

# Prepp

## Your Personal Exams Guide



NDA



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IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

# SSC MTS Previous Year Paper (Held on: 7 Oct 2021 Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

## Instructions

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

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

## General English

1. Select the most appropriate 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)

I rang up an old friend of mine but she doesn't pick out the phone.

- a. didn't pick up
- b. No substitution required
- c. wasn't picked up
- d. isn't pick out

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

Fear of closed spaces

- a. Aquaphobia
- b. Claustrophobia
- c. Agoraphobia
- d. Acrophobia

- 
3. Identify the segment in the sentence which contains a grammatical error. (+1, -0.25)

Since India has started doing well in hockey it had once again become a popular sport.

- a. become a popular sport

- b. it had once again
  - c. doing well
  - d. Since India
- 

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

FRIEND

- a. Helper
  - b. Foe
  - c. Companion
  - d. Partner
- 

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

- a. Approachable
  - b. Amiable
  - c. Amanable
  - d. Amicable
- 

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

CLEAR

- a. Black
- b. Clean



- c. Murky
  - d. White
- 

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

The lockdowns has give many parents and grandparents the opportunity to share some of my nostalgic memories with their children and grandchildren.

- a. had gave; of his
  - b. have given; of her
  - c. have given; of their
  - d. No substitution required
- 

8. Identify the segment in the sentence which contains a grammatical error. (+1, -0.25)

There was many people who voted for him.

- a. who voted
  - b. for him
  - c. many people
  - d. There was
- 

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

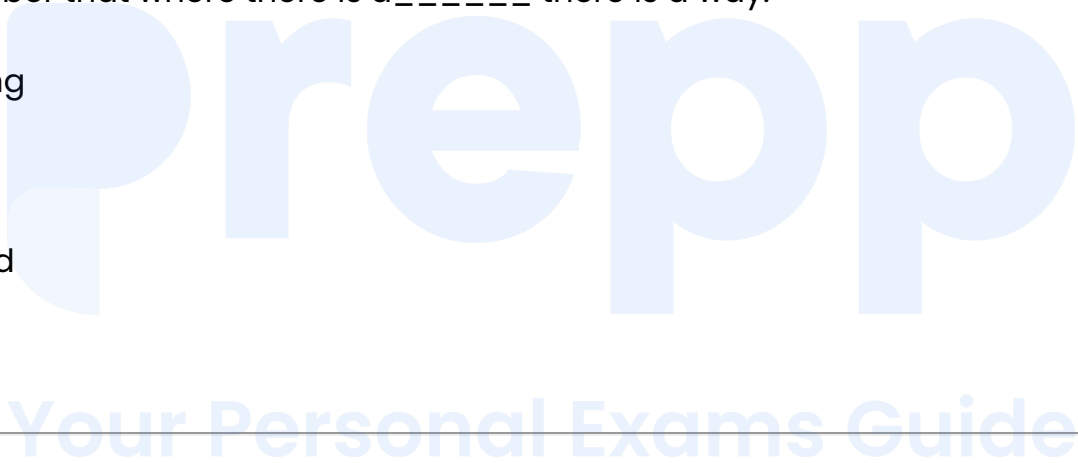
In India, people of all religions and castes live together and they are\_\_\_\_\_ in spite of cultural differences.

- a. learned
  - b. united
  - c. confused
  - d. shared
- 

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

Remember that where there is a\_\_\_\_\_ there is a way.

- a. willing
  - b. Will
  - c. willed
  - d. wills
- 



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

How time flies!

- a. Difficult to pass time
  - b. Time seems to stay still
  - c. A clock going very fast
  - d. Time seems to move quickly
-

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

(+1, -0.25)

Raining cats and dogs

- a. Raining very heavily
- b. Having lots of pets around you
- c. Facing light rain and wind
- d. Worried about cats and dogs

13. Select the word which means the same as the group of words given.

(+1, -0.25)

One who leaves one's country to settle in another

- a. Citizen
- b. Emigrant
- c. Immigrant
- d. Foreigner

14. Select the most appropriate synonym of the given word.

(+1, -0.25)

FOWL

- a. Unfair
- b. Bird
- c. Mistake
- d. Dirty

15. Select the most appropriate synonym of the given word.

(+1, -0.25)

ICONIC

- a. General
  - b. Unimportant
  - c. Exemplary
  - d. Manageable
- 

16. Identify the segment in the sentence which contains a grammatical error.

(+1, -0.25)

Sumit has decided to brought his car for the picnic

- a. has decided
  - b. to brought
  - c. for the picnic
  - d. his car
- 

17. Select the INCORRECTLY spelt word.

(+1, -0.25)

- a. Fabulus
  - b. Farther
  - c. Fasting
  - d. Further
-

18. Select the most appropriate word to fill in the blank.

(+1, -0.25)

Going by the current pace of work, I \_\_\_\_\_ think this will finish by Sunday.

- a. shan't
- b. don't
- c. won't
- d. couldn't

19. Select the most appropriate word to fill in the blank.

(+1, -0.25)

The teacher was very \_\_\_\_\_. She never let anyone play pranks in her class.

- a. happy
- b. lenient
- c. jovial
- d. strict

20. 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)

People are slowly returning to their normal routine after opening up of the lockdown.

- a. No substitution required

- b. closing up
- c. opening down
- d. closing

---

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

A computer programmer, sometimes (1)\_\_\_\_\_ software developer, a programmer or more recently a coder, (2)\_\_\_\_\_ a person who creates computer software. The term 'computer programmer' can (3)\_\_\_\_\_ to a specialist in the area of computers, or to a generalist (4)\_\_\_\_\_ writes codes for many kinds of software. Some programmers who (5)\_\_\_\_\_ web programming languages add a prefix, a suffix, or both to every page's title.

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

- a. accepted
- b. called
- c. said
- d. known

---

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

A computer programmer, sometimes (1)\_\_\_\_\_ software developer, a programmer or more recently a coder, (2)\_\_\_\_\_ a person who creates computer software. The term 'computer programmer' can (3)\_\_\_\_\_ to a

specialist in the area of computers, or to a generalist (4)\_\_\_\_\_ writes codes for many kinds of software. Some programmers who (5)\_\_\_\_\_ web programming languages add a prefix, a suffix, or both to every page's title.

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

- a. is
- b. was
- c. has
- d. were

---

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

A computer programmer, sometimes (1)\_\_\_\_\_ software developer, a programmer or more recently a coder, (2)\_\_\_\_\_ a person who creates computer software. The term 'computer programmer' can (3)\_\_\_\_\_ to a specialist in the area of computers, or to a generalist (4)\_\_\_\_\_ writes codes for many kinds of software. Some programmers who (5)\_\_\_\_\_ web programming languages add a prefix, a suffix, or both to every page's title.

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

- a. mean
- b. specify
- c. refer
- d. know



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

A computer programmer, sometimes (1)\_\_\_\_\_ software developer, a programmer or more recently a coder, (2)\_\_\_\_\_ a person who creates computer software. The term 'computer programmer' can (3)\_\_\_\_\_ to a specialist in the area of computers, or to a generalist (4)\_\_\_\_\_ writes codes for many kinds of software. Some programmers who (5)\_\_\_\_\_ web programming languages add a prefix, a suffix, or both to every page's title.

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

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

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

A computer programmer, sometimes (1)\_\_\_\_\_ software developer, a programmer or more recently a coder, (2)\_\_\_\_\_ a person who creates computer software. The term 'computer programmer' can (3)\_\_\_\_\_ to a specialist in the area of computers, or to a generalist (4)\_\_\_\_\_ writes codes for many kinds of software. Some programmers who (5)\_\_\_\_\_ web programming languages add a prefix, a suffix, or both to every page's title.

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

- a. study with
- b. work with
- c. work of
- d. display at

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## General Intelligence & Reasoning

26. P, Q, R, S, T, U and V are standing in a queue.

(+1, -0.25)

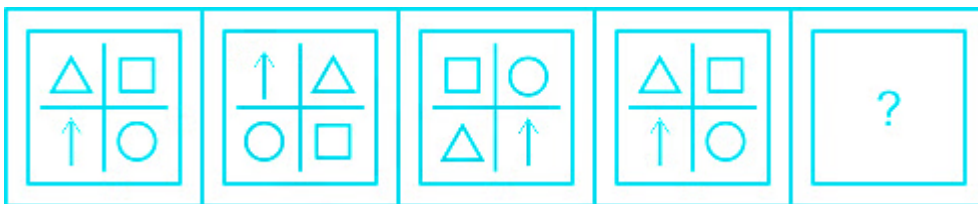
- i. T is just behind P.
- ii. V is just in front of Q, who is not the last person.
- iii. S is between P and R.
- iv. There is one person between T and Q.

Who is the last person in the queue?

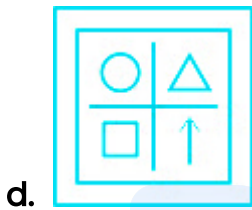
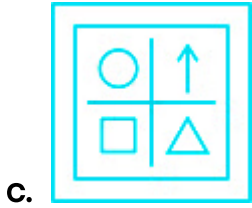
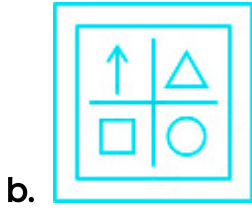
- a. T
- b. S
- c. Q
- d. U

27. Which figure will replace the question mark (?) in the following figure series?

(+1, -0.25)



- a.



28. Four girls A, B, C and D, and four boys P, Q, R and S, are sitting around a round table facing the centre. (+1, -0.25)

- i. No two girls or boys are sitting next to each other.
- ii. Q is sitting to the immediate left of B.
- iii. S is sitting between A and D and is facing R.

Who is sitting between P and R?

- a. A
- b. D
- c. B
- d. C

29. As 'Cataract' is related to 'Ophthalmology', in the same way 'Neurosis' is related to '\_\_\_\_\_'. (+1, -0.25)

- a. Sociology
- b. Biology
- c. Neurology
- d. Psychology

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



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

d.

---

31. If NATURE is coded as MCQYMK, then how would CREST be coded? (+1, -0.25)

- a. CPHOY
  - b. BTBWO
  - c. BTBOY
  - d. BTHKO
- 

32. If PAYMENT is coded as 7174552, then how would YOUNGER be coded? (+1, -0.25)

- a. 7153540
  - b. 2121751
  - c. 7635759
  - d. 5514758
- 

33. 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)

SPIKE : QRHDL :: JINGO : ?

- a. JIMNH
- b. HKOPF
- c. KLMNE
- d. MNHIJ

34. Which two signs should be interchanged to make the given equation correct? (+1, -0.25)

$$8 + 6 \times 4 \div 2 - 10 = 6$$

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

35. Three statements are followed by three conclusions numbered I, II and III. Assuming the statements to be true even if they do not conform to real-world knowledge, decide which of the conclusion(s) logically follows/follow from the statements. (+1, -0.25)

**Statements**

- 1. All managers are employees.
- 2. All seniors are managers.
- 3. Some seniors are pensioners.

**Conclusions:**

- I. Some pensioners are employees.
  - II. Some managers are pensioners.
  - III. All employees are seniors.
- a. Only conclusions I and III follow
  - b. Only conclusions I and II follow



- c. All conclusions I, II and III follow
- d. Only conclusion I follows

---

36. Seven different coloured books are kept one after the other. (+1, -0.25)

- i. The RED book is just on the top of the ORANGE book.
- ii. The BLUE book is between the GREEN and the YELLOW books.
- iii. The VIOLET book is between the GREEN and the BLACK books.
- iv. There are as many books between the GREEN and the RED books as there are between the BLACK and the BLUE books.

If the YELLOW book is on the top, which book is exactly in the middle?

- a. GREEN
- b. RED
- c. VIOLET
- d. ORANGE

---

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

3, 7, 22, 45, 136, ?, 820

- a. 273
- b. 409
- c. 517
- d. 293

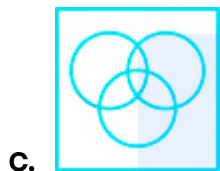
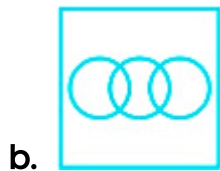
38. If PEARS is coded as 101 and CAT is coded as 49, then how would MEAL be coded? (+1, -0.25)
- a. 31
  - b. 73
  - c. 63
  - d. 77
- 

39. Select the number-pair in which the two numbers are related in the same way as the two numbers of the pair given below. (+1, -0.25)
- 11 : 72
- a. 9 : 48
  - b. 3 : 7
  - c. 15 : 95
  - d. 7 : 32
- 

40. 'Water' is related to 'Filter' in the same way as 'Film' is related to '-----'. (+1, -0.25)
- a. Casting
  - b. Producer
  - c. Director
  - d. Censor
-

41. Select the Venn diagram that best illustrates the relationship among the following classes. (+1, -0.25)

Females, Relatives, Uncles



42. Two statements are followed by two conclusions numbered I and II. (+1, -0.25)  
Assuming the statements to be true even if they do not conform to real-world knowledge, decide which of the conclusion(s) logically follows/follow from the statements.

**Statements:**

- 1. All hostels are buildings.
- 2. Some buildings are palaces.

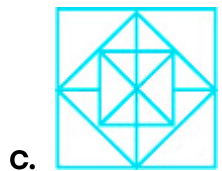
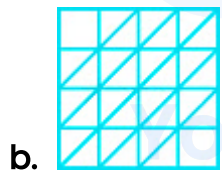
**Conclusions:**

- I. Some palaces are hostels.

II. No palace is a hostel.

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

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



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

BDF, HKN, PRT, VYB, DFH, ?

- a. KNQ
- b. JMP
- c. JLN
- d. JLK

45. Choose the set of numbers that is similar to the following set. (+1, -0.25)

{12, 18, 6}

- a. {18, 9, 8}
- b. {9, 14, 11}
- c. {15, 13, 11}
- d. {16, 12, 8}

46. If the signs - and + are interchanged, then which of the following equations would be correct? (+1, -0.25)

- a.  $10 \div 5 - 10 + 5 = 8$
- b.  $9 - 6 \times 2 + 8 = 11$
- c.  $12 + 3 \times 2 - 4 = 10$
- d.  $7 \times 3 + 9 - 6 = 17$

47. If HOARDING is coded as NGQZHCFM, then how would TREATISE be coded? (+1, -0.25)

- a. QSZDHSDR
- b. DQSHSZDR
- c. QSSHDZRD
- d. SUBRJUET

48. Select the mirror image of the figure, when the mirror is placed on the right side of the figure. (+1, -0.25)



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

49. Select the option figure, which when placed in the blank space of the figure marked 'X', would complete the pattern. (+1, -0.25)



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

2, 3, 6, 10, 17, ?

- a. 28
- b. 25
- c. 27
- d. 30



## Numerical Aptitude

51. The total number of students in class A and B is 72. The number of students in A is 40% more than that in B. The average marks of students in B are 50% more than that of students in A. If the average marks of all the students in A and B are 58, then what are the average marks of students in A? (+1, -0.25)
- a. 58
- b. 50
- c. 48
- d. 72
- 
52. If the annual rate of simple interest increases from 8% to  $12\frac{1}{2}$  %, a person's yearly income increased by Rs. 639. The principal amount (in Rs) is: (+1, -0.25)
- a. 8,200
- b. 14,200
- c. 12,500
- d. 11,250
- 
53. A raw data is in ascending order, i.e. 3, 4, 7, x, x + 1, 12, 13, 15 . If the median of This data is 9.5, then x is equal to: (+1, -0.25)
- a. 7.5
- b. 9

c. 8

d. 8.5

---

54. The ratio of the speeds of two trains is 5 : 8. If the second train runs 600 km in 4 hours, then the speed of the first train (in km/h) is: (+1, -0.25)

a. 37.75

b. 62.5

c. 25.5

d. 93.75

---

55.  $\frac{\frac{3}{7} + 1\frac{2}{3} \times 6 - (3\frac{1}{2} \div \frac{3}{5} \text{ of } \frac{7}{9}) \text{ of } \frac{2}{3}}{\frac{1}{7}(4 \div \frac{1}{5} \text{ of } 10) - 3}$  (+1, -0.25)

a. 2

b.  $-\frac{71}{57}$

c. -2

d. -38

---

56. A sum of money is distributed among P, Q, R and S in the ratio 3 : 4 : 5 : 6, respectively. If R gets Rs. 500 more than P, then the sum of all their shares (in Rs) is: (+1, -0.25)

a. 5000

b. 7,500

c. 4,500

d. 6,000

---

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

a. 20,000

b. 27,500

c. 25,000

d. 30,000

---

58. If the length of a rectangle is increased by 40%, what would be the percentage decrease (correct to one place of decimal) in the width to maintain the same area? (+1, -0.25)

a. 42.5%

b. 28.6%

c. 37.5%

d. 33.5%

---

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

a. 222

b. 246

---

c. 217

d. 231

---

60. A sum of money doubled itself at a certain rate of compound interest in 10 years. In how many years will it become eight times? (+1, -0.25)

a. 30

b. 15

c. 45

d. 25

---

61. When  $x$  is subtracted from each of 21, 22, 60, and 64, the numbers so obtained in this order are in proportion. What is the mean proportional between  $(x + 4)$  and  $(\frac{x}{2} - 1)$ ? (+1, -0.25)

a. 8

b. 6

c. 5

d. 12

---

62. The marked price of an article is Rs. 5,450. If a person earns a profit of 15% after allowing a discount of 15%, then the cost price (in Rs) (correct to the nearest integer) of the article is: (+1, -0.25)

a. 4,189

b. 4,028

- c. 4,498
  - d. 4,289
- 

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

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

64. If the radius of a circle is increased by 23%, then by what percentage will its area increase? **(+1, -0.25)**

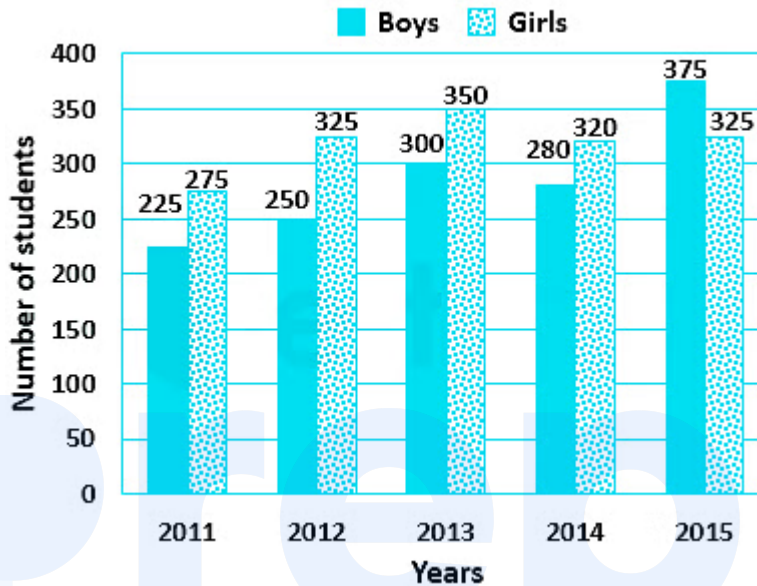
- a. 32.85%
  - b. 51.29%
  - c. 41.61%
  - d. 27.89%
- 

65. If the HCF of two numbers is 6 and LCM of the same two numbers is 54, then the square root of the product of these numbers is: **(+1, -0.25)**

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

d. 18

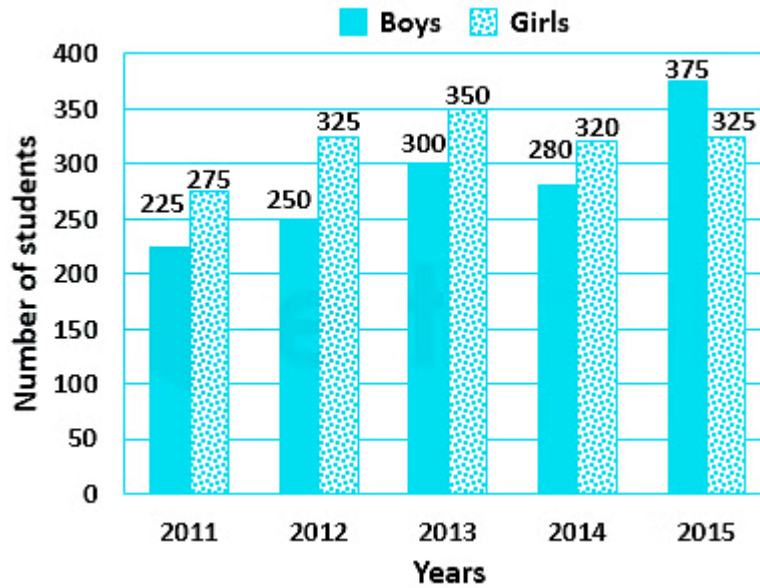
66. Study the following graph that shows the number of boys and girls who appeared for the Class X examination in a school XYZ, in different years. (+1, -0.25)



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

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

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



The total number of girls who appeared in 2012, 2013, 2014 and 2015 is what percentage less than the total number of boys who appeared in all the five years? (correct to one decimal place)

- a. 6.6%
- b. 9.7%
- c. 7.7%
- d. 10.1%

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68. When an article is sold for Rs. 388, there is a loss of 3%. What is the selling price (in Rs.) of the article, if it is sold at a gain of 18%? (+1, -0.25)

- a. 432
- b. 444
- c. 460
- d. 472



69. The value of  $0.2 \div 0.025 + 39 + 0.92 \div 0.2 \times 5 - 4.9 \div 0.07$  is: (+1, -0.25)

- a. 1
- b. 0.15
- c. 0.5
- d. 0

---

70. 'A' can complete a work in 15 days and 'B' can complete the same work in 20 days. Working together, in how many days will they complete 70% of the same work? (+1, -0.25)

- a. 7
- b. 5
- c. 6
- d. 8



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71. A tank is 25 m long, 12 m wide and 6 m deep. The cost (in Rs) of plastering its walls and bottom at Rs. 10 per  $m^2$  is: (+1, -0.25)

- a. 11,160
- b. 6,275
- c. 12,500
- d. 7,440

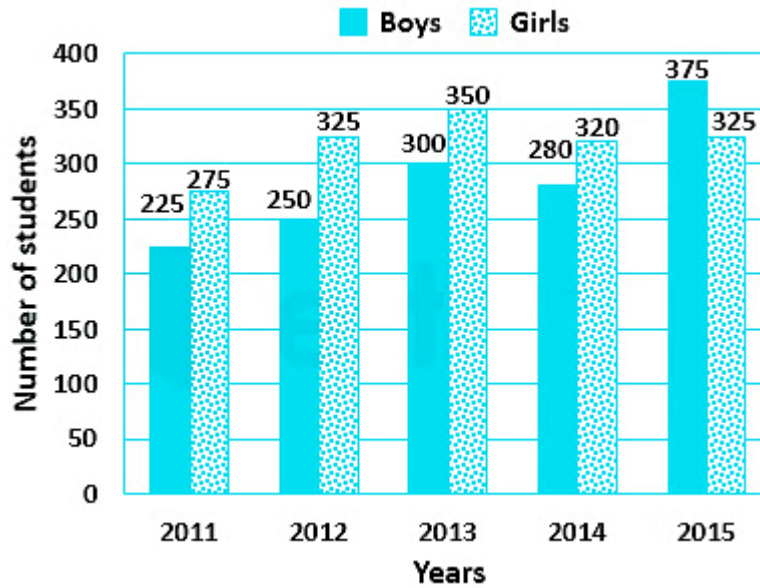
72. 'A' can complete 40% of a work in 6 days, while 'B' can complete the work in  $7\frac{1}{2}$  days. If they work together, then in how many days will the work be completed? **(+1, -0.25)**

- a. 4
- b. 5
- c. 6
- d. 7

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

- a. 78
- b. 75
- c. 72
- d. 80

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



The average of the number of boys who appeared in 2011, 2013, and 2015 is what percentage less than the number of girls who appeared in 2014?

- a. 8.15%
- b. 6.25%
- c. 7.75%
- d. 6.5%

Your Personal Exams Guide

75. In a constituency, 60% of the voters are males and the rest are females. (+1, -0.25)  
 40% of the males are illiterate and 25% of the females are literate. By what percentage is the number of illiterate males more than that of literate females?
- a. 125%
  - b. 120%
  - c. 140%
  - d. 115%

## General Awareness

76. Which of the following cricketers was described as 'Mr. Incredible' by the captain of the England Test Cricket team in July 2020? (+1, -0.25)
- a. Stuart Broad
  - b. Chris Woakes
  - c. Jason Roy
  - d. Ben Stokes
- 
77. Part \_\_\_\_\_ of the Constitution of India provides for freedom of trade and commerce within the country. (+1, -0.25)
- a. 10
  - b. 13
  - c. 15
  - d. 20
- 
78. The \_\_\_\_\_ is celebrated at Shilpgram in February every year. (+1, -0.25)
- a. Taj Mahotsav
  - b. Ziro Festival
  - c. Tansen Music Festival
  - d. Natyanjali Nritya Utsav
-

79. Which of the following was **NOT** included in the definition of 'children' by the Maintenance and Welfare of Parents and Senior Citizens Act, 2007? (+1, -0.25)

- a. Adult daughter
- b. Minor son
- c. Adult grandson
- d. Adult son

80. Which of the following is **NOT** an Olympic event? (+1, -0.25)

- a. Acrobatic gymnastics
- b. Trampoline gymnastics
- c. Rhythmic gymnastics
- d. Artistic gymnastics

81. Which of the following is **NOT** a part of the hind-brain? (+1, -0.25)

- a. Pons
- b. Medulla
- c. Cerebellum
- d. Hypothalamus

82. All acids generate \_\_\_\_\_ gas on reacting with metals. (+1, -0.25)

- a. hydrogen
  - b. chlorine
  - c. nitrogen
  - d. oxygen
- 

83. About 50% of the \_\_\_\_\_ Basin lies in Maharashtra. (+1, -0.25)

- a. Kaveri
  - b. Narmada
  - c. Mahanadi
  - d. Godavari
- 

84. The absolute refractive index of \_\_\_\_\_ is 2.42. (+1, -0.25)

- a. crown glass
  - b. air
  - c. diamond
  - d. water
- 

85. Which of the following statements is **INCORRECT** ? (+1, -0.25)

- a. The liver is reddish brown in colour.
- b. The liver secretes bile.

- c. The liver is situated in the upper part of the abdomen on the left side.
  - d. The liver is the largest gland in the body.
- 

86. The Oudh Kisan Sabha was set up in the year\_\_\_\_\_ ( +1, -0.25)

- a. 1924
  - b. 1920
  - c. 1921
  - d. 1918
- 

87. 'Boy : Tales of Childhood' is an autobiographical book by\_\_\_\_\_ ( +1, -0.25)

- a. Mark Twain
  - b. Roald Dahl
  - c. Lewis Carroll
  - d. Ruskin Bond
- 

88. India's average exponential growth rate (population) for the period 2001- 2011 was\_\_\_\_\_ % per annum. ( +1, -0.25)

- a. 0.46
- b. 2.38
- c. 1.64

d. 3.82

---

89. National Waterway-1 of India covers: (+1, -0.25)

- a. Assam-Mizoram stretch of Barak river
  - b. Haldia-Allahabad stretch of the Ganga-Bhagirathi-Hooghly river
  - c. Kollam-Kottapuram stretch of West Coast Canal and Champakara and Udyogmandal canals
  - d. Sadiya-Dhubri stretch of the Brahmaputra river
- 

90. Which of the following dams is located in Madhya Pradesh? (+1, -0.25)

- a. Koyna
  - b. Tawa
  - c. Isapur
  - d. Ujjani
- 

91. Rathwa ni Gher is a dance performed on the occasion of\_\_\_\_\_ by the (+1, -0.25)  
Rathwa tribe of Gujarat.

- a. Dussehra
  - b. Janmashtami
  - c. Holi
  - d. Makar Sankranti
-



92. Which Indian state recorded the highest GST revenue collection for December 2019? (+1, -0.25)
- a. Maharashtra
  - b. Karnataka
  - c. Gujarat
  - d. Punjab
- 

93. Which of the following palaces is located in Thiruvananthapuram? (+1, -0.25)
- a. Chowmahalla Palace
  - b. Kanakakkunnu Palace
  - c. Ujjayanta Palace
  - d. Amber Palace
- 

94. Pandit Madan Mohan Malviya is credited with popularising the slogan '-----': (+1, -0.25)
- a. Vande Mataram
  - b. Jai Jawan Jai Kisan
  - c. Satyameva Jayate
  - d. Inquilab Zindabad
- 

95. Gandhiji delivered the famous 'Do or Die' speech on ----- (+1, -0.25)
-

- a. 14 July 1942
  - b. 23 March 1942
  - c. 8 August 1942
  - d. 24 September 1942
- 

96. \_\_\_\_\_ succumbed to injuries inflicted on him during a peaceful demonstration against the Simon Commission. (+1, -0.25)

- a. Bal Gangadhar Tilak
  - b. Bipin Chandra Pal
  - c. Gopal Krishna Gokhale
  - d. Lala Lajpat Rai
- 

97. Which microorganism among the following causes Cholera? (+1, -0.25)

- a. Protozoa
  - b. Bacteria
  - c. Virus
  - d. Fungi
- 

98. Which of the following environmentalists was awarded the Stockholm Water Prize in 2015? (+1, -0.25)

- a. Anadish Pal

- b. Rajendra Singh
  - c. Vandana Shiva
  - d. Tulsi Gowda
- 

99. 'PENCIL' is an acronym for \_\_\_\_\_ an electronic portal launched by the Government of India in September 2017. (+1, -0.25)

- a. Paradigm for Enforcement of Equality for Needy Child Labourers
  - b. Platform for Effective Enforcement for No Child Labour
  - c. Promulgation of Exhaustive Education for Normal & Comprehensive Learning
  - d. Protocol for Easy Education & Novel Creative Learning
- 

100. The 'Clean Note Policy' was announced by the Reserve Bank of India in the year \_\_\_\_\_ (+1, -0.25)

- a. 1995
- b. 1999
- c. 1992
- d. 1997

## Answers

### 1. Answer: a

#### Explanation:

The correct answer is 'didn't pick up'.

#### ★ Key Points

- The given sentence is grammatically incorrect.
- The correct **phrasal verb** in the given context is 'pick up'.
- It means '**to answer the phone**' .
  - *Example: I tried his home number but he didn't pick up.*
- Whereas, the phrasal verb 'pick out' means '**distinguish someone or something from a group**'.
- The given sentence is in the **past tense** . Hence, a past helping verb 'didn't' should be used.

**Correct Sentence:** *I rang up an old friend of mine but she didn't pick up the phone.*

#### ★ Hinglish

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- दिए गए संदर्भ में सही **phrasal verb** 'pick up' है।
- इसका मतलब है '**फोन का जवाब देना**' ।
  - *Example: I tried his home number but he didn't pick up.*
- जबकि, phrasal verb 'pick out' का अर्थ है '**किसी को या किसी समूह से अलग करना**' ।
- दिया गया वाक्य **past tense** में है। इसलिए, **past** की **helping verb** 'didn't' का प्रयोग किया जाना चाहिए।

### 2. Answer: b

#### Explanation:

The correct answer is ' **Claustrophobia** '.

★ Key Points

- The most appropriate meaning of the given group of words is ' **Claustrophobia** '.
- It means '**fear of being in a small or enclosed space**'. (संकीर्ण या बंद स्थान में सीमित होने का भय; संवृत-स्थानभीति)
  - Example: He suffers from **claustrophobia** so he never travels on underground trains.

Correct Answer: *Claustrophobia*.

★ Additional Information

- Let's look at the **meaning** of other words:
  - **Aquaphobia** : strong and unreasonable fear of water or of drowning. (पानी या डूबने का एक मजबूत और अनुचित डर)
    - For Example - He developed **aquaphobia** and did not swim in water for several years.
  - **Agoraphobia** : fear of being in public places where there are a lot of people. (सार्वजनिक या भीड़भाड़ वाली जगह में जाने से डर; विवृत-स्थान-भीति)
    - For Example - I get **agoraphobia** , claustrophobia, and fear of heights all at the same time.
  - **Acrophobia** : extreme or irrational fear of heights. (ऊंचाई का अत्यधिक या तर्कहीन भय)
    - For Example - Many people suffer from very serious **acrophobia** .

3. Answer: b

**Explanation:**

The correct answer is '**it has once again**'.

★ Key Points

- The given sentence is grammatically incorrect.
- Here, '**it has once again**' should be used instead of '**it had once again**'.

- The given sentence is in **the present perfect tense**.
- **The present perfect** is often used for an **action** that started at some time in the **past** and is still **continuing now**.
- Hence, the '**present perfect form**' i.e. '**has**' of the **verb** should be used.

**Correct Sentence:** *Since India has started doing well in hockey it has once again become a popular sport.*

★ Hinglish

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहाँ, '**it had once again**' के बजाय '**it has once again**' का उपयोग किया जाना चाहिए।
- दिया गया वाक्य **present perfect tense** में है।
- **Present Perfect** का उपयोग अक्सर उस **action** के लिए किया जाता है जो अतीत में किसी समय शुरू हुई थी और अब भी जारी है।
- अतः **Verb** के '**present perfect form**' अर्थात '**has**' का प्रयोग करना चाहिए।

4. Answer: b

**Explanation:**

The correct answer is '**Foe**'.

★ Key Points

- The most appropriate **antonym** of the given word '**Friend**' is '**Foe**'.
- **Friend** : a person that you know and like (not a member of your family), and who likes you. [मित्र, दोस्त (जो परिवार का सदस्य नहीं है)]
  - Example: Seema and I are old **friends**. We were at school together.
- **Foe** : an enemy. (शत्रु, दुश्मन)
  - Example: His **foe** was a worthy antagonist.

**Correct Answer:** *Foe.*

★ Additional Information

- Let's look at the **meaning** of other words:

- **Helper** : a person who helps (especially with work) [सहायक]
- **Companion** : a person or animal with whom you spend a lot of time or go somewhere. [साथी, सखा, सहचर (मनुष्य या पशु)]
- **Partner** : the person that you are married to or live with as if you are married. (विवाहित या विवाहित जैसे जीवन का संगी या साथी)

## 5. Answer: c

### Explanation:

The correct answer is ' **Amanable** '.

#### ★ Key Points

- Among the given options, the incorrectly spelt word is ' **Amanable** '.
- Its correct spelling is ' **Amenable** '.
- It means '**happy to accept something; willing to be influenced by somebody/something**'. (खुशी से स्वीकार करने वाला; स्वेच्छा से प्रभावित होने वाला)
  - *Example: I'm **amenable** to any suggestions you may have.*

#### ★ Additional Information

- Let's look at the **meaning** of other words:
  - **Approachable** : friendly and easy to talk to. (बातचीत में सहज तथा मित्रवत; मिलनसार)
  - **Amiable** : friendly and pleasant. (मैत्रीपूर्ण और सौहार्दपूर्ण; मिलनसार)
  - **Amicable** : made or done in a friendly way, without argument. (सौहार्दपूर्ण, स्नेही)

## 6. Answer: c

### Explanation:

The correct answer is ' **Murky** '.

### ★ Key Points

- The most appropriate antonym of the given word ' **Clear** ' is ' **Murky** '.
- **Clear** : easy to see, hear or understand. (देखने, सुनने या समझने में स्पष्ट, साफ़)
  - *Example: His voice wasn't very **clear** on the telephone.*
- **Murky** : dark and dirty; not clear. (अंधेरा और गंदा; स्पष्ट नहीं)
  - *Example: The water in the river looked very **murky**.*

Correct Answer: Murky.

### ★ Additional Information

- Let's look at the **meaning** of other words:
  - **Black** : of the darkest colour, like night or coal. [काला (रंग) (रात या कोयले जैसा)]
  - **Clean** : not dirty. (साफ़, निर्मल, स्वच्छ)
  - **White** : of the very light colour of fresh snow or milk. [सफ़ेद या श्वेत रंग का (ताज़े हिम या दुग्ध के सामन), सफ़ेद, श्वेत, चिट्टा]

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7. **Answer: c**

**Explanation:**

The correct answer is 'have given; of their'.

### ★ Key Points

- The underlined part is incorrectly used.
- In the first underlined part '**have given**' should be used because we know that in a sentence a verb should be used according to its subject.
- Here, '**the lockdowns**' is **plural** . Hence, **a plural helping verb** should be used.
- We know that '**have**' is followed by the past participle. Hence, '**give**' should be changed into '**given**' .
- In the second underlined part '**of their**' should be used because '**their**' is used for plural nouns. In the given sentence it is referring to '**parents and grandparents**'.

Correct Sentence: *The lockdowns **have given** many parents and grandparents the opportunity to share some **of their** nostalgic memories with their children and*



grandchildren.

★ Hinglish

- रेखांकित भाग का गलत उपयोग किया गया है।
- पहले रेखांकित भाग में 'have given' का प्रयोग करना चाहिए क्योंकि हम जानते हैं कि एक वाक्य में एक क्रिया का प्रयोग उसके विषय के अनुसार करना चाहिए।
- यहां 'the lockdowns' plural है। इसलिए, एक बहुवचन helping verb का उपयोग किया जाना चाहिए।
- हम जानते हैं कि past participle द्वारा 'have' का अनुसरण किया जाता है। इसलिए, 'give' को 'given' में बदल देना चाहिए।
- दूसरे रेखांकित भाग में 'their' का प्रयोग किया जाना चाहिए क्योंकि बहुवचन संज्ञाओं के लिए 'their' प्रयोग होता है। दिया गया वाक्य 'parents and grandparents' की बात कर रहा है।

8. Answer: d

Explanation:

The erroneous part is 'There was'.

★ Key Points

- The given sentence is grammatically incorrect.
- Here, 'there were' should be used instead of 'there was'.
- In a sentence, a verb should be used according to its main subject.
- In the given sentence 'many people' is the main subject which is plural .
- Hence, a plural helping verb 'were' should be used.

Correct Sentence: *There were many people who voted for him.*

★ Hinglish

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहाँ 'there was' के स्थान पर 'there were' का प्रयोग होना चाहिए।
- एक वाक्य में, एक क्रिया का प्रयोग उसके मुख्य विषय के अनुसार किया जाना चाहिए।
- दिए गए वाक्य में 'many people' मुख्य विषय है जो बहुवचन है।
- इसलिए, एक बहुवचन सहायक क्रिया 'were' का प्रयोग किया जाना चाहिए।

9. Answer: b

Explanation:

The correct answer is ' **united** '.

★ Key Points

- The most appropriate word for the given blank is ' **united** '.
- It means '**joined together by a common feeling or aim**'. (समान भावना या उद्देश्य से संयुक्त)
  - *Example: The entire Brazilian people are **united** by their love of soccer.*
- When people are ' **united** ' about something, they agree about it and act together.
- The given sentence is trying to express that people of different religions and castes live together peacefully in India.

Correct Sentence: *In India, people of all religions and castes live together and they are **united** in spite of cultural differences.*

★ Additional Information

- Let's look at the **meaning** of other words:
  - **Learned** : having a lot of knowledge from studying; for people who have a lot of knowledge. (ज्ञानी, विद्वान, पंडित; विद्वानों से संबंधित, विद्वतापूर्ण, पांडित्यपूर्ण)
  - **Confused** : not able to think clearly. (स्पष्ट रूप से सोच-विचार करने में असमर्थ; चकराया या उलझा हुआ, भ्रमित)
  - **Shared** : to divide something between two or more people. (किसी वस्तु को दो या अधिक लोगों में बाँटना)

10. Answer: b

Explanation:

The correct answer is ' Will '.

★ Key Points

- The most appropriate word for the given blank is ' will '.
- '*Where there is a will there is a way*' is a proverb .
- It means 'if someone has the desire and determination to do something, he or she can find a method for accomplishing it'. (अगर किसी के पास कुछ करने की इच्छा और दृढ़ संकल्प है, तो वह इसे पूरा करने के लिए एक तरीका ढूंढ सकता है)
- **Will**(*noun*) - a deliberate or fixed desire or intention. (मर्जी; एक जानबूझकर या निश्चित इच्छा या इरादा)
  - For Example - Jane had not wanted them to stay against their **will** .
- Hence, ' will ' will be used.

Correct Sentence: Remember that where there is a **will** there is a way.

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11. Answer: d

Explanation:

The correct answer is 'Time seems to move quickly'.

★ Key Points

- The most appropriate meaning of the given idiom 'How time flies!' is 'Time seems to move quickly'.
- **How time flies!** is used to say that time passes quickly. (यह कहने के लिए प्रयोग किया जाता है कि समय जल्दी बीत जाता है)
  - Example: Your son is in high school already? My, **how time flies!**

Correct Answer: Time seems to move quickly.

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12. Answer: a

Explanation:

The correct answer is 'Raining verb heavily'.

★ Key Points

- The most appropriate meaning of the given idiom 'Raining cats and dogs' is 'Raining very heavily'.
- **Raining cats and dogs:** to rain very heavily. (बहुत तेज़ बारिश)
  - *Example: There's no way they'll be playing at the park, it's raining cats and dogs out there!*

Correct Sentence: Raining very heavily.

---

13. Answer: b

**Explanation:**

The correct answer is 'Emigrant'.

★ Key Points

- The most appropriate word for the given group of words is 'Emigrant'.
- It means 'a person who leaves their own country in order to settle permanently in another'. (उत्प्रवासी; एक व्यक्ति जो स्थायी रूप से दूसरे में बसने के लिए अपना देश छोड़ देता है)
  - *Example: The would-be emigrant faced many difficulties.*

Correct Answer: Emigrant.

★ Additional Information

- Let's look at the **meaning** of other words:
  - **Citizen** : a person who is legally accepted as a member of a particular country. (किसी देश का विधिसम्मत निवासी, नागरिक)
  - **Immigrant** : a person who has come into a foreign country to live there permanently. (दूसरे देश में आकर वहीं स्थायी रूप से बसने वाला व्यक्ति; आप्रवासी)
  - **Foreigner** : a person who belongs to a country that is not your own. (आपने देश से भिन्न देश का निवासी; विदेशी व्यक्ति)

14. Answer: b

Explanation:

The correct answer is ' Bird '.

★ Key Points

- The most appropriate synonym of the given word ' Fowl ' is ' Bird '.
- **Fowl** : a bird, especially a chicken, that is kept on a farm. (पालतू पक्षी, विशेषतः मुरगा या मुरगी)
  - Example: They barbecued several pieces of beef, **fowl**, and fish.
- **Bird** : a creature with feathers and wings which can (usually) fly. (उड़ने में समर्थ एवं पंखोंवाला प्राणी, पक्षी, चिड़िया)
  - Example: I could hear the **birds** singing outside.

Correct Answer:Bird.

★ Additional Information

- Let's look at the **meaning** of other words:
  - **Mistake** : something that you think or do that is wrong. (भूल, त्रुटि, गलती)
  - **Dirty** : not clean. (मैला, गंदा)
  - **Unfair** : not dealing with people as they deserve; not treating each person equally. (जो यथायोग्य व्यवहार वाला नहीं, अन्यायपूर्ण; जिसमें लोगों को बराबर नहीं माना जाता; भेदभावपूर्ण)

15. Answer: c

Explanation:

The correct answer is ' Iconic '.

★ Key Points

- The most appropriate synonym of the given word ' **Iconic** ' is ' **Exemplary** '.
- **Iconic** : very famous or popular, especially being considered to represent particular opinions or a particular time. (बहुत प्रसिद्ध या लोकप्रिय; प्रतिष्ठित)
  - Example: John Lennon gained **iconic** status following his death.
- **Exemplary** : very good; that can be an example to other people. (श्रेष्ठ, बहुत अच्छा; औरों के लिए आदर्श; उदाहरणात्मक)
  - Example: The support provided was **exemplary** in all areas.

Correct Answer: *Iconic.*

★ Additional Information

- Let's look at the **meaning** of other words:
  - **General** : affecting all or most people, places, things, etc. (सभी या अधिकतम लोगों, स्थानों, वस्तुओं आदि से संबंधित; सामान्य, सर्वसामान्य)
  - **Unimportant** : not important. (महत्वहीन, तुच्छ)
  - **Manageable** : not too big or too difficult to deal with. (इतना बड़ा या कठिन नहीं कि सँभाला न जा सके, नियंत्रण या संचालन योग्य)

16. Answer: b

**Explanation:**

The correct answer is '**to brought**'.

★ Key Points

- The given sentence is grammatically incorrect.
- We know that after '**to**' **infinitive** the base form of the verb is used.
  - Example: David is not able **to provide** an answer.
- In the given sentence '**bring**' should be used in place of '**brought**'.

Correct Sentence: *Sumit has decided **to bring** his car for the picnic.*

★ Hinglish

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।

- हम जानते हैं कि 'to' infinitive के बाद verb के base form का प्रयोग किया जाता है।
  - Example: David is not able to provide an answer.
- दिए गए वाक्य में 'brought' को 'bring' में बदलना चाहिए।

---

## 17. Answer: a

### Explanation:

The erroneous spelling is 'Fabulus'.

#### ★ Key Points

- Among the given options, the incorrectly spelt word is 'Fabulus'.
- Its correct spelling is 'Fabulous'.
- It means 'very good; excellent'. (बहुत अच्छा; उच्च कोटि का)
  - Example: I had a *fabulous* time.

#### ★ Additional Information

- Let's look at the **meaning** of other words:
  - **Farther** : (at) a distance. (दूर; आगे)
  - **Fasting** : abstinence from food or drink or both for health, ritualistic, religious, or ethical purposes. (स्वास्थ्य, कर्मकांड, धार्मिक या नैतिक उद्देश्यों के लिए भोजन या पेय या दोनों से परहेज)
  - **Further** : more; to a greater degree. (कुछ या कोई और, और कोई; इससे अधिक)

---

## 18. Answer: b

### Explanation:

The correct answer is 'don't'.

#### ★ Key Points

- The most appropriate answer for the given blank is 'don't'.

- We know that after the 'I' pronoun 'do' is used.
- In the later part of the sentence, the **future tense** has already been used.
- Hence, all the other options will be incorrect except **Option 2**.

**Correct Sentence:** *Going by the current pace of work, I **don't** think this will finish by Sunday.*

### ★ Hinglish

- दिए गए रिक्त स्थान के लिए सबसे उपयुक्त उत्तर ' **don't** ' है।
- हम जानते हैं कि 'I' सर्वनाम के बाद ' **do** ' का प्रयोग होता है।
- वाक्य के बाद के भाग में, **future tense** पहले ही उपयोग किया जा चुका है।
- इसलिए, **विकल्प 2** को छोड़कर अन्य सभी विकल्प गलत होंगे।

## 19. Answer: d

### Explanation:

The correct answer is ' **strict** '.

### ★ Key Points

- The most appropriate word for the given blank is ' **strict** '.
- It means '**not allowing people to break rules or behave badly**'. [सख्त, कठोर (नियम भंग या ग़लत व्यवहार को सहन न करने वाला)]
  - *Example: Samir is very **strict** with his children.*
- The later part of the sentence states that the teacher doesn't like it if someone plays pranks in the class.
- Hence, ' **strict** ' is the most suitable word for the given blank.

**Correct Sentence:** *The teacher was very **strict** . She never let anyone play pranks in her class.*

### ★ Additional Information

- Let's look at the **meaning** of other words:



- **Happy** : feeling or showing pleasure; pleased. (आनंद का अनुभव करने या उसे व्यक्त करने वाला; प्रसन्न, प्रफुल्ल)
- **Lenient** : (used about punishment or person who punishes) not as strict as expected. [(दंड या दंड देने वाला व्यक्ति) जो आशा के अनुरूप कठोर न हो; नरम, सौम्य]
- **Jovial** : (used about a person) happy and friendly. [(व्यक्ति) प्रसन्न और मित्रवत]

20. Answer: a

**Explanation:**

The correct answer is 'No substitution required'.

★ Key Points

- The given sentence is grammatically correct.
- In the given context the phrasal verb '**opening up**' fits the best.
- It means '**to make it easier to travel or do business in a country; become present, available, or accessible**'. (किसी देश में यात्रा करना या व्यापार करना आसान बनाने के लिए; उपस्थित, उपलब्ध, या सुलभ बनें)
  - *Example: China is **opening up** to foreign investment.*

Correct Sentence: People are slowly returning to their normal routine after **opening up** of the lockdown.

21. Answer: b

**Explanation:**

The correct answer is '**called**'.

★ Key Points

- The most appropriate word for the given blank is '**called**'.
- It means '**to have a particular name**'. (कोई विशेष नाम होना)
  - *Example: His wife is **called** Sandhya.*

- In the given context, 'computer programmer is also called software developer'.
- Hence, 'called' fits the best.

**Correct Paragraph:** A computer programmer, sometimes called software developer, a programmer or more recently a coder, (2)\_\_\_\_\_ a person who creates computer software. The term 'computer programmer' can (3)\_\_\_\_\_ to a specialist in the area of computers, or to a generalist (4)\_\_\_\_\_ writes codes for many kinds of software. Some programmers who (5)\_\_\_\_\_ web programming languages add a prefix, a suffix, or both to every page's title.

### ★ Additional Information

- Let's look at the **meaning** of other words:
  - **Accepted** : to agree to take something that somebody offers you. [(दी गई वस्तु को) स्वीकार या ग्रहण करना]
  - **Said** : to speak or tell somebody something, using words. [(शब्दों की सहायता से) (किसी को कुछ) कहना; बोलना]
  - **Known** : to have knowledge or information in your mind. [किसी बात या व्यक्ति की जानकारी होना]

## 22. Answer: a

### Explanation:

The correct answer is 'is'.

### ★ Key Points

- The most appropriate helping verb for the given blank is 'is'.
- Here, a singular helping verb and **a base form of the verb** should be used.
- 'Is' is referring to a 'computer programmer'.

**Correct Paragraph:** A computer programmer, sometimes called software developer, a programmer or more recently a coder, is a person who creates computer software. The term 'computer programmer' can (3)\_\_\_\_\_ to a specialist in the area of computers, or to a generalist (4)\_\_\_\_\_ writes codes for many kinds of software.

Some programmers who (5)\_\_\_\_\_ web programming languages add a prefix, a suffix, or both to every page's title.

23. Answer: c

Explanation:

The correct answer is 'refer'.

★ Key Points

- The most appropriate word for the given blank is 'refer'.
- It means 'to describe or be connected with somebody/something'. (व्यक्ति या वस्तु का वर्णन करना या उससे संबंध बताना)
  - Example: The term 'adolescent' **refers** to young people between the ages of 12 and 17.
- We use 'refer' to a particular subject or person, talk about them or mention them.

Correct Paragraph: A computer programmer, sometimes called software developer, a programmer or more recently a coder, is a person who creates computer software. The term 'computer programmer' can refer to a specialist in the area of computers, or to a generalist (4)\_\_\_\_\_ writes codes for many kinds of software. Some programmers who (5)\_\_\_\_\_ web programming languages add a prefix, a suffix, or both to every page's title.

★ Additional Information

- Let's look at the **meaning** of other words:
  - **mean** : to express, show or have as a meaning. (अर्थ को व्यक्त करना, दिखाना या उससे युक्त होना)
  - **specify** : to say or name something clearly or in detail. (स्पष्टता या विस्तार से कुछ कहना या किसी का उल्लेख करना)
  - **know** : to have knowledge or information in your mind. (किसी बात या व्यक्ति की जानकारी होना)

24. Answer: d

Explanation:

The correct answer is 'who'.

★ Key Points

- The most appropriate word for the given blank is 'who'.
- It is used to introduce a clause giving further information about a person or people previously mentioned. (इसका उपयोग किसी व्यक्ति या पहले बताए गए लोगों के बारे में अधिक जानकारी देने वाले खंड को पेश करने के लिए किया जाता है)
  - Example: The woman **who** I work for is very nice.
- In the given sentence 'who' is referring to 'computer programmer'.

Correct Paragraph: A computer programmer, sometimes called software developer, a programmer or more recently a coder, is a person who creates computer software. The term 'computer programmer' can refer to a specialist in the area of computers, or to a generalist who writes codes for many kinds of software. Some programmers who (5) \_\_\_\_\_ web programming languages add a prefix, a suffix, or both to every page's title.

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25. Answer: b

Explanation:

The correct answer is 'work with'.

★ Key Points

- The most appropriate option for the given blank is 'work with'.
- It means 'To cooperate with someone in order to perform some task, activity, responsibility, etc.' (किसी कार्य, गतिविधि, जिम्मेदारी आदि को करने के लिए किसी के साथ सहयोग करना)

- o Example: You'll be **working with** Karen on this project.

Correct Paragraph: A computer programmer, sometimes called software developer, a programmer or more recently a coder, is a person who creates computer software. The term 'computer programmer' can refer to a specialist in the area of computers, or to a generalist who writes codes for many kinds of software. Some programmers who work with web programming languages add a prefix, a suffix, or both to every page's title.

26. Answer: d

Explanation:

People: P, Q, R, S, T, U and V.

- i. T is just behind P.
- ii. V is just in front of Q, who is not the last person.
- iv. There is one person between T and Q.

Case - I



Case - II



- iii. S is between P and R.



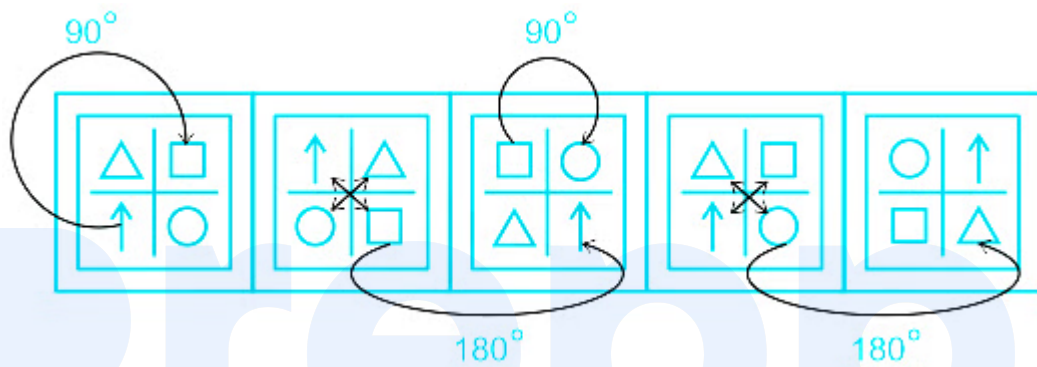
Hence, **U** is the last person.

27. Answer: c

**Explanation:**

The complete series is as follows:

- Symbols move in a clockwise direction of  $90^\circ$ , then in the next step move in  $180^\circ$  clockwise direction.



Hence, option (3) is the correct answer.

28. Answer: d

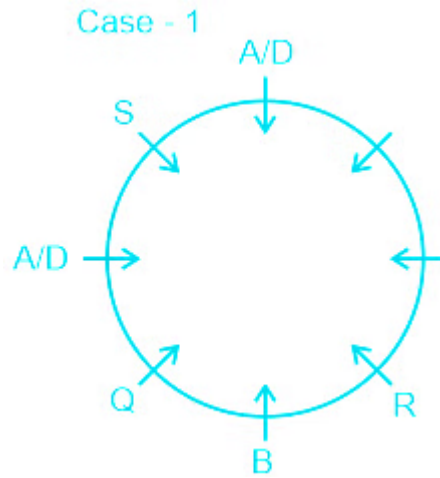
**Explanation:**

Four girls: A, B, C, and D

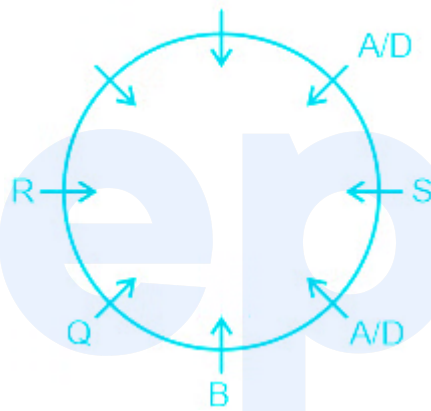
Four boys: P, Q, R, and S

ii. Q is sitting to the immediate left of B.

iii. S is sitting between A and D and is facing R. There are two such cases,

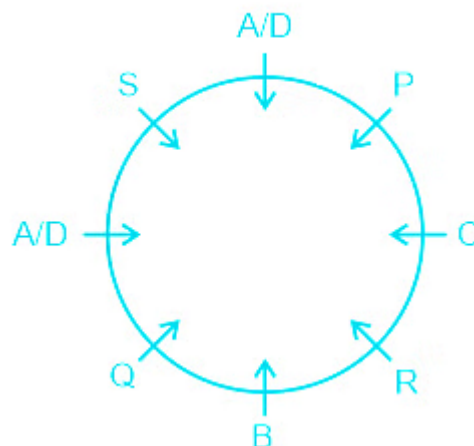


Case - 2



i. No two girls or boys are sitting next to each other. Therefore, case II eliminates here and the final seating arrangement is as follows,

Case - 1



Hence, **C** is sitting between P and R.



29. Answer: d

**Explanation:**

The logic followed here is:

As 'Cataract' is related to 'Ophthalmology',

- *Ophthalmology is the study of surgery for treating 'eyes' disorder and A cataract is a eye disorder.*

Similarly,

'Neurosis' is related to 'Psychology'.

- *Neurosis is a mental illness and study of correcting mental illness is called Psychology.*

Hence, the correct answer is "Psychology".

★ Important Points

- **Neurology** is the branch of medicine concerned with the study and treatment of disorders of the **nervous system**.
- **Psychology** is scientific study of mind and behavior.

☒ **Psychotherapy** → A form of *treatment for many mental disorders is Psychotherapy. Psychotherapy is an interpersonal intervention, usually provided by a mental health professional such as a clinical psychologist, that employs any of a range of specific psychological techniques.*

- **Sociology** is the study of **social life, social change, and the social causes and consequences of human behavior.**
- **Biology** is defined as the **science of life and living organisms.**

30. Answer: c



**Explanation:**

The image obtained when the paper is unfolded is,



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

★ Confusion Points

Option (1) and (3) has minor difference, the position of star is different in both the figures.

31. **Answer: b**

**Explanation:**

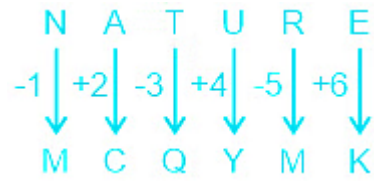
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Given: NATURE is coded as MCQYMK,

The logic followed here is

Similarly,





Hence, **BTBWO** is the correct answer.

32. Answer: c

Explanation:

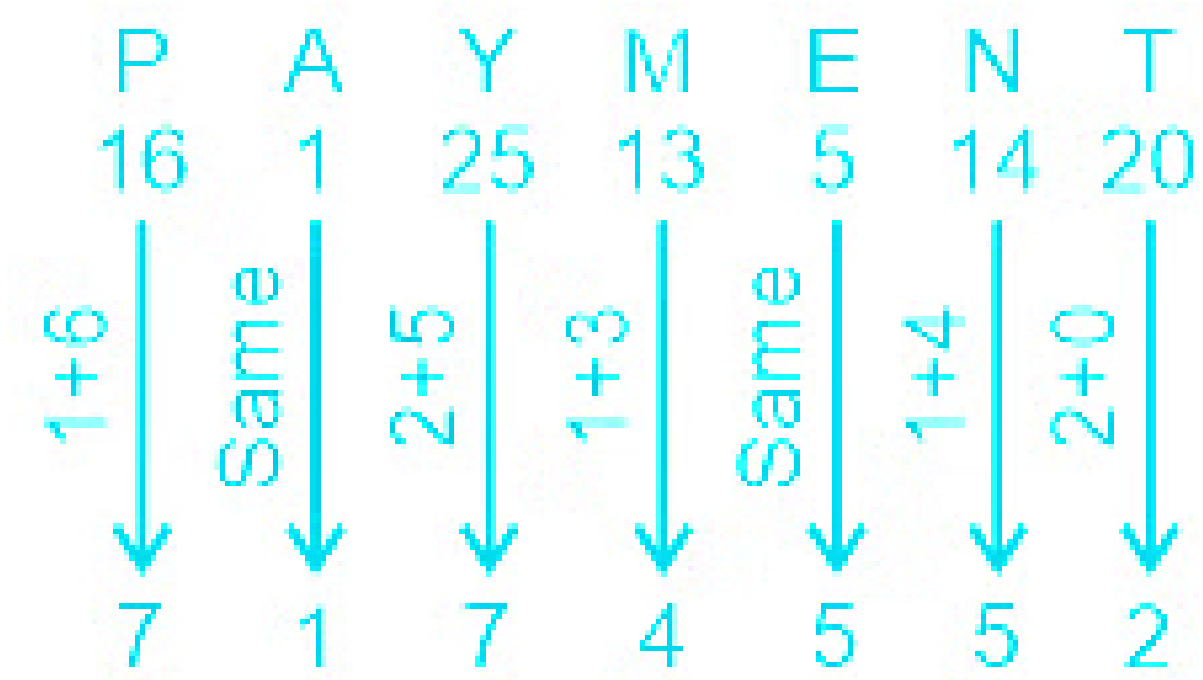
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Given: PAYMENT is coded as 7174552,

The logic followed here is:

The sum of the digits of the positional values of the given letters, as shown below,

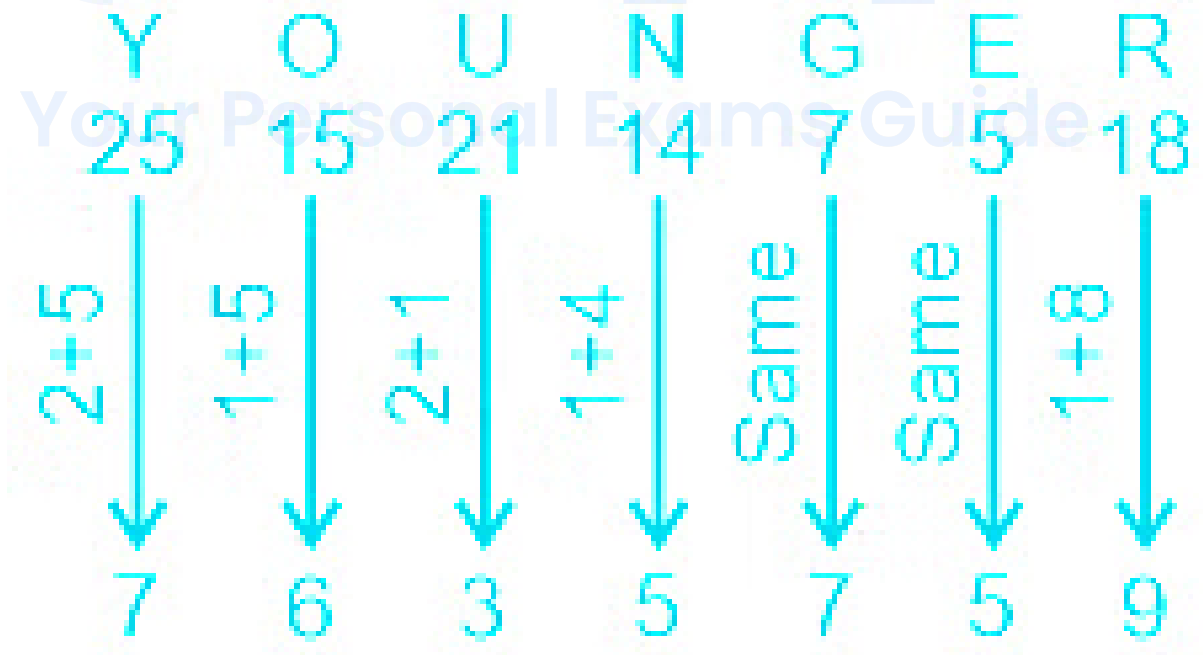
- Double digit → Addition
- Unit digit → Same



Similarly,

YOUNGER = ?

- Double digit → Addition
- Unit digit → Same
- 



Hence, 7635759 is the correct answer.

33. Answer: a

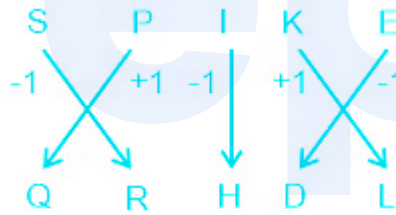
Explanation:

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

Given: SPIKE : QRHDL :: JINGO : ?

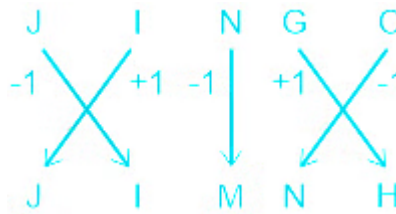
The logic followed here is:

SPIKE : QRHDL



Similarly,

JINGO : ?



Hence, JIMNH is the correct answer.

34. Answer: b

**Explanation:**

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

Given:  $8 + 6 \times 4 \div 2 - 10 = 6$

By checking options and substituting accordingly,

(1) + and ×

$$\text{LHS} = 8 \times 6 + 4 \div 2 - 10$$

$$= 8 \times 6 + 2 - 10$$

$$= 48 + 2 - 10$$

$$= 50 - 10$$

$$= 40$$

$$\neq 6$$

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

(2) - and +

$$\text{LHS} = 8 - 6 \times 4 \div 2 + 10$$

$$= 8 - 6 \times 2 + 10$$

$$= 8 - 12 + 10$$

$$= 18 - 12$$

$$= 6$$

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

(3)  $\times$  and  $\div$

$$\text{LHS} = 8 + 6 \div 4 \times 2 - 10$$

$$= 8 + 1.5 \times 2 - 10$$

$$= 8 + 3 - 10$$

$$= 11 - 10$$

$$= 1$$

$$\neq 6$$

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

(4)  $\times$  and  $-$

$$\text{LHS} = 8 + 6 - 4 \div 2 \times 10$$

$$= 8 + 6 - 2 \times 10$$

$$= 8 + 6 - 20$$

$$= 14 - 20$$

$$= -6$$

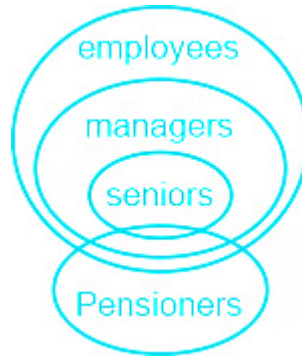
$$\neq 6$$

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

Hence,  $-$  and  $+$  is the correct answer.

35. Answer: b

**Explanation:**



The least possible diagram is as follows

Conclusions:

- I. Some pensioners are employees → True (as, some seniors are pensioners and all seniors are employees, so part of seniors that are employees are pensioners too)
- II. Some managers are pensioners → True (as, some seniors are pensioners and all seniors are managers, so part of seniors that are managers are pensioners too )
- III. All employees are seniors → False (it is possible but not definite as shown in the figure above)

Hence, **only conclusions I and II follow.**

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**36. Answer: c**

**Explanation:**

Number of Books: 7

- ii. The BLUE book is between the GREEN and the YELLOW books.
- iii. The VIOLET book is between the GREEN and the BLACK books. Thus following two cases,

Shelf	Case I	Case II
7	Yellow	Black
6	Blue	Violet
5	Green	Green
4	Violet	Blue
3	Black	Yellow
2		
1		

iv. There are as many books between the GREEN and the RED books as there are between the BLACK and the BLUE books (here two).

i. The RED book is just on the top of the ORANGE book. Therefore,



Shelf	Case I	Case II
7	Yellow	Black
6	Blue	Violet
5	Green	Green
4	Violet	Blue
3	Black	Yellow
2	Red	Red
1	Orange	Orange

Now, if the YELLOW book is on the top, then case I follow.

Here case II eliminated

Shelf	Case I
7	Yellow
6	Blue
5	Green
<b>4</b>	<b>Violet</b>
3	Black
2	Red
1	Orange

Hence, **violet** book is in the middle.

37. Answer: a

**Explanation:**

Given: 3, 7, 22, 45, 136, ?, 820

The logic followed here is:



Hence, **273** is the correct answer.

**38. Answer: b**

**Explanation:**

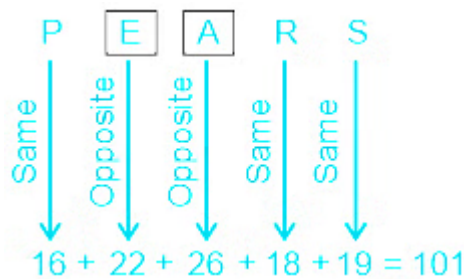
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Given: PEARS is coded as 101 and CAT is coded as 49.

The logic followed here is:

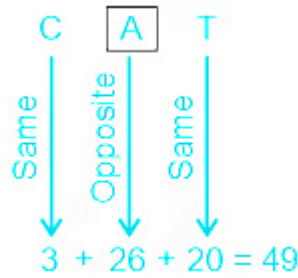
Addition of **positional values of consonants** and **reverse positional values of vowels**, as shown below,

PEARS = 101



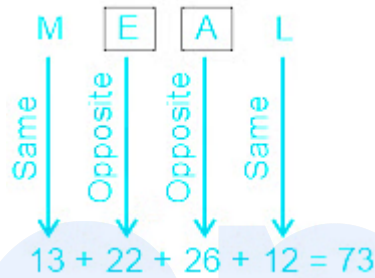
And,

CAT = 49



Similarly,

MEAL = ?



Hence, **73** is the correct answer.

39. Answer: d

**Explanation:**

The logic followed here is:

$$(1st\ number + 1)^2 \div 2 = second\ number$$

$$11 : 72 \rightarrow (11 + 1)^2 \div 2 = 12^2 \div 2 = 144 \div 2 = 72$$

By checking options:

$$(1) 9 : 48 \rightarrow (9 + 1)^2 \div 2 = 10^2 \div 2 = 100 \div 2 = 50 \neq 48$$

$$(2) 3 : 7 \rightarrow (3 + 1)^2 \div 2 = 4^2 \div 2 = 16 \div 2 = 8 \neq 7$$

$$(3) 15 : 95 \rightarrow (15 + 1)^2 \div 2 = 16^2 \div 2 = 256 \div 2 = 128 \neq 95$$

$$(4) 7 : 32 \rightarrow (7 + 1)^2 \div 2 = 8^2 \div 2 = 64 \div 2 = 32$$

Hence, 7 : 32 is the correct answer.

---

40. Answer: d

**Explanation:**

The logic followed here is:

- Water is Filtered to remove impurities.

Similarly,

- Film is **Censored** to remove certain scenes.

Hence, **Censor** is the correct answer.

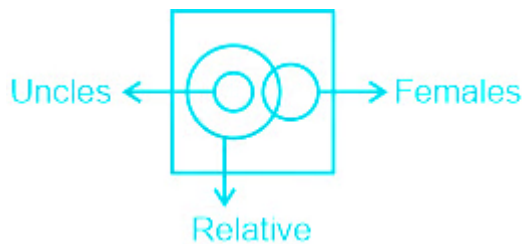
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41. Answer: a

**Explanation:**

The logic followed here is:

Some females are relatives and all uncles are relatives.



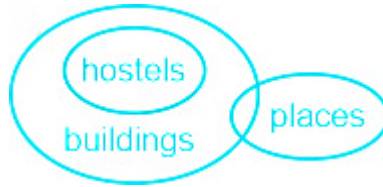
Hence, **option (1)** is the correct answer.

---

42. Answer: d

**Explanation:**

The least possible Venn diagram is:



Conclusions:

I. Some palaces are hostels → False (it is possible but not definite as shown in the diagram above)

II. No palace is a hostel → False (it is possible but not definite as shown in the diagram above)

But, both these conclusions form complementary pairs.

★ Important Points

There are two complementary pairs:

(1) All - Some not

(2) No - Some

Hence, **either conclusion I or II follows.**

---

**43. Answer: d**

**Explanation:**

The given image is embedded as shown below,



Hence, option (4) is the correct answer.

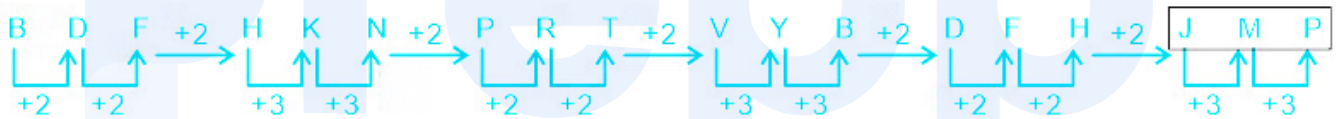
44. Answer: b

Explanation:

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

Given: BDF, HKN, PRT, VYB, DFH, ?

The logic followed here is:



Hence, **JMP** is the correct answer.

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45. Answer: d

Explanation:

Given: {12, 18, 6}

The logic followed here is:

- Sum of all the three numbers is equal to 36, as shown below,

$$\{12, 18, 6\} \rightarrow 12 + 18 + 6 = 36$$

By checking options:

(1)  $\{18, 9, 8\} \rightarrow 18 + 9 + 8 = 35 \neq 36$

(2)  $\{9, 14, 11\} \rightarrow 9 + 14 + 11 = 34 \neq 36$

(3)  $\{15, 13, 11\} \rightarrow 15 + 13 + 11 = 39 \neq 36$

(4)  $\{16, 12, 8\} \rightarrow 16 + 12 + 8 = 36$

Hence,  $\{16, 12, 8\}$  is the correct answer.

46. Answer: c

Explanation:

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

By checking options and interchanging signs - and +,

(1)  $10 \div 5 - 10 + 5 = 8$

LHS =  $10 \div 5 + 10 - 5$

=  $2 + 10 - 5$

=  $12 - 5$

=  $7$

$\neq 8$



LHS  $\neq$  RHS

$$(2) 9 - 6 \times 2 + 8 = 11$$

$$\text{LHS} = 9 + 6 \times 2 - 8$$

$$= 9 + 12 - 8$$

$$= 21 - 8$$

$$= 13$$

$$\neq 11$$

LHS  $\neq$  RHS

$$(3) 12 + 3 \times 2 - 4 = 10$$

$$\text{LHS} = 12 - 3 \times 2 + 4$$

$$= 12 - 6 + 4$$

$$= 16 - 6$$

$$= 10$$

$$= \text{RHS}$$

LHS = RHS

$$(4) 7 \times 3 + 9 - 6 = 17$$

$$\text{LHS} = 7 \times 3 - 9 + 6$$

$$= 21 - 9 + 6$$

$$= 27 - 9$$

$$= 18$$

$$\neq 17$$

LHS  $\neq$  RHS

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Hence,  $12 + 3 \times 2 - 4 = 10$  is the correct answer.

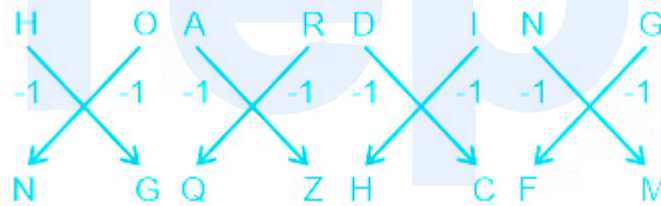
47. Answer: a

Explanation:

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

Given: HOARDING is coded as NGQZHC FM.

The logic followed here is:



Similarly,



Hence, QSZDHS DR is the correct answer.

48. Answer: c

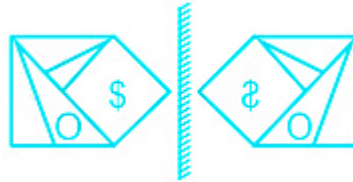
Explanation:

★ Mistake Points

Option 1 and option 3 are different from each other.

In option 1 the dollar sign is in the lower half while in option 3, the dollar sign is exactly in the central.

The mirror image is as follows,

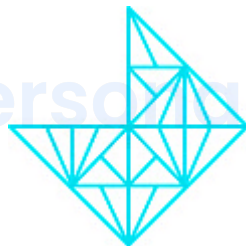


Hence, **option (3)** is the correct answer.

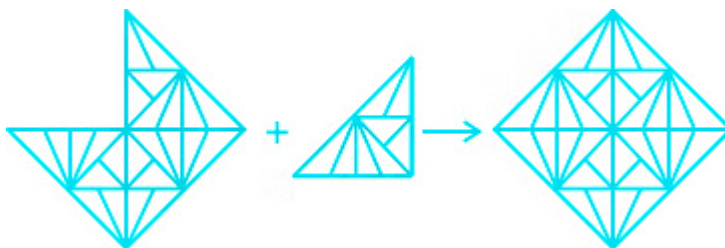
49. Answer: d

Explanation:

Given:



The logic followed here is: Completing the incomplete pattern:



Hence, the correct answer is "Option 4".

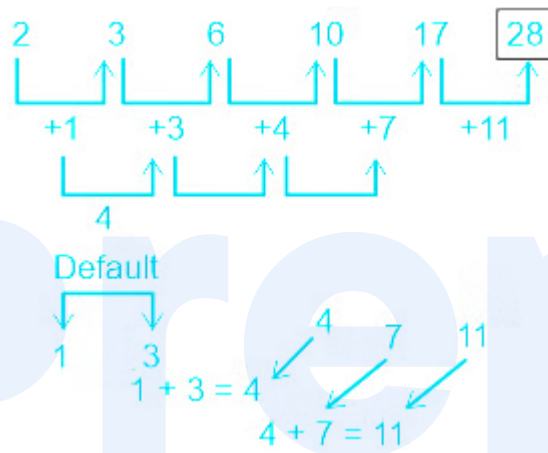
50. Answer: a

Explanation:

Given: 2, 3, 6, 10, 17, ?

The logic followed here is:

The addition of the previous two differences, as shown below,



$2 + 1 = 3;$

$3 + 3 = 6;$

$6 + (1 + 3) = 6 + 4 = 10;$

$10 + (3 + 4) = 10 + 7 = 17;$

$17 + (4 + 7) = 17 + 11 = 28.$

Hence, **28** is the correct answer.

51. Answer: c

Explanation:

**Given:-**

The total number of students in Class A and B is- 72

**Formula used**

Average = Total sum/ Total Number

**Calculation:**

The ratio of the number of students in classes A and B is 7 : 5 (Since the number of students in A is 40% more than that in B so we can read this as 140/100 assuming that in class B there are 100 students)

The average marks of students in B are 50% more than that of students in A- Hence, the ratio is 3 : 2. (So we can say that the average marks of students in B are- 3a and the average marks of students in A are 2a)

So the number of students in class A is- 42 and the number of students in Class B is 30

According to the question- The average marks of all the students in classes A and B is 58

$$\Rightarrow 72 \times 58 = 2a \times 42 + 3a \times 30$$

$$\Rightarrow 72 \times 58 = a(84 + 90)$$

$$\Rightarrow 72 \times 58 = 174a$$

$$\Rightarrow 72 = 3a$$

$$\Rightarrow a = 24$$

$\therefore$  The average marks of students in A is  $24 \times 2$  i.e. 48

★ Alternate Method

Let the number of students in class B is x

then the number of students in class A will be = 1.4x

Let the average marks of students in class A is  $y$

then the average marks of students in class B will be =  $1.5y$

Now given,

average of both the class is 58.

Thus,

$$\frac{1.4x \times y + x \times 1.5y}{x + 1.4x} = 58$$

$$\frac{1.4y + 1.5y}{1 + 1.4} = 58 \Rightarrow Y = 48$$

---

## 52. Answer: b

### Explanation:

Given

Rate of interest = 8% and 12.5%

Formula used

Simple interest =  $(\text{Principal} \times \text{rate} \times \text{time})/100$

Calculation

$$639 = [(p \times 12.5 \times 1)/100] - [(p \times 8 \times 1)/100]$$

$$\Rightarrow 639 = (12.5p/100) - (8p/100)$$

$$\Rightarrow 639 = 4.5p/100$$

$$\Rightarrow p = (639 \times 100)/4.5$$

$$\Rightarrow P = 14,200$$

$\therefore$  The principal amount (in Rs) is 14,200

53. Answer: b

**Explanation:**

Given

3, 4, 7, x, x + 1, 12, 13, 15

Formula used

$$\text{Median} = \left\{ \left( \frac{n}{2} \right)^{\text{th term}} + \left[ \left( \frac{n}{2} \right) + 1 \right]^{\text{th term}} \right\} / 2$$

Calculation

$$9.5 = \left\{ \left( \frac{8}{2} \right)^{\text{th term}} + \left[ \left( \frac{8}{2} \right) + 1 \right]^{\text{th term}} \right\} / 2$$

$$9.5 = (4^{\text{th term}} + 5^{\text{th term}}) / 2$$

$$\Rightarrow 9.5 = (x + x + 1) / 2$$

$$\Rightarrow 9.5 = (2x + 1) / 2$$

$$\Rightarrow 19 - 1 = 2x$$

$$\Rightarrow 18 = 2x$$

$$\Rightarrow x = 9$$

$\therefore$  x is equal to 9

---

54. Answer: d

**Explanation:**

Given:-

The ratio of the speeds of two trains:- 5 : 8.

The distance traveled by the second train is= 600 km.

The time is taken by the second train is= 4 hours.

**Calculation:-**

Hence, the speed of the second train is= 150 km/hrs

According to the question, the ratio of the speeds of the trains is= 5 : 8

Hence, we can say that the speed of the second train is equivalent to 8a i.e. ( 8a = 150)

Hence, a= 75/4

So the speed of the first train is=  $75 \div 4 \times 5$  i.e.  $375/4 \Rightarrow 93.75$  km/hrs

55. Answer: c

**Explanation:**

Given:

$$\frac{\frac{3}{7} + 1\frac{2}{3} \times 6 - (3\frac{1}{2} \div \frac{3}{5} \text{ of } \frac{7}{9}) \text{ of } \frac{2}{3}}{\frac{1}{7} (4 \div \frac{1}{5} \text{ of } 10) - 3}$$

Concept used:

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



Calculation:-

Let's first solve the numerator of the equation:-

$$\Rightarrow \frac{3}{7} + \frac{5}{3} \times 6 - \left(\frac{7}{2} \div \frac{3}{5} \text{ of } \frac{7}{9}\right) \text{ of } \frac{2}{3}$$

$$\Rightarrow \frac{3}{7} + 10 - \left(\frac{7}{2} \div \frac{7}{15}\right) \text{ of } \frac{2}{3}$$

$$\Rightarrow \frac{3}{7} + 10 - \left(\frac{15}{2}\right) \text{ of } \frac{2}{3}$$

$$\Rightarrow \frac{3}{7} + 10 - 5$$

$$\Rightarrow \frac{3}{7} + 5 = \frac{38}{7}$$

Let's solve the denominator of the equation:-

$$\frac{1}{7} (4 \div \frac{1}{5} \text{ of } 10) - 3$$

$$\Rightarrow \frac{1}{7} (4 \div 2) - 3$$

$$\Rightarrow \frac{1}{7} (2) - 3 = \frac{2}{7} - 3 = \frac{-19}{7}$$

Let's divide the numerator and the denominator we get:-

$$\Rightarrow \frac{38}{7} \div \frac{-19}{7}$$

$$\Rightarrow \frac{38}{7} \times \frac{7}{-19} = -2$$

Hence, the correct answer is **Option 3 i.e. -2**

## 56. Answer: c

### Explanation:

Given:-

The ratio of money distributed among P, Q, R, and S is 3 : 4 : 5 : 6

Calculation:-

Hence, we can say that the total money is  $18x$  (i.e.  $3x + 4x + 5x + 6x$ )

According to the question, R gets Rs 500 more than P this implies that-

$$\Rightarrow 5x = 500 + 3x$$

$$\Rightarrow 2x = 500$$

$$\Rightarrow x = 250$$

Hence, the value of  $18x$  is  $18 \times 250$  i.e. 4500

**$\therefore$  The sum of all their shares will be 4,500**

---

### 57. Answer: d

#### Explanation:

Given:-

The sum of the cost prices of two bikes = Rs. 50,000

Calculation:-

The question can be attempted by the ratio method. The key line here is that the selling price of the two bikes is the same.

The first bike is sold at a profit of 20% this implies that CP is 100 and SP is 120 (i.e. we have assumed that the cost price of the bike is 100 so 20% profit makes the selling price 120.)

Hence, the ratio of  $CP_1 : SP_1$  is 5 : 6

The second bike is sold at a loss of 20% this implies that CP is 100 and SP is 80 (i.e. we have assumed that the cost price of the bike is 100 so 20% loss makes the selling price 80.)

Hence, the ratio of  $CP_2 : SP_2$  is 5 : 4

According to the question we need to make the selling price the same then the former will be multiplied by 2 and the latter part will be multiplied by 3 to make it 12 on both sides.

$$\Rightarrow (5 : 6) \times 2 \text{ and } (5 : 4) \times 3$$

$$\Rightarrow \text{CP}_1 : \text{SP}_1 \text{ is } 10 : 12$$

$$\Rightarrow \text{CP}_2 : \text{SP}_2 \text{ is } 15 : 12$$

We can see that the selling price for both the bikes are the same now i.e. (12x)

According to the question, the sum of cost prices of both the bikes are- 50000

$$\Rightarrow 15x + 10x = 50000$$

$$\Rightarrow 25x = 50000$$

$$\Rightarrow x = 2000$$

Hence, the Cost price of the second bike is=  $2000 \times 15 = 30,000$ .

---

**58. Answer: b**

**Explanation:**

**Given:-**

The length of a rectangle is increased by 40%.

**Calculation:-**

In the given question, the area of the rectangle is the same after decreasing and increasing of Breadth and length.

We can use the ratio method:-

The length of a rectangle is increased hence, the ratio will be-

Length = 7 : 5 (as the length is increased then it becomes 140 assuming that the length is 100 hence the ratio will be 7 : 5)

Breadth =  $(100 - x) : 100$  (let the decrease % is  $x$ )

Since the area in both the cases is the same so the ratio of areas will be  $(1 : 1)$

Multiplying the ratios we get:-

$\Rightarrow$  New area =  $7(100 - x)$  and the old area =  $5 \cdot 100$  since the ratio is the same then-

$$\Rightarrow 700 - 7x = 500$$

$$\Rightarrow 200 = 7x$$

$$\Rightarrow 28.57\%$$

$\therefore$  The percentage decrease in the width will be 28.6% it is the nearest value or correct to one decimal.

---

59. Answer: c

**Explanation:**

**Given:-**

There are three positive numbers also, the resulting sums are given i.e. 154, 148, and 132.

**Calculation:-**

According to the question, there are three positive numbers let the numbers are-  $a$ ,  $b$  and  $c$ .

The average of two of them has been added to the third number this sentence implies that-

$$\Rightarrow (a + b)/2 + c = 154$$

$$\Rightarrow \text{Similarly, } (b + c)/2 + a = 148$$

$$\Rightarrow \text{Similarly, } (a + c)/2 + b = 132$$

This further implies that-

$$\Rightarrow a + b + 2c = 308 \text{ (we have taken the LCM and multiply } 2 \times 154)$$

$$\Rightarrow b + c + 2a = 296 \text{ (we have taken the LCM and multiply } 2 \times 148)$$

$$\Rightarrow a + c + 2b = 264 \text{ (we have taken the LCM and multiply } 2 \times 132)$$

By adding the above three equations we get-

$$4(a + b + c) = 868$$

$$\Rightarrow (a + b + c) = 868/4 = 217$$

The sum of the original three numbers is 217

60. Answer: a

Explanation:

★ Shortcut Trick

Given

Time = 10 years

Amount = 2 principal

Calculation

A certain sum at C.I. becomes n times in t years then,

n times  $\rightarrow$  t years

n<sup>m</sup>times  $\rightarrow$  (m  $\times$  t) years

A sum of money placed at C.I. doubles itself in 10 years then,

2 times  $\rightarrow$  10 years

8 times = 2<sup>3</sup>times = (3  $\times$  10) years = 30 years

∴ In 30 years , principal will become 8 times.

★ Alternate Method

**Given**

Time = 10 years

Amount = 2 principal

**Formula used**

$$\text{Amount} = P(1 + r\%)^t$$

where P, r and t represents principal, rate and time respectively

**Calculation**

let Principal is Rs.x

Amount = 2x

Rate = r

Time = 10 years

$$2x = x(1 + r\%)^{10}$$

$$\Rightarrow 2 = (1 + r\%)^{10} \quad \text{---- (1)}$$

$$8x = x(1 + r\%)^t$$

$$\Rightarrow 8 = (1 + r\%)^t$$

$$(2)^3 = (1 + r\%)^t$$

$$\Rightarrow [(1 + r\%)^{10}]^3 = (1 + r\%)^t \text{ (from 1)}$$

$$\Rightarrow (1 + r\%)^{30} = (1 + r\%)^t$$

$$\Rightarrow 30 = t$$

∴ In 30 years , principal will become 8 times.

**61. Answer: b**

**Explanation:**

To find:-  $(x + 4)$  and  $(\frac{x}{2} - 1)$

**Calculation:-**

The given question can be solved with the short trick.

Whenever we need to subtract  $x$  from the given four numbers group them in two i.e. first two and the last two numbers.

So the numbers will be- 21, 22 and 60, 64.

Step 1- Take the difference between the first two numbers and the last two numbers i.e.  $(22 - 21 = 1)$  &  $(64 - 60 = 4)$

Step 2- Subtract  $x$  from the first number and the third number or the second number and the fourth number.

Step 3- Multiply the former one with 4 and the latter one with 1 and obtain the value of  $x$ .

Let's see the mathematical operation-

$$\Rightarrow (21-x) \times 4 = (60-x) \times 1$$

$$\Rightarrow 84 - 4x = 60 - x$$

$$\Rightarrow 24 = 3x$$

$$\Rightarrow x = 8$$

Now according to the question, we need to find the mean proportional of-  $(x + 4)$  and  $(\frac{x}{2} - 1)$ .

$$\Rightarrow \sqrt{(x+4)\left(\frac{x}{2}-1\right)}$$

$$\Rightarrow \sqrt{12 \times 3} = \sqrt{36} \text{ (By putting the value of } x=8 \text{)}$$

$$\Rightarrow 6$$

Hence, the value of:-  $(x+4)$  and  $\left(\frac{x}{2}-1\right) = 6$

**62. Answer: b**

**Explanation:**

**Given-** The marked price of an article is= 5450

Discount= 15% and Profit= 15%

**Calculation-**

$$\Rightarrow \text{The selling price of an article will be} - \frac{5450 \times 85}{100} = \frac{545 \times 17}{2}$$

$\Rightarrow$  Let the CP will be 100x and the selling obtain on the profit will be 115x as 15% profit is given.

$$\Rightarrow 115x = \frac{545 \times 17}{2}$$

$$\Rightarrow x = \frac{545 \times 17}{230}$$

$$\text{Hence, the value of } 100x \text{ i.e. CP will be} = \frac{545 \times 10 \times 17}{23} = \frac{92650}{23} = 4028.26$$

Hence, the cost price of the article is= **4028**

**63. Answer: c**

**Explanation:**

**Given:-**

The ratio between boys and girls is 35 : 39 and the average between boys and girls



is- 740

**Calculation:-**

According to the question, let the number of boys be  $35x$  and the number of girls be  $39x$ .

So the average of boys and girls will be=  $(35x + 39x)/2 = 74x/2$

$$\Rightarrow 74x/2 = 740$$

$$\Rightarrow x = 20$$

$$\Rightarrow \text{The number of boys is- } 20 \times 35 = 700$$

**Hence, the number of boys in the school is 700**

---

**64. Answer: b**

**Explanation:**

**Given:-**

The radius of a circle is increased by 23%.

**Calculation:-**

In the given question we can use the formula i.e.  $a + b + \left(\frac{a \times b}{100}\right)$

According to the question, The value of a and b is- 23

**So we can say that-**  $23 + 23 + \frac{23 \times 23}{100} = 46 + 5.29 = 51.29$

Hence, the percentage increase in its area will be= **51.29%**

---

**65. Answer: d**

**Explanation:**

**Given:-**

The HCF of two numbers is = 6 and the LCM of the same two numbers is = 54

**Concept:-**

We know that the HCF of the given number is the greatest number. Also, HC of the given no's is always a factor of them.

If the HCF of two no's = H

Then the numbers are - Hx and Hy (Where x and y are coprime)

and LCM of the numbers will be  $x \times y \times H$ .

The sum of the numbers will be  $H(x + y)$

The difference between the numbers will be  $H(x - y)$

**Calculation:-**

Now using these conditions we are going to solve the given question.

$\Rightarrow$  LCM = 54 hence, we can say that  $54 = x \times y \times 6$

$\Rightarrow x \times y = 9$

By hit and trial, we can say that the value of  $x = 3$  and  $y = 3$  as no other number can make 9 also we need to take the integer values.

$\Rightarrow$  So the first number will be  $6x = 18$

$\Rightarrow$  the second number will be  $6y = 18$

$\Rightarrow$  We need to find the square root of the given numbers then -  $\sqrt{18 \times 18} = 18$

Hence, the square root of the product of these numbers is **18**

---

**66. Answer: a**

### Explanation:

**To find:-** the ratio of the total number of girls who appeared in 2012 and 2015 to the total number of boys who appeared for the class X examination in 2012 and 2013

#### Calculation:-

The total number of girls who appeared in 2012 is 325

The total number of girls who appeared in 2015 was 325

Hence, the total number of girls in 2012 and 2015 is- 650

The total number of boys in 2012- 250

The total number of boys in 2013- 300

Hence, the total number of boys in 2012 and 2013 is- 550

So taking the ratio- 650 : 550 makes **13 : 11**

Hence, the correct answer is **Option 1.**

---

### 67. Answer: c

#### Explanation:

#### Calculation:-

The total number of girls who appeared in 2012, 2013, 2014 and 2015 are-  $325 + 350 + 320 + 325 = 1320$

The total number of boys who appeared in all the five years are-  $225 + 250 + 300 + 280 + 375 = 1430$

Difference between them is=  $1430 - 1320 = 110$

percentage calculation-  $\frac{110}{1430} \times 100 = \frac{100}{13} = 7.69$

Hence, the correct answer is **Option 3 i.e. 7.7%**

68. Answer: d

**Explanation:**

**Given:-**

The selling price of an article is- Rs 388 and the loss is 3%

**Calculation:-**

The cost price of an article will be:-  $\frac{388}{97} \times 100 = 400$

We need to find the selling price of an article when the profit % is 18%

$$\Rightarrow \frac{400 \times 118}{100} = 472$$

Hence, the selling price of an article is- 472.

69. Answer: d

**Explanation:**

**Given:-**

$$0.2 \div 0.025 + 39 + 0.92 \div 0.2 \times 5 - 4.9 \div 0.07$$

**Calculation:-**

$$\Rightarrow \frac{2}{10} \div \frac{25}{1000} + 39 + \frac{92}{100} \div \frac{2}{10} \times 5 - \frac{49}{10} \div \frac{7}{100}$$

$$\Rightarrow \frac{2 \times 1000}{10 \times 25} + 39 + \frac{92 \times 10}{2 \times 100} \times 5$$

$$\Rightarrow 8 + 39 + 23 - \frac{49}{7} \times 10$$

$$\Rightarrow 70 - 70 = 0$$

Hence, the correct answer is 0.

70. Answer: c

**Explanation:**

Given:-

Work done by A= 15 days and Work done by B= 20 days.

Calculation:-

In the given question, we know that A can complete a work in 15 days then the efficiency will be=  $1/15$

Similarly, the efficiency of B will be=  $1/20$

Then the work done by them will be-  $(1/15) + (1/20) = 7/60$  i.e.  $60/7$  days.

The question asked for how many days will they complete 70% of the same work=  $(60/7) * (70/100) = 6$  days.

Hence, 70% of the same work will be completed in **6 days**.

---

71. Answer: d

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**Explanation:**

Given

length, l = 25 m

breadth, b = 12 m

height, h = 6m

Formula used

Surface area of 5 sides =  $2(lb + hb + hl) - lb$

where  $l$ ,  $b$  and  $h$  are length, breadth and height respectively

### Calculation

$$\text{surface area of tank} = 2(25 \times 12 + 12 \times 6 + 6 \times 25) - 25 \times 12$$

$$\Rightarrow 2(300 + 72 + 150) - 300$$

$$\Rightarrow 2(522) - 300$$

$$\Rightarrow 1044 - 300$$

$$\Rightarrow 744$$

$$\text{Cost of plastering the tank} = 744 \times 10$$

$$\Rightarrow \text{Rs. } 7440$$

$\therefore$  The cost (in Rs) of plastering its walls and bottom at Rs. 10 per  $\text{m}^2$  is 7440

---

## 72. Answer: b

### Explanation:

Given:-

A can complete 40% of a work in 6 days, and B can complete the work in  $15/2$

Calculation:-

A can complete 40% of a work in 6 days this means that =  $40/100 \times 1/6 = 1/15$

B can complete work in  $15/2$  days then the efficiency will be =  $2/15$

$$\Rightarrow (A + B) = \frac{1}{15} + \frac{2}{15}$$

$$\Rightarrow \frac{3}{15} = \frac{1}{5}$$

$\Rightarrow$  5 days.

Hence, Working together they can complete the work in= **5 days**.

---

**73. Answer: b**

**Explanation:**

**Given:-**

The distance traveled by a car is=  $x$  km

The speed of a car is=  $50/9$  m/sec

**Calculation:-**

According to the question, the speed is  $\frac{50}{9}$  m/sec hence, we need to convert this into km because the distance is in the kilometers.

$$\Rightarrow \frac{50}{9} \times \frac{18}{5} = 20km/hr$$

Similarly,  $5 \times \frac{18}{5} = 18km/hr$

$\Rightarrow \frac{x}{20} + \frac{x}{18}$  as  $x$  is a distance. Also, this is a sum of two going and return speeds.

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

$$\Rightarrow \frac{19 \times x}{180} = \frac{38}{5}$$

$$\Rightarrow x = 72km$$

According to the question we need to find out the value of  $(x + 3) = 75$  km.

---

**74. Answer: b**

**Explanation:**

**Calculation:-** According to the question, the number of boys in 2011 is= 225

The number of boys in 2013 is= 300

The number of boys in 2015 is= 375

The summation of these three is=  $225 + 300 + 375 = 900$

Hence, the average is=  $900/3= 300$

The number of girls appeared in 2014 is= 320

$$\Rightarrow (320 - 300) \div 320 \times 100$$

$$\Rightarrow 100 \div 16$$

$$\Rightarrow 6.25\%$$

Hence, the average of the number of boys who appeared in 2011, 2013, and 2015 is 6.25% less than the number of girls who appeared in 2014.

---

### 75. Answer: c

#### Explanation:

Given:-

60% of the voters are male.

40% of the males are illiterate and 25% of the females are literate.

**Calculation:-** Let the total population is 100

Hence, the number of voters who are male is= 60, and the number of voters who are females is= 40

$$40\% \text{ of the male are illiterate} = \frac{40}{100} \times 60 = 24$$

$$25\% \text{ of the females are literate} = \frac{25}{100} \times 40 = 10$$

The number of illiterate males is 14 more than that of literate females.

$$\Rightarrow \frac{14}{10} \times 100 = 140 \%$$

Hence, the correct answer is **140%**.



76. Answer: d

**Explanation:**

The correct answer is Ben Stokes.

- Captain Joe Root called Ben Stokes "Mr. Incredible" after the all-rounder put in another match-winning performance for England in the second Test against West Indies at Emirates Old Trafford.
  - **Benjamin Andrew Stokes** is an English cricketer who is the current vice-captain of the England Test team and plays for the England One Day International (ODI) and Twenty20 International (T20I) teams.
  - In domestic cricket, he represents **Durham** and has played in several Twenty20 leagues including **Rising Pune Supergiant** and **Rajasthan Royals** in the Indian Premier League.

★ Additional Information

Cricket World Cup	Hosts
2023	<ul style="list-style-type: none"> <li>• India</li> </ul>
2027	<ul style="list-style-type: none"> <li>• Namibia</li> <li>• South Africa</li> <li>• Zimbabwe</li> </ul>
2031	<ul style="list-style-type: none"> <li>• Bangladesh</li> <li>• India</li> </ul>

77. Answer: b

## Explanation:

The correct answer is 13.

- In India, the provisions for the Freedom of Trade, Commerce, and Intercourse are provided under Part XIII of the Indian Constitution.

### ★ Key Points

- **Part 13: Trade, Commerce, And Intercourse Within The Territory Of India**
  - **Article 301:** Freedom of trade, commerce, and intercourse
  - **Article 302:** Power of Parliament to impose restrictions on trade, commerce, and intercourse
  - **Article 303:** Restrictions on the legislative powers of the Union and of the States with regard to trade and commerce
  - **Article 304:** Restrictions on trade, commerce, and intercourse among States
  - **Article 305:** Saving of existing laws and laws providing for State monopolies
  - **Article 306:** Power of certain States in Part B of the First Schedule to impose restrictions on trade and commerce
  - **Article 307:** Appointment of authority for carrying out the purposes of articles 301 to 304

### ★ Additional Information

- **Part 10:** The Scheduled And Tribal Areas
- **Part 15:** Elections
- **Part 20:** Amendment Of The Constitution

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78. **Answer: a**

## Explanation:

The correct answer is Taj Mahotsav.

- The Taj Mahotsav is an annual 10-day (from 18 to 27 February) event at Shilpgram in Agra, India.
  - The festival brings back memories of the old Mughal period and the Nawabi style prevalent in Uttar Pradesh in the 18th and 19th centuries.

★ Additional Information

Festival	Details
Ziro Festival	<ul style="list-style-type: none"> <li>• Ziro Festival of Music is an outdoor music festival held in the Ziro valley in the northeast Indian state of <b>Arunachal Pradesh</b> .</li> </ul>
Tansen Music Festival	<ul style="list-style-type: none"> <li>• Tansen Samaroh is celebrated every year in the month of December in <b>Gwalior district, Madhya Pradesh</b> .</li> </ul>
Natyanjali Nriya Utsav	<ul style="list-style-type: none"> <li>• Natyanjali is an annual dance festival in memory of the Hindu deity Shiva.</li> <li>• It began around <b>1981</b> and began as a relatively obscure event.</li> <li>• It is currently organized by the <b>Tamil Nadu Tourism Department and the Natyanjali Trust</b> in collaborative efforts.</li> </ul>

79. Answer: b

**Explanation:**

Minor sonis NOT correct.

- **Maintenance and Welfare of Parents and Senior Citizens Act, 2007 (Definitions):**
  - Children includes son, daughter, grandson, granddaughter, son-in-law, daughter-in-law but do not include minors.

- Maintenance includes provision for food, clothing, residence, medical attendance and treatment.
- Parent means father or mother whether biological, adoptive or step father or step mother, father or mother is a senior citizen or not.
- Senior Citizen means an Indian who has attained the age of 60 years or more.
- Relative means any legal heir of a childless senior citizen who is not a minor and is in possession of or will inherit his property after his death.
- Welfare means the provision of food, health care, recreation centers and other essential facilities for senior citizens.

### ★ Key Points

- **Maintenance and Welfare of Parents and Senior Citizens Act, 2007** is legislation, initiated by the Ministry of Social Justice and Empowerment, Government of India.
- It received President's assent on **December 29, 2007**.
- **Objectives of the Act:**
  - The Act provides for an expensive and quick process for parents and senior citizens to claim monthly maintenance.
  - The Act imposes an obligation on children to maintain such senior citizens by their parents/grandparents and relatives of senior citizens.
  - The main attraction of this Act is the provisions to protect the life and property of such persons.
  - The Act also provides for the establishment of old age homes to provide maintenance to poor senior citizens and parents. This act is spread all over India.

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80. Answer: a

**Explanation:**

Acrobatic gymnastics is NOT correct.

- **Gymnastics Olympic events:** There are three separate disciplines at the Olympic Games in the sport of gymnastics:
  - **Artistic Gymnastics**- athletes compete on different apparatus and floor routines in individual and team events.
  - **Rhythmic Gymnastics** - competitors perform choreographed routines incorporating hand-held apparatus.
  - **Trampoline** - involves bouncing on a trampoline to heights up to eight metres, while the athletes perform acrobatic movements such as twists and somersaults in mid-air. Points are awarded for difficulty, execution and flight time.

★ Key Points

- **Gymnastics** events have been held at every Summer Olympic Games since the birth of the modern Olympic movement at the 1896 Summer Olympics in Athens.
  - For 32 years, only men were allowed to compete.
  - Starting with the 1928 Summer Olympics in Amsterdam, women were also allowed to compete in **artistic gymnastics events**.
  - **Rhythmic gymnastics** events were introduced at the 1984 Summer Olympics in Los Angeles, and trampoline events were added at the 2000 Summer Olympics in Sydney.

★ Additional Information Your Personal Exams Guide

List of Olympic Games host cities:

City	Country	Year
Brisbane	Australia	2032
Los Angeles	United States	2028
Paris	France	2024

81. Answer: d

## Explanation:

Hypothalamus is NOT correct.

- Hindbrain Parts: These parts are Pons, Medulla Oblongata, and the Cerebellum.

### ★ Key Points

- **Functions of hindbrain**
  - It is responsible for controlling the lungs as well as the heart. It also controls **heart rate, breathing, blood pressure, sneezing, and swallowing** .
  - The cerebellum helps in coordinating the various muscles that enable the voluntary movements we make.
  - The cranial nerves in the medulla oblongata also have many functions.

### ★ Additional Information

- **Human brain:**
  - On average, an adult brain weighs between 1.0 kg - 1.5 kg. It is mainly composed of neurons – the fundamental unit of the brain and nervous system.
  - **Parts of Human Brain:**
    - **Forebrain** – Largest part of the brain
      - It is the anterior part of the brain. The forebrain parts include:
        - Cerebrum
        - Hypothalamus
        - Thalamus
        - Forebrain Function: Controls the reproductive functions, body temperature, emotions, hunger, and sleep.
    - **Midbrain** : Smallest and central part of the brain
      - The midbrain consists of:
        - Tectum
        - Tegmentum
    - **Hindbrain** : The lower part of the brain
      - Cerebellum
      - Medulla
      - Pons

82. Answer: a

**Explanation:**

The correct answer is hydrogen.

- Metals react with acids to produce hydrogen gas.
  - When metals react with acids, they replace the hydrogen from the acids.
  - This hydrogen is evolved in the form of gas during the reaction.

★ Key Points

- The general chemical equation for this reaction is: **Metal + Acid → Salt + Hydrogen gas**
  - But this reaction is given by only those metals that are more reactive than hydrogen.
  - The more reactive metals displace hydrogen from the acid and lead to the formation of salt and hydrogen gas.
  - The Alkali metals and the Alkaline Earth Metals, readily produce hydrogen gas on reacting with acids.
  - Eg:  $2\text{Na} + 2\text{HCl} \rightarrow 2\text{NaCl} + \text{H}_2$

★ Additional Information

Types of Chemical Reactions	Explanation
Combination reaction	Two or more compounds combine to form one compound.
Decomposition reaction	The opposite of a combination reaction – a complex molecule breaks down to make simpler ones.
Precipitation reaction	Two solutions of soluble salts are mixed resulting in an insoluble solid (precipitate) forming.
Neutralization reaction	An acid and a base react with each other. Generally, the product of this reaction is a salt and water.
Combustion reaction	Oxygen combines with a compound to form carbon dioxide and water. These reactions are exothermic, meaning they give off heat.
Displacement reaction	One element takes place with another element in the compound.

83. Answer: d

**Explanation:**

The correct answer is Godavari.

- **The Godavari** is the second longest river in India after the Ganges and the third largest in India, accounting for about 10% of the total geographical area of India.
  - Its source is in Trimbakeshwar, Nashik, Maharashtra.
  - It flows east for 1,465 kilometers (910 mi), draining the states of Maharashtra (48.6%), Telangana (18.8%), Andhra Pradesh (4.5%), Chhattisgarh (10.9%) and Odisha (5.7%).
  - The river eventually drains into the Bay of Bengal through an extensive network of tributaries.



- It is one of the largest river basins in the Indian subcontinent, with only the Ganges and Indus rivers having a large drainage basin.
- In terms of length, catchment area and discharge, the Godavari is the largest in peninsular India, and was dubbed as **Dakshina Ganga (Ganga of the South)**.

★ Additional Information

Rivers	Source
Kaveri	Talakaveri, Kodagu, Western Ghats, Karnataka.
Narmada	Vindhyachal Parvat Amarkantak Plateau, Anuppur district, Central India, Madhya Pradesh
Mahanadi	Nagri-Sihawa, Dhamtari, Dandakaranya, Chhattisgarh, India

84. Answer: c

**Explanation:**

The correct answer is diamond.

- The absolute refractive index of diamond is 2.42.

★ Key Points

- **Absolute refractive index**
  - The absolute refractive index is defined as the ratio of the speed of light in vacuum and in the given medium.
  - The absolute refractive index should never be less than 1.

★ Important Points

Absolute refractive index of some material media:

Material medium	Refractive index
Air	1.003
Ice	1.31
Water	1.33
Alcohol	1.36
Kerosene	1.44
Fused quartz	1.46
Rock salt	1.54
Diamond	2.42

85. Answer: c

Explanation:

The liver is situated in the upper part of the abdomen on the left side is INCORRECT.

- The liver is a reddish-brown, wedge-shaped organ consisting of two halves of unequal size and shape.
- A human liver typically weighs about 1.5 kg and is about 15 cm in width.
- It is both the heaviest internal organ and the largest gland in the human body.
- Located in the right upper quadrant of the abdominal cavity, it is located on the right side of the abdomen, just below the diaphragm and above the gallbladder.
- The liver secretes bile, a digestive fluid; metabolizes proteins, carbohydrates, and fats; stores glycogen, vitamins, and other substances; synthesizes blood-clotting factors; Removes waste and toxins from the blood; Regulates blood volume, and destroys old red blood cells.

★ Additional Information

- **The liver** is a major organ found only in vertebrates that performs many essential biological functions such as detoxification of the organism, and synthesis of proteins and biochemicals necessary for digestion and growth.
  - In humans, it is located in the right upper quadrant of the abdomen, below the diaphragm. Its other roles in metabolism include regulation of glycogen storage, the breakdown of red blood cells, and hormone production.

86. Answer: b

### Explanation:

The correct answer is 1920.

- The Oudh Kisan Sabha was founded in 1920 by Baba Ram Chandra.
  - He was a trade unionist who gathered Oudh's farmers and led the first anti-landlord demonstration.
  - **Jawaharlal Nehru, Baba Ramchandra and others** founded the Oudh Kisan Sabha, commonly known as the Oudh Kisan Sabha.
  - It was established to oppose the zamindars and talukdars who demanded excessive taxes and rent.

### ★ Additional Information

- **Some of the Movements:**
  - Indigo Rebellion (1859–62)
  - Pabna Movement (1870s–80s)
  - Deccan Riots (1875)
  - Champaran Satyagraha (1917)
  - Kheda Satyagraha (1918)
  - Moplah Rebellion (1921)
  - Bardoli Satyagraha (1928)

87. Answer: b

## Explanation:

The correct answer is Roald Dahl.

- Boy: Tales of Childhood (1984) is an autobiographical book by British writer Roald Dahl.
  - This book describes his life from birth until leaving school, focusing on living conditions in Britain in the 1920s and 1930s, the public school system at the time, and how his childhood experiences led him to write as a career.

### ★ Additional Information

Some of the Autobiographies:

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Author	Books
A. P. J. Abdul Kalam	Wings of Fire
Adolf Hitler	Mein Kampf
Albert Einstein	Autobiographical Notes
Andre Agassi	Open: An Autobiography
Babur	Baburnama
Barack Obama	Dreams from My Father
Charlie Chaplin	My Autobiography
Dalai Lama	Freedom in Exile
Jawaharlal Nehru	An Autobiography
Leo Tolstoy	My Confession
Marilyn Monroe	My Story
Mahatma Gandhi	The Story of My Experiments with Truth
Mark Twain	Mark Twain's Autobiography, posthumous
Muhammad Ali	The Greatest: My Own Story
Nelson Mandela	A Long Walk to Freedom
Usain Bolt	Faster than Lightning: My Autobiography

88. Answer: c

Explanation:

The correct answer is 1.64.

- India's average exponential growth rate (population) for the period 2001-2011 was 1.64% per annum.
  - The percentage of decadal growth during 2001-2011 has registered the sharpest decline since Independence – from **23.9 for 1981-1991** and **21.5 for 1991-2001** to **17.6 percent today** – a decrease of a sharp 3.9 over the past decade's 2.3 percentage points.
  - Similarly, the average exponential growth rate for 2001-2011 has declined from about 2 percent per annum during 1991-2001 to 1.6 percent per annum.
  - The average annual exponential growth rate during **1981-1991 was 2.2** .

★ Additional Information

- **The 2011 Census of India or the 15th Census of India** was conducted in two phases, House Listing and Population Enumeration.
  - According to the provisional reports released on 31 March 2011, the Indian population increased to 1.21 billion with a decadal growth of 17.70%.
  - The adult literacy rate increased to **74.04% with a decadal growth of 9.21%**.
  - The motto of the census was ' **Our census, our future** '.
- The 2021 Census of India, also the 16th Indian Census, will be taken in 2022.

89. Answer: b

**Explanation:**

The correct answer is Haldia-Allahabad stretch of the Ganga-Bhagirathi-Hooghly river.

- National Waterway 1 (NW-1) or the Ganga-Bhagirathi-Hooghly river system is located in India and runs across the Ganges from Prayagraj in Uttar Pradesh to Haldia in West Bengal via Patna and Bhagalpur in Bihar.
  - The Ganga - Bhagirathi - Hooghly river system between Haldia (Sagar) and Allahabad (1620 km) was declared as National Waterway-1 (NW-1) in 1986.

- Since then IWAI is carrying out various developmental works on the waterway for improvement of its navigability and also development and maintenance of other infrastructures such as navigation aids and terminal facilities as laid down in the IWAI Act, 1985 (82 of 1985).

★ Additional Information

Name	River	States
NW-1	Allahabad-Haldia stretch of the Ganga-Bhagirathi-Hooghly Rivers	UP, Bihar, Jharkhand, West Bengal
NW-2	Sadiya-Dhubri stretch of Brahmaputra River	Assam
NW-3	Kollam-Kozhikode stretch of West Coast Canal and Champakara canal and Udyogmandal canal	Kerala
NW-4	Kakinada to Puducherry (Buckingham canal) Andhra Pradesh	Andhra Pradesh, Tamil Nadu and Puducherry
NW-6	Aai River, Barak River	Assam
NW-16	Barak River	Assam

90. Answer: b

**Explanation:**

The correct answer is Tawa.

- **Tawa Reservoir** is a reservoir located on the Tawa River in central India.
  - It is situated above Betul district at Itarsi in Hoshangabad district of Madhya Pradesh state.

- The reservoir was formed by the construction of the Tawa Dam, which began in 1958 and was completed in 1978.

★ Key Points

Dams	Location
Koyna	Koyna Nagar, Maharashtra
Tawa	Hoshangabad, Madhya Pradesh
Isapur	Kalamnuri, Maharashtra
Ujjani	Solapur, Maharashtra

★ Important Points

The list of some major dams in India have been given below:

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Dams	State	River
Bhavani Sagar dam	Tamil Nadu	Bhavani
Tungabhadra Dam	Karnataka	Tungabhadra
Rihand Dam	Uttar Pradesh	Rihand
Maithon Dam	Jharkhand	Barakar
Koyna Dam	Maharashtra	Koyna
Bisalpur Dam	Rajasthan	Banas
Mettur Dam	Tamil Nadu	Kaveri
Krishnarajasagar Dam	Karnataka	Kaveri
Indira Sagar Dam	Madhya Pradesh	Narmada
Cheruthoni Dam	Kerala	Cheruthoni
Sardar Sarovar Dam	Gujarat	Narmada
Nagarjuna Sagar Dam	Telangana	Krishna
Hirakud dam	Odisha	Mahanadi
Bhakra Nangal Dam	Punjab-Himachal Pradesh Border	Sutlej
Tehri Dam	Uttarakhand	Bhagirathi

91. Answer: c

**Explanation:**

The correct answer is Holi.

- The Rathwas, who dwell in Rath-Vistar, the hilly area of the southeastern part of Gujarat state, perform the Rathwa ni Gher dance on the occasion of Holi

(festival of colours) also known as Kavant festival, named after the place where the Holi carnival takes place.

- It is popular in places like **Chhota Udepur, Kanwant and Pavijetpur Talukas** (subdivisions) of the Vadodara district, and Jambughoda, Narukot, and Ghoghamba Talukas (subdivisions) of Panchmahal district of the south-eastern parts of Gujarat.
- The Gher (dance with music) performances begin on Dhulendi, which is, literally, 'the day of flying coloured dust'.

★ Additional Information

Festivals	Description
Dussehra	<ul style="list-style-type: none"> <li>• Dussehra is celebrated on the <b>10th day of the month of Ashvina</b> (September–October), the seventh month of the Hindu calendar, with the appearance of the full moon, an event called the “bright fortnight” (Shukla paksha).</li> </ul>
Janmashtami	<ul style="list-style-type: none"> <li>• Janmashtami is celebrated when Krishna is believed to have been born according to Hindu tradition, which is in Mathura, at midnight on the <b>eighth day of Bhadrapada month</b> .</li> </ul>
Holi	<ul style="list-style-type: none"> <li>• This festival marks the blossoming of spring after the long winter season. It is celebrated on the full moon day of spring in the month of <b>Phalguna</b> of the Hindu calendar. (February March).</li> </ul>
Makar Sankranti	<ul style="list-style-type: none"> <li>• Makar Sankranti 2022 date is decided by the Hindu solar calendar and is on the <b>first day of the 10th solar month Magh</b> when the Sun is making a transition from Dhanu Rashi to Makar Rashi.</li> </ul>

92. Answer: a

Explanation:

The correct answer is Maharashtra.

- The Gross GST (Goods and Services Tax) revenue collection for December 2019 has crossed the Rs 1 lakh crore mark, showing a growth of 16 per cent in revenue.
  - State-wise, Maharashtra recorded the highest GST collection for December at Rs 16,530 crore, followed by Karnataka (Rs 6,886 crore) and Tamil Nadu (Rs 6,422 crore).
  - In November, GST revenue stood at Rs 1.03 lakh crore, showing a growth of 9 per cent.
  - The gross GST revenue collected in October was Rs 95,380 crore.
  - It was Rs 91,916 crore in September, while the tax collection in August was Rs 98,202 crore.

★ Additional Information

- The **Goods and Services Tax (GST)** is an indirect tax (or consumption tax) used on the supply of goods and services in India.
  - It is a comprehensive, multilevel, destination-based tax: comprehensive because it includes almost all indirect taxes except some state taxes.
  - In India, the GST Bill was first introduced as the Constitution **(122nd Amendment) Bill in 2014** .
  - It was approved in 2016 and re-designated by Rajya Sabha as the **Constitution (101st Amendment) Act, 2016** .
  - **Article 246A** - States have the right to levy taxes on goods and services.
  - On **1st July 2017** , GST to be applicable across India.

93. Answer: b

Explanation:

The correct answer is Kanakakkunnu Palace.

★ Key Points

- Kanakkunnu Palace is located in Thiruvananthapuram near the Napier Museum of India.
  - This is India's first digital garden, designed by Akhilesh S V Nair and A Gangaprasad, University of Kerala, Department of Botany.
  - Now protected by the Department of Tourism, the palace hosts a lot of cultural events and events.
  - The **Indian National Trust for Art and Cultural Heritage (INTACH)** has listed this place as a heritage monument.

★ Additional Information

Palaces	Location
Chowmahalla Palace	Hyderabad, Telangana
Kanakakkunnu Palace	Thiruvananthapuram, Kerala
Ujjayanta Palace	Agartala, Tripura
Amber Palace	Jaipur, Rajasthan

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94. Answer: c

**Explanation:**

The correct answer is Satyameva Jayate.

- Madan Mohan Malaviya was the freedom fighter credited with popularizing the slogan Satyameva Jayate (the truth alone shall triumph).
  - Madan Mohan Malaviya was an Indian scholar, education reformer and politician, notable for his role in the Indian independence movement, four times of the Indian National Congress.
  - President and founder of the **All India Hindu Mahasabha** .

- He was respectfully addressed as Pandit and was also addressed as Mahamana .

★ Additional Information

Famous slogans of pre/ post-independent India:

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Famous Quotes and Slogan	Name
Inqilab Zindabad	Bhagat Singh
Dilli Chalo	Subhash Chandra Bose
Do or die	Mahatma Gandhi
Jai Hind	Subhash Chandra Bose
Purna Swaraj	Jawahar Lal Nehru
Hindi, Hindu, Hindustan	Bharatendu Harishchandra
Back to the Vedas	Dayanand Saraswati
Jai jawan Jai Kisan	Lal Bahadur Shastri
Vande Mataram	Bankim Chandra Chatterjee
Swaraj (Self Rule) is my birth right	Bal Gangadhar Tilak
Simon Commission Go back	Lala Lajpat Rai

Who lives if India dies	Jawahar Lal Nehru
Give me blood and I will give you freedom	Subhash Chandra Bose
Jai Jawan Jai kisan Jai Vigyan	Atal Bihari Vajpayee

95. Answer: c

**Explanation:**

The correct answer is **8 August 1942**.

- **Quit India Movement started on 8 August 1942** from Gowalia Tank Maidan, also known as August Kranti Maidan in Mumbai.
  - At the August Kranti Maidan, **Mahatma Gandhi delivered his famous "do or die" speech, which marked the beginning of the Quit India Movement.**

★ **Important Points**

- **Aruna Asaf Ali**, popularly known as the ' **Grand Old Lady** ' of the independence movement, is known for hoisting the Indian flag at the Gowalia Tank Maidan in Mumbai during the Quit India Movement.
- The slogan ' **Quit India** ' was coined by **Yusuf Meherli**, a socialist and trade unionist who also served as the Mayor of Mumbai.
- **Meherali** also coined the slogan " **Simon go back** ".

★ **Additional Information**

- **List of some of the Indian National Movements:**
  - Indian National Congress Founded - 28 December 1885
  - Swadeshi and Boycott Resolution - 1905
  - Muslim League Founded - 1906
  - Gadhar Movement -1913
  - Home Rule Movement - April 1916

- Champaran Satyagraha - 1917
- Kheda Satyagraha - 1918
- Ahmedabad Mill Strike - 1918
- Rowlatt Act Satyagraha - February 1919
- Non-Cooperation Movement - 1920
- Civil Disobedience movement - 1930

96. Answer: d

Explanation:

The correct answer is Lala Lajpat Rai.

- Lala Lajpat Rai died on November 17, 1928 after being seriously injured during a lathi charge by the police.
  - When the Simon Commission visited Lahore on October 30, 1928, Lala Lajpat Rai led the commission's protest in a silent non-violent march, but the police responded with violence.
  - He opposed the commission as not a single Indian was included as a member in it.

★ Key Points

- **Lala Lajpat Rai** was an Indian writer, freedom fighter and politician.
  - He was known as **Punjab Kesari** .
  - He was one of the three members of the **Lal Bal Pal** trio.
  - He was also involved in the early activities of **Punjab National Bank and Lakshmi Insurance Company in 1894** .

★ Additional Information

- **Bal Gangadhar Tilak** endeared as Lokmanya was an Indian nationalist, teacher, and an independence activist.
  - He was one third of the Lal Bal Pal triumvirate.
  - Tilak was the first leader of the Indian independence movement.



- The British colonial authorities called him " **The father of the Indian unrest** ."
- He was also conferred with the title of " **Lokmanya** ", which means "accepted by the people as their leader".
- Mahatma Gandhi called him " **The Maker of Modern India** ".
- **Bipin Chandra Pal** was an Indian nationalist, writer, orator, social reformer and freedom fighter of the Indian independence movement.
  - He was one third of the third of "Lal Bal Pal".
  - Pal was one of the main architects of the Swadeshi movement along with Sri Aurobindo.
- **Gopal Krishna Gokhale** was an Indian 'liberal' political leader and a social reformer during the Indian independence movement.
  - Gokhale was a senior leader of the Indian National Congress and the founder of the **Servants of India Society** .
  - He was the leader of the moderate faction of the Congress Party, which advocated reforms by working with existing government institutions, and was a prominent member of the Poona Association or the **Poona Sarvajainik Sabha** .

97. Answer: b

Explanation:

The correct answer is Bacteria.

★ Key Points

- Cholera is caused by a bacteria.
  - It spreads through contaminated food and water.
  - It can be prevented by eating properly cooked food and drinking boiled water.
  - Name of bacteria: **Vibrio Cholerae**
  - Way of Transmission: One can be infected by drinking water or eating food contaminated by the bacterium
  - Affected Organs: **Intestine**

★ Additional Information

Diseases Caused by	Diseases
Protozoa	<ul style="list-style-type: none"> <li>• <b>Malaria</b> - Affected Organs: Red Blood Corpuscle (RBC) and Liver.</li> <li>• <b>Kala-ajar</b> - Affected Organs: Bone marrow</li> <li>• <b>Sleeping Sickness</b> - Affected Organs: Brain</li> <li>• <b>Diarrhoea</b> - Affected Organs: Intestine</li> </ul>
Bacteria	<ul style="list-style-type: none"> <li>• <b>Typhoid</b> - Affected Organs: Intestine</li> <li>• <b>Tuberculosis (TB)</b> - Affected Organs: Lungs</li> <li>• <b>Diphtheria</b> - Affected Organs: Respiratory tube</li> <li>• <b>Plague</b> - Affected Organs: Lungs, the area between the two legs.</li> <li>• <b>Whooping cough</b> - Affected Organs: Respiratory system</li> </ul>
Viruses	<ul style="list-style-type: none"> <li>• <b>AIDS</b> - Affected Organs: Defensive system, White Blood Corpuscle WBC</li> <li>• <b>Dengue Fever</b> - Affected Organs: Whole-body particularly head, eyes, and joints.</li> <li>• <b>Polio</b> - Affected Organs: Nerve, backbone</li> <li>• <b>Influenza (flu)</b> - Affected Organs: Whole body</li> <li>• <b>Chicken pox</b> - Affected Organs: Whole body</li> <li>• <b>Smallpox</b> - Affected Organs: Whole body</li> <li>• <b>Rabies</b> - Affected Organs: Nervous system</li> </ul>
Fungus	<ul style="list-style-type: none"> <li>• <b>Asthma</b> - Affected Organs: Lungs</li> <li>• <b>Athlete's Foot</b> - Affected Organs: feet, toes soles.</li> <li>• <b>Scabies</b> - Affected Organs: Skin</li> </ul>

98. Answer: b

Explanation:

The correct answer is Rajendra Singh.

- Rajendra Singh is an Indian water conservationist and environmentalist from the Alwar district of Rajasthan, India. Also known as "waterman of India", he won the Magsaysay Award in 2001 and Stockholm Water Prize in 2015.
  - He runs an NGO named 'Tarun Bharat Sangh' (TBS), which was established in 1975. The NGO is located at village Hori-Bhikampura in Thanagazi tehsil near Sariska Tiger Reserve.

★ Additional Information

- **Stockholm Water Prize**
  - Awarded annually since **1991**, the Stockholm Water Prize is an award that recognizes outstanding achievements in water-related activities. Over the past two decades, Stockholm Water Prize winners have come from all over the world and represent a wide range of businesses, disciplines and activities in the water sector.
  - **Past winners**
    - **2021: Sandra Postel**
    - 2020: John Cherry
    - 2019: Jackie King
    - 2018: Bruce Rittmann and Mark van Loosdrecht
    - 2017: Stephen McCaffrey
    - 2016: Joan Rose

99. Answer: b

Explanation:

The correct answer is Platform for Effective Enforcement for No Child Labour.

- 'PENCIL' is an acronym for Platform for Effective Enforcement for No Child Labour is an electronic portal launched by the Government of India in September 2017.

★ Key Points

- PENCIL is an electronic platform that aims to involve the Central, State, District, Governments, civil society and general public in achieving the goal of a child labor free society.
  - Shri Rajnath Singh also launched the **Standing Operating Procedure (SOP)** to implement the legal framework against child labour.
  - The **objective of the SOP** is to create a ready reckoner for the trainers, doctors and monitoring agencies to ensure complete prohibition of child labor and protection of adolescents from hazardous labor to ultimately lead to a child labor free India.

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100. Answer: b

**Explanation:**

The correct answer is 1999.

- The 'Clean Note Policy' was announced by the Reserve Bank of India in the year 1999.
  - RBI introduced the Clean Note Policy in 1999, in which banks were asked not to give soiled, mutilated or written notes to customers and deposit it with the RBI.
  - **In 2002**, under the Clean Note Policy, RBI advised banks to stop stapling currency notes.

★ Additional Information

- **The Reserve Bank of India (RBI)** is the central bank and regulatory body of India and is responsible for the issue and supply of the Indian Rupee and regulation of the Indian banking system.

- It also manages the country's main payment systems and works to promote its economic development.
- Reserve Bank of India Note Printing is one of the specialized divisions of the Reserve Bank of India through which it mints Indian banknotes and coins.
- Deposit Insurance and Credit Guarantee Corporation was established by RBI as one of its specialized division with the objective of providing deposit insurance and guarantee of credit facilities to all Indian banks.

### ★ Important Points

- Till the setting up of the Monetary Policy Committee in 2016, it also had complete control over monetary policy in the country. It commenced its operations on 1st April 1935 in accordance with the Reserve Bank of India Act, 1934.
  - After India's independence on 15 August 1947, RBI was nationalized on 1 January 1949 .

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