correct answer is "**Miserable**".

★ Key Points

- In the given options, "**Miserable**" is the most appropriate antonym of "**Blissful**".
- The word '**Blissful**' means **completely happy** (आनंदमय) while '**miserable**' means **very unhappy** (बहुत दुखी).
- **Examples:**
 - We spent a **blissful** year together before things started to go wrong.
 - She's **miserable** living on her own.
- Thus, **option 3**) is the correct alternative.

★ Additional Information

- Let us understand the **meaning** of other options as well.
 - **Idealised:** To depict or portray something or someone as being better to what it actually is. (किसी चीज़ या किसी को वास्तव में जो है उससे बेहतर होने के रूप में चित्रित करना)
 - **Malicious:** Driven by wicked, destructive, or evil motives. (दुर्भावनापूर्ण)
 - **Heavenly:** Very pleasant or wonderful. (बहुत ही सुखद या अद्भुत)

59. Answer: c

Explanation:

The correct answer is "poor".

★ Key Points

- In the options, 'poor' is the most appropriate option to fill in the blank.
- In the given sentence, the quality- 'poor' of the person is described.
- We need an adjective to qualify the noun 'man'.
- **Poverty** is a **noun**, **poorly** is an **adverb** and an **adjective** and **poorer** is a **comparative adjective**.
- The most appropriate adjective for the given blank is 'poor'.
- Thus, *option 3*) is the correct alternative.

Correct Sentence: *He was a **poor** man and had no wish to be rich.*

60. Answer: b

Explanation:

The correct answer is "An opportunity arise, and".

★ Key Points

- In the given options, The part "An opportunity arise, and" has error.
- The error lies in the verb 'arise', it should be "arose".
- The given sentence is in **simple past tense** (we know this by the use of the verb 'decided'), thus, the second form of the verb 'arise' should be used.
- The second form of the verb 'arise' is 'arose' and the third form of the verb is 'arisen'.
- Thus, the correct answer is **Option 2**.

The correct sentence: An opportunity arose, and he decided to take the job in Brussels.

★ Additional Information

- Arise generally means 'happen' or 'occur'.
- We use it with **abstract nouns**.
- The three forms of arise are **arise, arose, arisen**.

61. Answer: d

Explanation:

The correct answer is "Sensible".

★ Key Points

- In the given options, 'sensible' (समझदार) is the most appropriate antonym of 'fatuous'.
- The word 'Fatuous' means "Very silly or pointless". (बुद्धिहीन)
- Thus, *option 4*) is the correct alternative.

★ Additional Information

- Let us understand the meaning of other options too.
- **Relevant:** Important or useful. (उपयुक्त)
 - **Example:** The teacher discussed very **relevant** topics in the class today.
- **Meek:** Quite, Gentle. (नम्र)
 - **Example:** She could come out as mild and **meek**, but that is all an act.
- **Serious:** solemn or thoughtful in character or manner. (गंभीर)
 - **Example:** Her face grew **serious**.

62. Answer: a

Explanation:

Here the correct answer is **To be attentive**.

★ Key Points

- Let's look at the **meaning** of the given idiom:-
- **All eyes and ears** - Eagerly giving one's full attention to something. (किसी चीज पर अपना पूरा ध्यान लगाना)
 - Example: The journalists were **all eyes and ears** at the press conference.
- Thus, the correct answer is **Option 1**.

63. Answer: c

Explanation:

The correct answer is "you or my".

★ Key Points

- In the given options, "**you or my**" can improve the given part of sentence.
- We use "**Either-or**" in affirmative sentences to express a **cause-and-effect** relationship or to indicate **a choice between two possibilities**.
 - **Example:** You can stay **either** with me **or** with Janet.
- Thus, **option 3**) is the correct alternative.

★ Additional Information

- When using **either/or** and **neither/nor** use a singular verb in the sentence if both the subjects (nouns) are singular.
 - **For example,** "either my mother or my father is coming".
- "**Is**" is the singular verb in this sentence.
- But, if either of the subjects is plural, we have to use a plural verb.

64. Answer: a

Explanation:

The correct answer is "Monarchy".

★ Key Points

- In the given options, "Monarchy" can be used as a one-word substitute for the given words.
- The term 'Monarchy' refers to the system of government or rule by a king or queen. (राजा या रानी द्वारा सरकार या शासन की व्यवस्था)
- Thus, *option 1* is the correct alternative.

★ Additional Information

- Let us understand the meaning of other options too.
- **Capitalism**: an economic and political system in which a country's trade and industry are controlled by private owners for profit. (पूंजीवाद)
 - **Example**: His main contention is that *capitalism* is doomed to fail.
- **Plutocracy**: government by the wealthy. (अमीरों की सरकार)
 - **Example**: You might mistakenly believe that our country is a *plutocracy* rather than a democracy based on the way the government indulges the wealthy.
- **Oligarchy**: Control over a nation or organization by a small group of people. (लोगों के एक छोटे समूह द्वारा किसी राष्ट्र या संगठन पर नियंत्रण)
 - **Example**: All major choices are made by the company's *oligarchy*, which consists of the president, vice president, and treasurer.

65. Answer: c

Explanation:

The correct answer is "with certainty; for sure".

★ Key Points

- In the given options, "with certainty; for sure" is appropriate meaning of the given idiom.

- If you know or believe something beyond a shadow of a doubt, **you are certain that it is true.**
 - **Example:** He is responsible **beyond a shadow of a doubt.**
- Thus, **Option 3)** is the correct alternative.

66. Answer: d

Explanation:

The correct answer is "Bureaucrat".

★ Key Points

- In the given options, 'Bureaucrat' is the correctly spelt word.
- The term 'Bureaucrat' refers to the officials who work in a large administrative system. (नौकरशाह)
- Thus, **option 4)** is the correct alternative.

★ Additional Information

- Lets see some most commonly misspelled words.

Words	Misspelled as
Accommodate	Acommodate/Accomodate
Acknowledgment	Acknowledgement
Acquire	Aquire
Colleague	Collegue
Consensus	Concensus
Experience	Experiance
Fulfill	Fulfil
License	Liscence

67. Answer: a

Explanation:

The correct answer is "No error".

★ Key Points

- The given sentence does not require any improvement.
- Since the subject 'germs' is plural, the verb used i.e. 'find' is also plural.
- 'To' is followed by the first form of the verb i.e. 'exploit'.
- The given sentence is grammatically correct.
- Thus, *option 1*) is the correct alternative.

68. Answer: c

Explanation:

The correct answer is "Stylish".

★ Key Points

- In the given options, "**Stylish**" is the most appropriate synonym of "**Dapper**".
- We use the word "**Dapper**" to mean "**tidy and stylish in looks**". (दिखने में साफ सुथरा और स्टाइलिश)
- Thus, *option 3*) is the correct alternative.

★ Additional Information

- Let us understand the **meaning** of other options as well.
- **Messy**: Something untidy or dirty. (अस्तव्यस्त)
 - **Example**: Her kitchen seemed too *messy* reflecting her zero cooking skills.
- **Filthy**: extremely dirty. (गंदा)
 - **Example**: I noticed that their table cloth was *filthy*.
- **Healthy**: in a good physical or mental condition; in good health. (सेहतमंद)

- **Example:** I feel fit and **healthy**.

69. **Answer: c**

Explanation:

The correct answer is- "**Sacrilege**".

★ Key Points

- In the given options, "**Sacrilege**" is the most appropriate word to be substituted.
- The word "**Sacrilege**" refers to '*not giving a religious object or location the respect it merits; violation or misuse of what is regarded as sacred*'. (अपवित्रीकरण; किसी धार्मिक वस्तु या स्थान को वह सम्मान नहीं देना जिसके वह योग्य है; जिसे पवित्र माना जाता है उसका उल्लंघन या दुरुपयोग)
 - *Example: Putting ecclesiastical vestments to secular use was considered sacrilege.*
- Thus, **option 3**) is the correct alternative.

★ Additional Information

- Let us understand the meaning of other options as well.
 - **Remedy:** Something that alleviates illness or pain. (उपचार)
 - **Benediction:** A request for God's blessing through prayer. (प्रार्थना के माध्यम से भगवान के आशीर्वाद के लिए एक अनुरोध)
 - **Devotion:** The action of fully dedicating one's time, efforts, etc. to God or someone or something. (भक्ति)

70. **Answer: c**

Explanation:

The correct answer is- "**No substitution required**".

★ Key Points

- In the given sentence, there is "**no substitution required**".
- The given sentence is grammatically correct
- The given sentence is in past participle tense (we know this through the verb 'broke').
- Thus, we should use the past participle form of the verb.
- For instance, the past participle of jump is jumped, and the past participle of excite is excited.
- Some verbs also have a "-t" version, in which case their spelling might be slightly different like as 'Spent'.
- Thus, **option 3)** is the correct alternative.

71. Answer: c

Explanation:

The correct answer is "**comes**".

★ Key Points

- In the given options, "**comes**" is the most appropriate option to fill in the blanks.
- The given sentence is in '**Simple Present Tense**' and the subject is in **third person- "Singular"**.
- Therefore, we will use "**comes**" in the above sentence.
- Thus, **option 3)** is correct.

Correct Paragraph: When it (1) comes to witnessing wars, famines or disease outbreaks on the news, guilt may (2) _____ us to volunteer or donate money. Watching the generosity of other people (3) _____ play an active role in helping others is also guilt-provoking, which can (4) _____ turn activate us to take similar (5) _____ thus paying forward.

★ Additional Information

- We use 's' or 'es' in the verb when subject is in third person- "Singular" (He/She/It).
- **Example:**
 - *She **grows** plants in her balcony.*
 - *It **goes** round and round when the key is pressed.*
- While dealing with third person -'plural', we don't use 's' or 'es' with the verb.
- Instead, we use "**are**" before the verb.
 - **Example:** *They **are** playing badminton.*

72. Answer: b

Explanation:

The correct answer is "Inspire".

★ Key Points

- In the given option, "**Inspire**" is most appropriate option to fill in the blank.
- We use the word "**inspire**" to mean - **to excite, encourage someone or something.**
- The sentence implies that when we witness wars, famines or disease outbreaks on the news, our guilt encourages or motivates us to volunteer or donate money.
- Thus, **option 2)** is the correct answer.

Correct Paragraph: When it (1) comes to witnessing wars, famines or disease outbreaks on the news, guilt may (2) inspire us to volunteer or donate money. Watching the generosity of other people (3) _____ play an active role in helping others is also guilt-provoking, which can (4) _____ turn activate us to take similar (5) _____ thus paying forward.

★ Additional Information

- Let us understand the **meaning** of other options.
- **Desire:** It means the feeling of wanting something.

- **Conspire:** We use this word to mean - 'to plan to do something bad or illegal with a group of people'.
- **Expire:** (of a document, authorization, or agreement) come to the end of the period of validity.

73. Answer: a

Explanation:

The correct answer is "who".

★ Key Points

- In the given options, "who" is most appropriate option to fill in the blank.
- Who is used to introduce a clause giving further information about a person or people previously mentioned.
 - Example: Joan Fontaine plays the mouse who married the playboy.
- Thus, *option 1*) is the correct answer.

Correct Paragraph: When it (1) comes to witnessing wars, famines or disease outbreaks on the news, guilt may (2) inspire us to volunteer or donate money. Watching the generosity of other people (3) who play an active role in helping others is also guilt-provoking, which can (4) _____ turn activate us to take similar (5) _____ thus paying forward.

★ Additional Information

- Let's understand the **usage** of other options:-
- **Whose** - of whom or which (used to indicate that the following noun belongs to or is associated with the person or thing mentioned in the previous clause).
 - Example: He's a man **whose** opinion I respect.
- **Whom** - used instead of 'who' as the object of a verb or preposition.
 - Example: **Whom** did he marry?
- **Which** - used referring to something previously mentioned when introducing a clause giving further information.
 - Example: A conference in Vienna **which** ended on Friday.

74. Answer: c

Explanation:

The correct answer is "in".

★ Key Points

- In the given option, "in" is the most appropriate option to fill in the blank.
- "In turn" means **because of that**.
- Example: Stress causes your body to release chemicals, which **in turn** boost blood pressure.
- Thus, **option 3)** is the correct option.

Correct Paragraph: When it (1) comes to witnessing wars, famines or disease outbreaks on the news, guilt may (2) inspire us to volunteer or donate money. Watching the generosity of other people (3) who play an active role in helping others is also guilt-provoking, which can (4) **in** turn activate us to take similar (5)_____ thus paying forward.

★ Additional Information

- We use "in turn" to refer to actions or events that are in a sequence one after the other, for example because one causes the other.
 - **Example:** Each member of the party, **in turn** stood to narrate their own story until everyone had spoken.

75. Answer: b

Explanation:

The correct answer is "action".

★ Key Points

- In the given option, "**action**" is the most appropriate option to fill in the blank.
- We use the word "**action**" to mean - something done or performed.
- Thus, **option 2** is the correct option.

Correct Paragraph:When it (1) comes to witnessing wars, famines or disease outbreaks on the news, guilt may (2) inspire us to volunteer or donate money. Watching the generosity of other people (3) who play an active role in helping others is also guilt-provoking, which can (4) in turn activate us to take similar (5) action thus paying forward.

76. Answer: b

Explanation:

The correct answer is Dadabhai Naoroji.

★ Key Points

- Dadabhai Naoroji, the Grand Old Man of India, was a Parsi intellectual, educator, cotton trader, and early Indian political and social leader.
 - Dadabhai Naoroji became the president of the Indian National Congress(INC) three times.
 - Firstly, He presided over its (INC) second session in Kolkata (then Calcutta) in 1886.
 - The second time he became the president of the Indian National Congress (INC) at Lahore in 1893 and, later, for the third time again in Kolkata in 1906.
 - He is widely called "The Grand Old Man of India" for his hard work to attain "Swaraj".

★ Additional Information

- Gopal Krishna Gokhale was a great social reformer and educationist who provided exemplary leadership to India's freedom movement.
 - He worked towards social empowerment, expansion of education, and struggle for freedom in India for three decades and rejected the use of

- reactionary or revolutionary ways.
- Between 1899 and 1902, he was a member of the Bombay Legislative Council followed by work at the Imperial Legislative Council from 1902 till his death (1915).
 - At the Imperial legislature, Gokhale played a key role in framing the Morley–Minto reforms of 1909.
 - **Zakir Hussain** was the 3rd president of India, from 13 May 1967 until his death in 1969.
 - He is buried along with his wife (who died some years later) on the campus of Jamia Millia Islamia in New Delhi.
 - He also served as the Governor of Bihar as well as the Vice-President of India.
 - Mahatma Gandhi was Born in Porbandar on 2 October 1869.
 - He died on 30 January 1948.
 - He was undoubtedly a great man, both in personal force and in political effect.
 - He was an Indian Lawyer, politician, social activist, and writer who moulded the character of the struggle for freedom in India, and impressed his own ideals upon the new governing class that came into power when the English went home.
 - Mahatma Gandhi returned to India from South Africa on 9 January 1915.

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77. Answer: b

Explanation:

The correct answer is Central Statistics Office.

★ Key Points

- Gross Domestic Product (GDP)
 - GDP is the total value of all final goods and services produced inside our national borders in a given fiscal year.
 - India's GDP is computed in three methods by the Central Statistics Office (CSO): production method, expenditure method, and income method.

- India's GDP is calculated by the Central Statistics Office.
- $NDP = GDP - \text{Depreciation}$
- $NNP = GNP - \text{Depreciation}$.

★ Additional Information

- **SEBI (Securities and Exchange Board of India)**
 - SEBI was established on April 12, 1992, as per the provisions of the Securities and Exchange Board of India Act, 1992.
 - The Securities and Exchange Board of India (SEBI) is the regulator of the securities and commodity market in India.
 - The Controller of Capital Issues was the regulatory authority prior to SEBI and derived its authority from the Capital Issues Control Act, of 1947
 - SEBI is managed by a Chairman (nominated by the Central government), one member of RBI, two members from the Union Finance Ministry and five members by the Central Government (**out of which three are whole-time members**).
- **NITI Aayog (NITI Aayog, National Institution for Transforming India)**
 - The National establishment for the reworking Republic of India, conjointly known as NITI Aayog, was fashioned via a resolution of the Union cupboard on Jan one, 2015.
 - NITI Aayog is the premier policy 'Think Tank' of the govt of the Republic of India, providing each directional and policy input.
 - Whereas coming up with strategic and long-run policies and programs for the Govt of the Republic of India, NITI Aayog conjointly provides relevant technical recommendations to the Centre and States.
 - NITI Aayog Chairperson: Narendra Modi.
 - NITI Aayog Headquarters: New Delhi.
- **RBI (Reserve Bank of India)**
 - RBI was established in India on 1st April, in Kolkata in 1935 under the Reserve Bank Of India Act, 1934.
 - It was set up on the recommendation of the Hilton Young Commission.
 - RBI is the central bank of India and is responsible for the issue and supply of Indian currency.
 - RBI is the regulatory body of the Indian Banking system and it is also managing a country's Payment system.

- RBI Governor:- Shaktikanta Das (12th Dec 2018 – till now)
- RBI Headquarters:- Mumbai

78. Answer: b

Explanation:

The correct answer is Right to Equality.

★ Key Points

- The Constitution provided for Six Fundamental Rights,
- Right to equality comprises Articles 14-18 they are,
- Equality before the law and equal protection of laws (**Article 14**).
- Article 15 of the constitution deals with the Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth which is under the right to equality
- **Article 16** is about Equality of opportunity in matters of public employment.
- **Article 17** deals with the Abolition of untouchability and the prohibition of its practice.
- **Article 18** says, Abolition of titles except military and academic.

★ Additional Information

- **Right against exploitation**
 - Right against Exploitation is in Articles 23 – 24.
 - Article 23 states the Prohibition of traffic in human beings and forced labour.
 - Article 24 states the Prohibition of employment of children in factories, etc.
 - Fundamental Rights are enshrined in Articles 12 to 35 in Part III of the Indian Constitution.
- **Right to Freedom of Religion**
 - **Article 25** of the Constitution guarantees freedom of religion to all persons in India. It provides that all persons in India, subject to:
 - Public order,
 - Morality,

- Health,
- Are equally entitled to freedom of conscience, and. Have the right to freely profess, practice and propagate religion.

★ Important Points

- The Fundamental Rights are considered basic human rights of all citizens, **irrespective of their gender, caste, religion or creed. etc. which are guaranteed to its citizens by the country.**
- A legal right is an interest accepted and protected by the law in which the court of law can enforce legal rights against persons and also against the government and any debasement of any legal right is punishable by law.
- Personal right or right in-persona is available against a particular person & it corresponds to the duty imposed upon a particular person.
- Therefore, personal right generally arises out of contractual obligation.
- Inheritable rights can be passed from one generation to another, i.e. this right survives even after the death of its owner whereas, Uninheritable rights die with the death of its owner.

79. **Answer: b**

Explanation:

The correct answer is **Tamil Nadu**.

★ Key Points

- Uttar Pradesh Hockey, on 29 May 2022, won the 12th Hockey India Junior Men National Championship by defeating Hockey Chandigarh (2-0) in the final.
- The final match was held in Kovilpatti, Tamil Nadu.
- Hockey Haryana claimed third place in the competition with a 3-0 win against Hockey Odisha.
- Uttar Pradesh Hockey also won the 11th Hockey India Junior Men National Championship in 2021.
- Haryana emerged winners of the 12th Hockey India sub-junior women's national championship 2022.

- Uttar Pradesh Hockey defeated Madhya Pradesh Hockey (3-0) to secure third place in the tournament.
- Odisha was crowned as the Champions of the 12th Hockey India Senior Women National Championship 2022.
- The 12th Hockey India Senior Women National Championship 2022 was held on May 6 in Bhopal, MP.
- Former Indian women's hockey team captain Elvera Britto passed away in April 2022.

★ Additional Information

- Hockey India
 - All of India's hockey-related events for both men and women are organised, managed, and carried out by Hockey India.
 - The Ministry of Youth Affairs & Sports, Government of India has acknowledged it as the only organisation in charge of developing hockey in India.
 - Hockey India, with its headquarter in New Delhi, was founded on May 20, 2009, and is a member of the International Hockey Federation (FIH), the Indian Olympic Association (IOA), and the Asian Hockey Federation (AHF).
 - Players at the sub-junior, junior, and senior levels are trained by Hockey India with assistance from the Sports Authority of India and the Department of Sports, Government of India.
 - It was established after the IOA disbanded the Indian Hockey Federation in 2008.

80. Answer: d

Explanation:

The correct answer is **Ayushmann Khurana**.

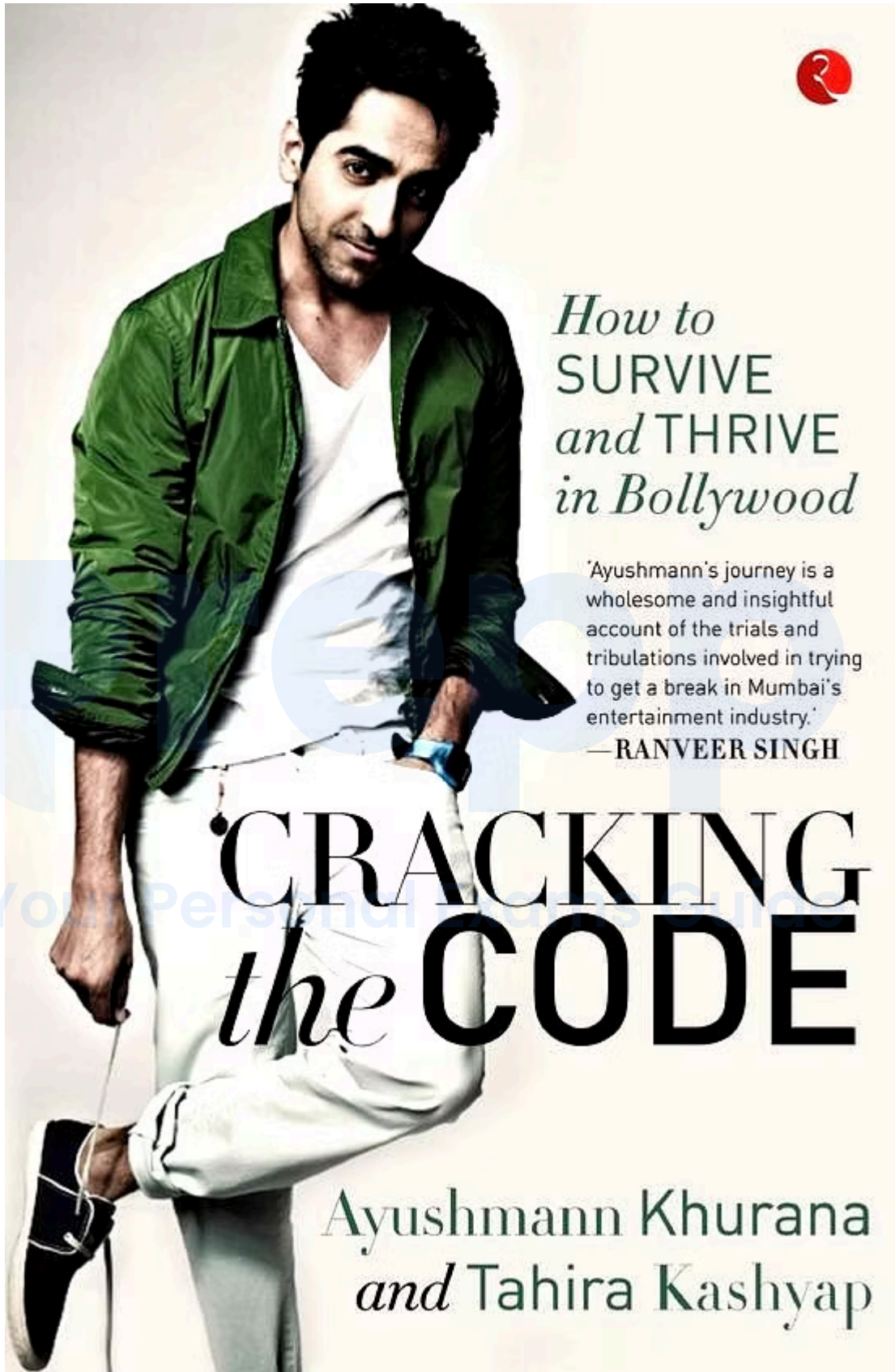
★ Key Points

- **Ayushmann Khurana** is an award-winning Indian film actor, singer and television anchor.

- In **Cracking the Code**, **Ayushmann Khurrana** actor, singer and television personality outlines a step-by-step guide to making it big.
- He is the recipient of several awards, including a **National Film Award** and **four Filmfare**.

Prepp

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*How to
SURVIVE
and THRIVE
in Bollywood*

'Ayushmann's journey is a wholesome and insightful account of the trials and tribulations involved in trying to get a break in Mumbai's entertainment industry.'

—RANVEER SINGH

CRACKING *the* CODE

Ayushmann Khurana
and Tahira Kashyap

★ Additional Information

- **Rajkumar Rao** is an Indian actor known for his work in Hindi films.
- **Amit Sadh** is an Indian actor.
 - He is known for his roles in films like Kai Po Che, Guddu Rangeela, and Sarkar 3.
- **Sushant Singh Rajput** was an Indian Actor known for his work in Hindi films.

81. Answer: c

Explanation:

The correct answer is **30**.

★ Key Points

- **Mahavira** was the **24th Tirthankara of Jainism**.
- He was the spiritual successor of the **23rd Tirthankara Parshvanatha**.
- Mahavira was born in the early part of the **6th century BCE into a royal Kshatriya Jain family in ancient India**.
- **Mahavira** practised intense meditation and severe austerities for **twelve and a half years**.
- He preached for **30 years** and attained **Moksha in the 6th century BCE**.
- **Mahavira is regarded as the man who gave Jainism its present-day form**.
- Mahavira, also known as Vardhaman was the spiritual successor of the 23rd Tirthankara.
- He was born early in the 6th century BCE in a royal Kshatriya Jain family in ancient India.
- His followers are known as Jain.

★ Important Points

- **Jainism is one of the world's oldest religions**.
- It originated in India almost **2,500 years ago**.
- The spiritual goal of **Jainism is to become liberated from the endless cycle of rebirth and to achieve an all-knowing state called moksha**.

82. Answer: a

Explanation:

The correct answer is Both I and II

★ Key Points

- The rate of evaporation increases with an increase in surface area.
- This is because the evaporation occurs in the molecules that are at the surface, and not the interior.
- An increase in humidity would actually decrease the rate of evaporation while vice-versa would increase the rate of evaporation.
- Similarly, an increase in wind speed and temperature would increase the rate of evaporation.

★ Additional Information

- Evaporation
 - The process of vapourisation which takes place only from the exposed surface of the liquid and at all temperatures is called evaporation.
 - Evaporation causes cooling.
- Vaporisation
 - The process by which a substance is changed from a liquid state to a vapour state is called vaporisation.

83. Answer: b

Explanation:

The correct answer is Tropical evergreen forests.

★ Key Points

- Tropical evergreen forests are dense, multi-layered, and found in areas receiving heavy rainfall.
- This type of forest is rich in numerous species of trees.
- It is very dense even the sunlight does not reach the ground.
- Tropical rainforests are found in areas of tropical rainforest climate.
- It receives an average rainfall of at least 60 mm and is known as also "lowland equatorial evergreen rainforest".
- Thus, these forests always see "Green" and are known as "Evergreen Forests".

★ Additional Information

- **Mangrove Forest**
 - **Mangrove forests** are fertile wetlands that grow in coastal intertidal zones.
 - They are also known as mangrove swamps, mangrove thickets, or mangals.
 - By stabilising the coastline, mangrove forests help to prevent erosion brought on by **storm surges, currents, waves, and tides.**
 - **Mangroves are salt-tolerant herbs.**
 - Mangrove trees come in roughly 80 different species.
 - All of these trees thrive in low-oxygen soil environments with slowly moving rivers that allow fine sediments to build up.
 - **Because mangrove trees cannot tolerate freezing temperatures, mangrove forests only occur at tropical and subtropical latitudes.**
- **Tropical Thorn Forests:**
 - Tropical Thorn Forests are found in areas having less than 50cm of Rainfall.
 - A variety of Grasses and Shrubs are found in these thorn forests.
 - They are present in dry and semi-dry areas of south-west Punjab, Haryana, Gujarat,
 - Rajasthan, Madhya Pradesh, and Uttar Pradesh.
 - In Tropical Thorn Forest, Trees remain leafless for the most part of the year
 - Tussocky Grass grows up to 2m in these areas.
- **Montane Forests:**
 - This type of Forest is found in Mountainous or Hilly regions.
 - Montane Forests in India can be classified as Northern and Southern Montane forests.

- Northern Montane Forests
 - Found in the Himalayan ranges.
 - The vegetation type changes with an increase in altitude from Tropical To Tundra.
 - Deciduous forests are found at the foothills of the mountains.
 - Between 1000-2000m, wet-temperate types of Forests are found.
 - Evergreen broadleaf trees such as Oak, Chestnut are commonly found in some areas at this height.
 - Between 1500- 1750m: Pine and Deodar trees are found in some areas.
 - Chinar and Walnut trees are present in Kashmir Himalayas at this altitude.
 - Between 2200-3000m Blue Pine and Spruce appear.
 - At an altitude of 3000 – 4000m, Silver firs, junipers, pine, and birch.
 - At Higher altitudes, Mosses and Lichens are present.
- Southern Montane Forests
 - They are found in three major areas in Southern India – Hills of Western Ghats, Nilgiri Hills, and Vindhyas.
 - As the Hills in Southern India are closer to the tropics and with an average height of 1500m, they only show two types of vegetation – Temperate in higher regions at sub-tropical in lower regions.
 - The Temperate Forests of Nilgiri, Annamalai, and Panini Hills are called Sholas.
 - Main Species of Southern Montane Forests: Magnolia, Laurel, cinchona, and wattle.

84. Answer: c

Explanation:

The correct answer is **18**.

★ Key Points

- Zubin Mehta -

- He is a world Famous 'Symphony Artist'.
- Zubin was born on 29 April 1936 in a Parsi family in Mumbai.
- Zubin's father Mehli Mehta was a well-known musician.
- The Government of India honoured him in 1966 with the Padma Bhushan and in 2001 with the Padma Vibhushan.
- Along with the Padma Award, in 2013, the Government of India honoured him with the Tagore Award.
- A total of **18 Grammy nominations have been received by Zubin Mehta as of March 2022.**
- He was the musical director of the Montreal Symphony from 1961 to 1967.
- He served in the same position for Los Angeles from 1962 to 1978.

★ Additional Information

- The 64th Annual Grammy Awards ceremony was held at the MGM Grand Garden Arena in Las Vegas on April 3, 2022.
- It recognized the best recordings, compositions, and artists of the eligibility year, running from September 1, 2020, to September 30, 2021.
- The Grammy Award (originally called Gramophone Award), or just Grammy, is an award presented by the Recording Academy to recognize the "Outstanding Achievement in the music industry" of the United States.
- The Grammy is considered one of the four major annual American entertainment awards, along with the Academy Awards (for film achievements), the Emmy Awards (for television achievements), and the Tony Awards (for theatre achievements).
- The first Grammy Awards ceremony was held on May 4, 1959.
- List of Winner at 64th Annual Grammy Awards:

No.	General field	Winner
1.	Record of the Year	"Leave the Door Open" - Silk Sonic
2.	Album of the Year	We are - Jon Batiste
3.	Song of the Year	Leave the Door Open
4.	Best New Artist	Olivia Rodrigo

85. Answer: c

Explanation:

The correct answer is **Jaipur**.

★ Key Points

- The Department of Tourism of the Rajasthan Government organizes multiple fairs & festivals during the year.
 - These festivals & fairs are great tourist attractions. Fairs organized in Rajasthan include:
 - Camel Festival, Bikaner (January)
 - Nagaur Fair, Nagaur (Jan-Feb)
 - Desert Festival, Jaisalmer (Jan-Feb)
 - Baneshwar Fair, Baneshwar (Jan-Feb)
 - Gangaur Festival, Jaipur (March-April)
 - Mewar Festival, Udaipur (March-April)
 - Elephant Festival, Jaipur (March-April)
 - **Urs Ajmer Sharif, Ajmer (According to Lunar Calendar)**
 - Summer Festival, Mt. Abu (June)
 - Teej Festival, Jaipur (July-August)
 - Kajli Teej, Bundi (July-August)
 - Dussehra Festival, Kota (October)
 - Marwar Festival, Jodhpur (October)
 - Pushkar Fair, Ajmer (November)

86. Answer: c

Explanation:

The correct answer is **Farah Khan**.

★ Key Points

- Farah Khan won the award for 'Best Choreography' at the Filmfare Awards 2021 for the film Dil Bechara.
- The late actor Irrfan Khan was honoured with the Lifetime Achievement Award at the 66th edition of the Filmfare Awards 2021 held in Mumbai.
- Irrfan Khan also won a posthumous award:
 - Best Actor – for his work in Angrezi Medium.
- Irrfan Khan died on April 29 in Mumbai at the age of 53 last year after a long battle with cancer.
- Taapsee Pannu won the Best Actress Award for Thappad, which also bagged the Best Film, Best Story, and Best Editing trophies.
- Amitabh Bachchan won the Best Actor (Critics) award for his performance in Gulabo Sitabo.
- Saif Ali Khan picked the Best Actor In A Supporting Role award for his work in Tanhaji: The Unsung Warrior
- Kajol's Devi won the Best Short Film (Popular Choice) award.

★ Additional Information

- 67th Filmfare Awards 2022
- Important awards:
 - Best Film: Shershaah (Dharma Productions)
 - Best Director: Vishnuvardhan (Shershaah)
 - Best Actor: Ranveer Singh (83) as Kapil Dev
 - Best Actress: Kriti Sanon, Mimi as Mimi Rathore
 - Best Supporting Actor: Pankaj Tripathi (Mimi)
 - Best Supporting Actress: Sai Tamhankar (Mimi)

87. Answer: b

Explanation:

The correct answer is NH-44.

★ Key Points

- NH-44

- National Highway 44 (NH 44) is a major north–south National Highway in India.
- It is the longest highway in the country.
- It passes through the Union Territory of Jammu and Kashmir.

★ Additional Information

- NH-102 is a short National Highway in India entirely within the state of Manipur.
- **NH118, as well as NH 548, is the shortest National highway** in India.
- **NH 118** connects the towns of Asanbani and Jamshedpur in the state of Jharkhand, running for a distance of **only about 5 km**.
- The **NH 548** traverses the state of Maharashtra for about 5 km in length
- NH-22 runs from Sonbarsa in Bihar to Chandwa in Jharkhand.
- **NH-7** connects **Dehradun and Chandigarh with the Hindu pilgrim centres of Rishikesh, Devprayag, Rudraprayag, Karnaprayag, and Badrinath.**

88. Answer: a

Explanation:

The correct answer is Bhubaneswar.

★ Key Points

- **The FIH Men's Hockey World Cup 2023** was held in Kalinga stadium, Bhubaneswar India.
- The match for the bronze medal was between Netherlands and Australia.
- The match took place on 29 January, when the Netherlands defeated Australia with a score of 3-1.
- **Germany** won the tournament by defeating Belgium after the penalty shootout round with a score of 5-4 respectively.
- **India** secured 9th place in the Final rankings of the FIH Men's Hockey world cup 2023.

★ Additional Information

- **Delhi** is famous for a lot of things, besides being the national capital.
- **Bangalore** is famous being the **Silicon Valley of India**.
- **Patiala** is a city in **Southeastern Punjab, northwestern India**.

89. Answer: d

Explanation:

The correct answer is **1942**.

★ Key Points

- Quit India Movement
 - Also known as the India August Movement or August Kranti.
 - It was officially launched by the Indian National Congress (INC) led by Mahatma Gandhi on 9 August 1942.
 - The movement gave the slogans 'Quit India' or 'Bharat Chodo'.
 - Gandhi ji gave the slogan to the people – 'Do or die'.
 - In line with the Congress ideology, it was supposed to be a peaceful non-violent movement aimed at urging the British to grant India independence.
 - The Quit India Resolution was passed by the Congress Working Committee on 8 August 1942 in Bombay. Gandhi ji was named the movement's leader.

★ Additional Information

- The Cripps Mission was sent by the British government to India in March 1942 to obtain Indian cooperation for the British war efforts in the 2nd World War.
- It was headed by Sir Richard Stafford Cripps, a labour minister in Winston Churchill's coalition government in Britain.
- Gandhiji described Cripps' offer of dominion status as, "a post-dated cheque drawn on a crashing bank".
- The Cripps Mission was a failure as it failed to give confidence to Congress about Britain's intentions (which were not sincere in any case). Neither did the Indian leadership offer support to Britain's war effort.

- In the same year, Congress started the Quit India Movement in the wake of the mission's failure.
 - Mumbai's Gowalia Tank Maidan also known as August Kranti Maidan is the place where the quit India movement was launched by Mahatma Gandhi. He along with other leaders gathered here on August 8 and 9, 1942.
-

90. Answer: a

Explanation:

The correct answer is **Razia Sultana**.

★ Key Points

- Shamsuddin Iltutmish declared his daughter, Razia sultana, as his successor.
- She was the first and only Muslim lady who ruled India.
- She was not accepted by nobles.
- Razia Sultana was assassinated in 1240 AD near Kaithal, Haryana.

★ Additional Information

- **Khawla bint al-Azwar**, was an Arab muslim warrior.
 - **Khadija** was the first wife and first follower of the Islamic prophet Muhammad.
 - **Nusaybah bint Ka'ab**, was one of the early women to convert to Islam.
-

91. Answer: d

Explanation:

The correct answer is **Chronic**.

★ Key Points

- **Chronic Unemployment** means prolonged unemployment in the economy.

- Chronic unemployment is caused due to **long-term unemployment persisting in the economy.**
- If **unemployment continues to be a long-term feature of a country**, it is called chronic unemployment.
- The major cause of unemployment in India is
 - Large population
 - Lack of vocational skills
 - Low educational level
 - Labour-intensive sectors
 - Inadequate growth of infrastructure

★ **Additional Information**

- **The rapid growth of the population and inadequate level of economic development on account vicious circle of poverty.**
- The increased population is one of the **major causes of unemployment.**
- It has been a **long-term phenomenon.**
- There are 7 types of unemployment in India
 1. Disguised unemployment
 2. Structural unemployment
 3. Seasonal unemployment
 4. Vulnerable unemployment
 5. Technological unemployment
 6. Cyclical unemployment
 7. Frictional unemployment

92. **Answer: d**

Explanation:

The correct answer is Rahul Dravid.

★ **Key Points**

- Former captain Rahul Dravid has been appointed as the head coach of the Indian men's cricket team by the BCCI (Board of Control for Cricket in India).

- Dravid was working as the head of the National Cricket Academy.
- He has been appointed for a period of two years till 2023, 50-over World Cup in India.
- **BCCI in India is the governing body for cricket in India.** Its headquarters are situated at **Wankhede Stadium in Mumbai.**
- The role of **BCCI** is to regulate and overlook the growth and development of everything related to Indian cricket.

★ Additional Information

- **Vinod Kambli** is an Indian former cricketer, who played for India as a left-handed middle-order batsman.
- **Kapil Dev** is an Indian cricketer and the greatest pace bowler in his country's history.
- **Sunil Gavaskar** is an Indian cricket commentator and former cricketer.

93. Answer: a

Explanation:

The correct answer is It happens when people are not able to find jobs during some months of the year.

★ Key Points

- **Seasonal unemployment** occurs when people are unemployed at particular times of the year when demand for labour is lower than usual.
- **Seasonal unemployment refers to a temporary window of time** where the number of available employment opportunities decreases.
- **The cause of seasonal unemployment are Lack of multiple cropping, Lack of small-scale and cottage industries in rural areas, Lack of commercialisation of agriculture.**

★ Additional Information

- Types of Unemployment in India:

- Disguised Unemployment:
 - It is a phenomenon wherein more people are employed than actually needed.
 - It is primarily traced in the agricultural and unorganised sectors of India.
- Seasonal Unemployment:
 - It is unemployment that occurs during certain seasons of the year.
 - Agricultural labourers in India rarely worked throughout the year.
- Cyclical Unemployment:
 - It is the result of the business cycle, where unemployment rises during recessions and declines with economic growth.
 - Cyclical unemployment figures in India are negligible.
 - It is a phenomenon that is mostly found in capitalist economies.
- Technological Unemployment:
 - It is the loss of jobs due to changes in technology.
 - In 2016, World Bank data predicted that the proportion of jobs threatened by automation in India is 69% year-on-year.
- Frictional Unemployment:
 - Frictional Unemployment also called Search Unemployment, refers to the time lag between the jobs when an individual is searching for a new job or is switching between the jobs.
 - In other words, an employee requires time for searching for a new job or shifting from the existing to a new job, this inevitable time delay causes frictional unemployment.
 - It is often considered voluntary unemployment because it is not caused due to the shortage of jobs, but in fact, the workers themselves quit their jobs in search of better opportunities.
- Vulnerable Employment:
 - This means, people, working informally, without proper job contracts and thus sans any legal protection.
 - These persons are deemed 'unemployed' since records of their work are never maintained.
 - It is one of the main types of unemployment in India.

94. Answer: c

Explanation:

The correct answer is **Mercury**.

★ Key Points

- Mercury is the **first planet** from the sun in the solar system as well as the **smallest planet among the eight planets**.
- **Its orbit around the Sun takes 87.97 Earth days**.
- Mercury has the **most craters in the Solar System**.
- Mercury planet has no satellite of its own.

★ Additional Information

- Earth
 - Earth is the third planet from the sun in our solar system
 - It is the only planet in our solar system known to support life.
 - The moon is the only natural satellite of the earth.
- Venus
 - It is the brightest planet in the Solar System.
 - The revolution period of Venus is 225 days.
 - It is also known as Evening and Morning Star.
 - It is the hottest planet in the Solar System.
- Mars
 - Mars is known as Red Planet because rusty iron is present in the ground.
 - It has a thin atmosphere.
 - Methane has been detected in the Martian atmosphere.
 - The seasons of Mars are the most Earth-like.

95. Answer: d

Explanation:

The correct answer is Lavani.

★ Key Points

- Lavani is a folk dance of Maharashtra.
- It is a combination of traditional song and dance. Which is particularly performed to the beats of Dholki.
- Lavani is noted for its powerful rhythm and has contributed substantially to the development of Marathi folk theatre.

★ Additional Information

- Bhangra refers to several forms of folk dance and music that originated in the Punjab region of India.
- Jhumar is an Indian folk dance from the Indian states of Bihar, Jharkhand, Chhattisgarh, Odisha and West Bengal.
- Kathak is one of the eight major forms of Indian classical dance, which originated in the state of Uttar Pradesh.

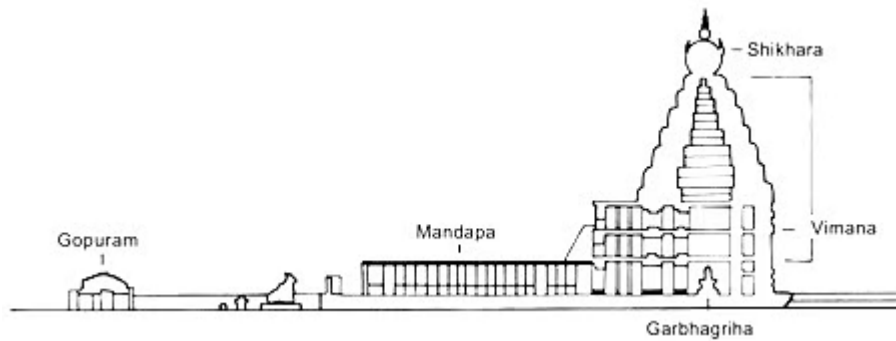
96. Answer: c

Explanation:

The correct is Vimana.

★ Key Points

- Vimana is a representation of Vishnu's most powerful weapon, the Sudarshana chakra.
- The Vimana of the Konark Sun Temple was the tallest of all vimana before it well.
- A Vimana is a word with several meanings ranging from temple or palace to mythological flying machines described in Sanskrit texts like Yajurveda.



★ Additional Information

- A **garbhagriha** is the sanctum, the innermost sanctuary of Hindu and Jain temples where resides the murti of the primary deity of the temple.
- **Mandapa** in Indian architecture is a pillared hall for public rituals.
- **Vahan** is the name of the national vehicle registry.

97. Answer: b

Explanation:

The correct answer is Plastids.

★ Key Points

- An organelles is a subcellular structure that has one or more specific jobs to perform in the cell.
- An animal cell is a type of eukaryotic cell that lacks a cell wall and has a true, membrane-bound nucleus along with other cellular organelles.
- Plastids are found in all plant cells and in euglenoids and not in animal cells.
 - These are easily observed under the microscope as they are large.
 - They bear some specific pigments, thus imparting specific colours to the plants.
 - Based on the type of pigments plastids can be classified into chloroplasts, chromoplasts and leucoplasts.
 - The chloroplasts contain chlorophyll and carotenoid pigments which are responsible for trapping light energy essential for photosynthesis.

- In the chromoplasts fat-soluble carotenoid pigments like carotene, xanthophylls and others are present. This gives the part of the plant a yellow, orange or red colour.
- The leucoplasts are the colourless plastids of varied shapes and sizes with stored nutrients: Amyloplasts store carbohydrates (starch), e.g., potato; elaioplasts store oils and fats whereas the aleuroplasts store proteins.
- The majority of the chloroplasts of the green plants are found in the mesophyll cells of the leaves.
- These are lens-shaped, oval, spherical, discoid or even ribbon-like organelles having a variable length (5-10 μ m) and width (2-4 μ m).
- Their number varies from 1 per cell of the Chlamydomonas, a green alga to 20-40 per cell in the mesophyll.
- Like mitochondria, the chloroplasts are also double membrane-bound.
- Of the two, the inner chloroplast membrane is relatively less permeable.

★ Additional Information

- **Ribosomes are macromolecular machines**, found within all cells, that perform biological protein synthesis.
- **Lysosomes are membrane-enclosed organelles** that contain an array of enzymes capable of breaking down all types of biological polymers—proteins, nucleic acids, lipids and carbohydrates.
- **Mitochondria are membrane-bound cell organelles** that generate most of the chemical energy needed to power the cell's biochemical reactions.

98. Answer: b

Explanation:

The correct answer is Article 110.

★ Key Points

- A money bill is defined by Article 110 of the Constitution, as a draft law that contains only provisions that deal with all or any of the matters listed therein.
 - The imposition, abolition, remission, alteration, or regulation of any tax.

- The regulation of the borrowing of money by the Union government.
- The custody of the Consolidated Fund of India or the contingency fund of India, the payment of money into or the withdrawal of money from any such fund
- The appropriation of money out of the Consolidated Fund of India.
- Declaration of any expenditure charged on the Consolidated Fund of India or increasing the amount of any such expenditure.
- The receipt of money on account of the Consolidated Fund of India or the public account of India or the custody or issue of such money, or the audit of the accounts of the Union or of a state.

★ Additional Information

- **Article 128:** Attendance of retired Judges at sitting of the Supreme Court.
- **Article 139:** It states that the Parliament may by law confer on the Supreme Court power to issue directions, orders or writs.
- **Article 115:** It pertains to supplementary, additional or excess grants.

99. **Answer: c**

Explanation:

The correct answer is **Krishi Udan 2.0**.

★ Key Points

- **Krishi Udan 2.0 was announced on 27 October 2021** enhancing the existing provisions, mainly focusing on transporting perishable food products from the hilly areas, Northi-Eastern States and tribal areas.
- Union Minister of Civil Aviation Jyotiraditya Scindia released Krishi UDAN 2.0.
- The scheme proposes to facilitate and incentivize the movement of Agri-produce by air transportation.
- It lays out the vision of improving value realization through better integration and optimization of Agri-harvesting and air transportation.
- It works by contributing to Agri-value chain sustainability and resilience under different and dynamic conditions.

- It will be implemented at 53 airports across the country mainly focusing on Northeast and tribal regions and is likely to benefit farmers, freight forwarders, and Airlines.
- Key highlights of the scheme
 - Facilitating and incentivizing movement of Agri-produce by air transportation: Full waiver of Landing, Parking, TNLC, and RNFC charges for Indian freighters and P2C at selected Airports. Primarily, focusing on NER, Hilly, and tribal regions.
 - Strengthening cargo-related infrastructure at airports and off airports: Facilitating the development of a hub and spoke model and a freight grid.
 - Concessions sought from other bodies: Seek support and encourage States to reduce Sales Tax to 1% on aviation fuels for freighters / P2C aircraft as extended in UDAN flights.
 - Resources-Pooling through establishing Convergence mechanism: Collaboration with other government departments and regulatory bodies.
 - Technological convergence: Development of E-KUSHAL (Krishi UDAN for Sustainable Holistic Agri-Logistics).

★ **Additional Information**

- **Krishi UDAN Scheme was launched in August 2020**, on international and national routes to assist farmers in transporting agricultural products so that it improves their value realisation.
- **In Regional Connectivity Scheme**, under RCS planes are to connect these underserved airports to key airports through flights that will cost Rs 2,500 per hour flight.
- The mass outreach program called "**SAMBHAV National Level Awareness Programme**" will run for one month under the Ministry of MSME.

100. **Answer: a**

Explanation:

The correct answer is Night blindness.

★ Key Points

- Vitamin A is important for normal vision, the immune system, reproduction, and growth and development.
- Vitamin A also helps your Heart, Lungs, and other organs work properly.
- Carotenoids are pigments that give yellow, orange, and red fruits and vegetables their color.

★ Additional Information

- Scurvy results from a deficiency of Vitamin C in the diet.
- Marasmus causes visible wasting of Fat and Muscle under the skin, giving bodies an emaciated appearance.
- Kwashiorkor is a severe form of malnutrition.

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