

# Prepp

## Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

# SSC MTS Previous Year Paper (Held on: 12 July 2022 Shift 2)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

## Instructions

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

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

## General Intelligence & Reasoning

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

TOM, UMP, VKS, ?, XGY

- a. WHU
- b. WIV
- c. WIU
- d. WHV

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

121, 144, 169, ?, 225, 256

- a. 196
- b. 192
- c. 188
- d. 194

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

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

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

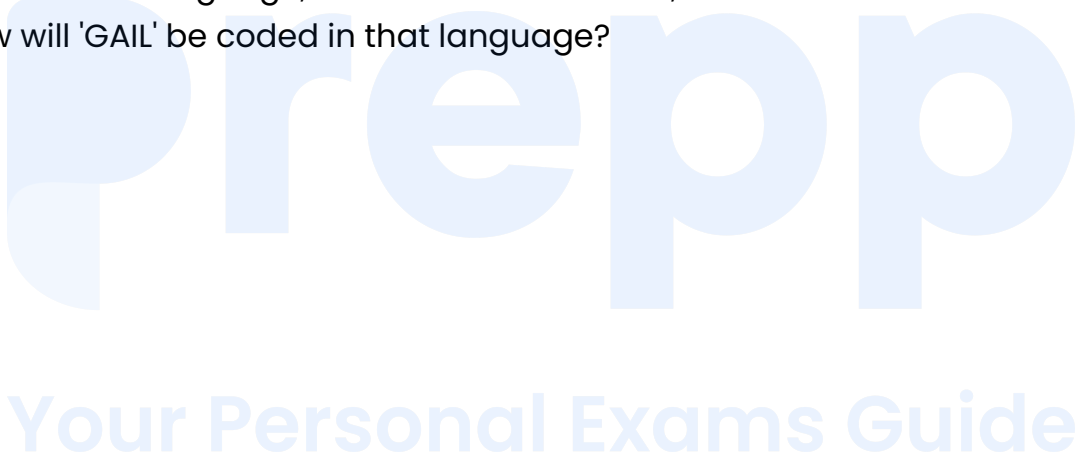
17 : 19

- a. 23 : 27
- b. 43 : 53
- c. 29 : 31
- d. 31 : 41

---

4. In a certain code language, 'GANT' is coded as '126', and 'PROM' is coded as '186'. How will 'GAIL' be coded in that language? (+1, -0.25)

- a. 63
- b. 79
- c. 57
- d. 87



---

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

**Statements:**

- I. All X are B.
- II. All N are X.

**Conclusions:**



- I. All N are B.
- II. Some B are X.
- a. Neither conclusion I nor II follows
- b. Only conclusion II follows
- c. Both conclusions I and II follow
- d. Only conclusion I follows

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



a.



b.



c.



d.

7. 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)

RL : VJ :: AN : ?

- a. FL
- b. EL
- c. FM
- d. EM

8. Select the figure from the options that can replace the question mark (?) and complete the pattern (Rotation is not allowed). (+1, -0.25)

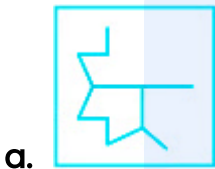
Your Personal Exams Guide





9. Select the figure that will come next in the following figure series.

(+1, -0.25)



10. What will come in the place of '?' in the following equation, if '+' and '×' are interchanged and also '5' and '9' are interchanged?

(+1, -0.25)

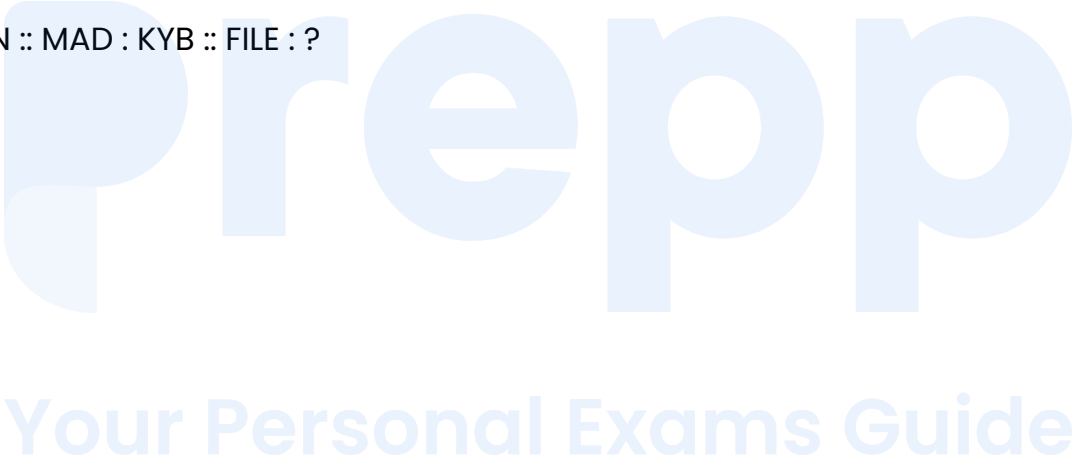
$$3 + 9 - 6 \times 5 \div 3 = ?$$

- a. 10
- b. 16
- c. 12
- d. 14

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

GAP : EYN :: MAD : KYB :: FILE : ?

- a. EJGC
- b. DGJC
- c. EHKD
- d. DKHE



12. By interchanging the given two signs, which of the following equations will NOT be correct? (+1, -0.25)

× and -

I.  $17 - 21 + 86 \div 2 \times 13 = 387$

II.  $10 + 63 - 12 \times 259 \div 7 = 739$

- a. Equation I
- b. Equation II

- c. Neither I nor II
- d. Both I and II

---

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

Statements:

Some mangoes are radish and no radish is an apple.

All apples are tomatoes.

Conclusions:

I: All radish being tomatoes is a possibility.

II: Some radishes are tomatoes.

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

---

14. Seven boys B1, B2, B3, B4, B5, B6 and B7 are sitting around a circular table, facing towards the centre (not necessarily in the same order). B3 is second to the left of B6. B1 is third to the left of B3. B7 is third to the left of B6. (+1, -0.25)

B4 is not the immediate neighbour of B6. B2 is not the immediate neighbour of B1, B5 is the immediate neighbour of B1 and B6.. Three out of

the following four options are similar by a certain logic and form a group. Which of the following does NOT belong to that group?

- a. B3, B6, B1
- b. B6, B1, B7
- c. B2, B5, B4
- d. B7, B4, B1

---

15. In a certain code language, 'SLID' is written as 'TMHC', and 'LIST' is written as 'MJRS'. How will 'PILE' be written in that code language? (+1, -0.25)

- a. QIKC
- b. OHMF
- c. OMHF
- d. QJKD

---

16. 6 persons A, B, C, D, E and F are sitting around a rectangular table (not necessarily in the same order) facing towards the centre. 4 persons are sitting at each corner, and one person is sitting at the middle of each shorter side of the table. B is an immediate neighbour of D and C. F is an immediate neighbour of A and D. E is an immediate neighbour of A and C. F is not sitting at any of the corners. (+1, -0.25)

Which of the following pairs represents the persons who are sitting exactly opposite to each other?

- a. CD
- b. FC

c. AD

d. BE

---

17. Seven friends A, B, C, D, E, F and G have a different number of bikes. D has more bikes than F, but less bikes than G. F has less bikes than A, and A does not have the highest number of bikes. Four persons have more bikes than C. E has the least and D has the third highest number of bikes. B has less bikes than G. Who has the highest number of bikes? (+1, -0.25)

a. B

b. G

c. D

d. A

---

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

8 : 32 :: 12 : 72 :: 18 : ?

a. 180

b. 234

c. 208

d. 162

---

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



16, 32, 14, 19, 37, 21, 22, 42, ?, 25, 47, 35

- a. 34
- b. 26
- c. 32
- d. 28

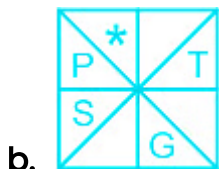
20. Select the figure from the options that can replace the question mark (?) (+1, -0.25) and complete the given pattern.



21. In a certain code language, '693' means 'Neha likes cakes', '135' means 'cakes are sweet', '254' means 'we are girls', then what is the code for 'sweet' in the same code language? (+1, -0.25)

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

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



Your Personal Exams Guide

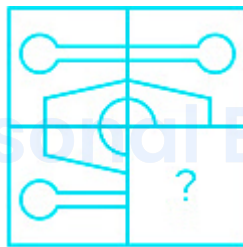


d.

23. In a certain code language, 'GRAY' is coded as '718125', 'FOMK' is coded as '6151311'. How will 'CBHL' be coded in that code language? **(+1, -0.25)**

- a. 23812
- b. 32812
- c. 38212
- d. 32821

24. Select the figure from the options that can replace the question mark (?) **(+1, -0.25)** and complete the pattern (rotation is NOT allowed).



- a.
- b.
- c.

c.



d.

25. Select the option that is related to the fifth word in the same way as the second word is related to the first word and the fourth word is related to the third word.

(+1, -0.25)

Water : Thirst :: Food : Hunger :: Rest : ?

- a. Thought
- b. Wine
- c. Exhaustion
- d. Intoxication

prepp

Your Personal Exams Guide

## Numerical Aptitude

26. A borrows an amount of ₹3,600 from B at a rate of 20% simple interest for 2 years and lends 75% of this amount to C at 20% compound interest for 2 years. A uses the remaining amount for his personal purpose. Find the total loss incurred by A. (+1, -0.25)

- a. ₹928
- b. ₹852
- c. ₹1,152
- d. ₹1,024

27. What is the value of  $y$  in the following equation? (+1, -0.25)

$$(1 \div 23) \text{ of } [2\{3 + 4(35 \div 7)\}] = y$$

- a. 23
- b. 5
- c. 2
- d. 21

28. The marked price of one pen is '₹ $x$ '. The selling price of one packet of 'x' pens, after a discount of 15%, is ₹1,360. What is the value of 'x'? (+1, -0.25)

- a. 20
- b. 40
- c. 30

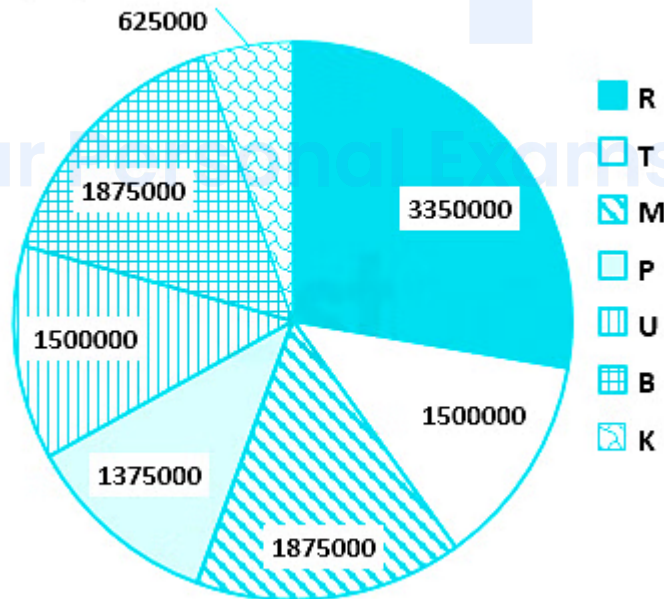
d. 45

29. The slant height and the radius of a right circular cone are 11 cm, and 6 cm, respectively. What is the curved surface area of the cone? (+1, -0.25)

- a.  $60\pi \text{ cm}^2$
- b.  $66\pi \text{ cm}^2$
- c.  $74\pi \text{ cm}^2$
- d.  $44\pi \text{ cm}^2$

30. The following pie chart shows hypothetical populations of different states (K, R, T, M, P, U, B) in the year 2011. (+1, -0.25)

The population of different states in 2011



What is the difference between the total population of R and T and the total population of U and B as per data given in the pie chart above?

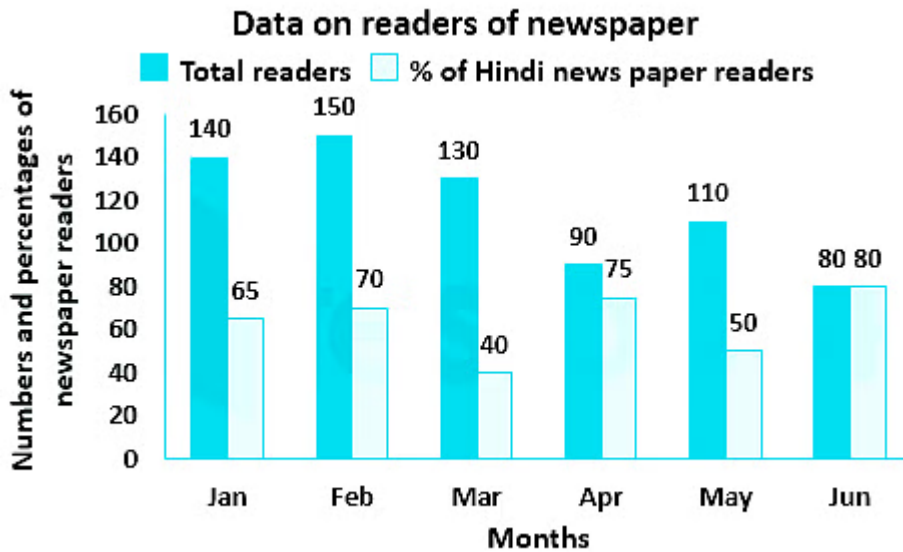
- a. 13,82,000
  - b. 15,40,000
  - c. 12,56,000
  - d. 14,75,000
- 

31. Punit goes from his home to his relative's place at a speed of 45 km/h. (+1, -0.25)  
While returning from the relative's place, due to traffic, it takes him an hour longer as he can only drive at the speed of 40 km/h. Find the distance (in km) of his relative's place from his home.

- a. 400
  - b. 720
  - c. 180
  - d. 360
- 

32. The following bar graph shows the total number of newspaper readers (in thousands) in a city during 6 consecutive months in a particular year and the respective percentages of the above-mentioned readers who read Hindi newspapers. The rest of the readers read English newspapers. (+1, -0.25)





Note: Total readers = Hindi newspaper readers + English newspaper readers

What is the difference between the number of Hindi newspaper readers during January, February and April taken together and that of English newspaper readers during March, May and June taken together?

- a. 154500
- b. 114500
- c. 176500
- d. 138700

33. The cost of building a fence around a circular field is ₹7,425 at the rate of ₹13.50 per foot. What is the area of the circular field? [Use  $\pi = \frac{22}{7}$ ] (+1, -0.25)
- a. 25018.5 ft<sup>2</sup>
  - b. 23864.4 ft<sup>2</sup>
  - c. 24644.5 ft<sup>2</sup>

d.  $24062.5 \text{ ft}^2$

---

34. In a bag, the number of ₹5 coins is 8 more than the number of ₹10 coins but 20% less than the number of ₹2 coins. If the total amount in the bag is ₹270, what is the number of ₹5 coins? (+1, -0.25)

a. 15

b. 20

c. 25

d. 18

---

35. If  $P_1$ ,  $P_2$ , and  $P_3$  are three distinct prime numbers, then what is the least common multiple of  $P_1$ ,  $P_2$ , and  $P_3$ ? (+1, -0.25)

a.  $P_1$

b.  $P_1 \times P_2 \times P_3$

c.  $P_2 \times P_3$

d.  $P_1 + P_2 + P_3$

---

36. A person goes from P to Q in 8 hours. He starts from P at 8 a.m. Another person goes from Q to P in 12 hours. He starts from Q at 9 a.m. At what time will they meet? (+1, -0.25)

a. 1:12 p.m.

b. 12:12 p.m.

---

- c. 12:20 p.m.
- d. 1:20 p.m.

37. The following table shows the numbers of chairs made of plastic and of steel in 5 different colours that were sold from a furniture showroom during a sale. (+1, -0.25)

Colour	Steel	Plastic
C1	10	12
C2	12	6
C3	8	14
C4	6	18
C5	9	11

The total number of chairs of colour C3 sold is what percentage of all the chairs of these 5 colours sold, both plastic and steel ones put together?  
[Give your answer correct to 2 decimal places.]

- a. 17.75%
- b. 20.75%
- c. 14.75%
- d. 23.75%

38. What is the average of the first 13 odd numbers? (+1, -0.25)

- a. 14

- b. 13.5
  - c. 12
  - d. 13
- 

39. Two craftsmen, A and B, are paid a total of Rs. 700 per week by their employer. If A is paid 250% of the sum paid to B, how much is A paid per week? (+1, -0.25)

- a. ₹300
  - b. ₹200
  - c. ₹500
  - d. ₹450
- 

40. Shivani purchased five pens for ₹600. She sells these five pens at the rate of ₹50 per pen. What is the approximate loss percentage that Shivani incurred on selling the five pens? (+1, -0.25)

- a. 58.33%
  - b. 48.33%
  - c. 53.33%
  - d. 61.66%
- 

41. The ratio of 45% of 80% of A to 30% of 40% of B is 15 : 4. If the average of A and B is 67.5, what is the value of A - B? (+1, -0.25)

- a. 10

- b. 18
  - c. 12
  - d. 15
- 

42. 16 boys or 12 women can do a piece of work in 28 days. In how many days will the same work be done by 4 boys and 4 women, if they all work together? (+1, -0.25)

- a. 36 days
  - b. 48 days
  - c. 44 days
  - d. 40 days
- 

43. Each side of a square is 12 cm long. The perimeter of this square is equal to the perimeter of a rectangle whose length is 16 cm. What will be the area of this rectangle? (+1, -0.25)

- a.  $128 \text{ cm}^2$
  - b.  $112 \text{ cm}^2$
  - c.  $184 \text{ cm}^2$
  - d.  $156 \text{ cm}^2$
- 

44. The cost price of 27 articles is the same as the selling price of 18 articles. What is the gain or loss percentage? (+1, -0.25)

- a. 50% gain
- b. 60% loss
- c. 30% loss
- d. 90% gain

---

45. In a bag there are coins of ₹5, ₹10 and ₹20 denominations. The total number of coins in the bag is 240. If the number of coins of ₹5, ₹10 and ₹20 denominations are in the ratio of 2 : 3 : 5, then what is the total amount of money in the bag? (+1, -0.25)

- a. ₹3,540
- b. ₹4,600
- c. ₹4,620
- d. ₹3,360

---

46. An alloy contains a mixture of two metals X and Y in the ratio of 2 : 3. The second alloy contains a mixture of the same metals, X and Y in the ratio 7 : 3. In what ratio should the first and the second alloys be mixed so as to make a new alloy containing 50% of metal X? (+1, -0.25)

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

47. 8 years ago, the average age of Rahul's family consisting of 6 members was 35 years. One year ago a new baby was born in this family. What will be the average age of the family four years hence? **(+1, -0.25)**
- a. 41 years
  - b. 37 years
  - c. 40 years
  - d. 43 years
- 

48. On a certain sum of money, the simple interest for 2 years is ₹150 at the rate of 10% per annum. What is the difference between the compound interest and the simple interest for 2 years if, in the case of compound interest, interest is compounded annually at the rate of 10% per annum. **(+1, -0.25)**
- a. ₹5
  - b. ₹10
  - c. ₹7.5
  - d. ₹12.5
- 

49. A work can be completed by 20 men in 50 days. 30 more than join them after 10 days of work. How many days will be saved in completion of the work? **(+1, -0.25)**
- a. 18 days
  - b. 20 days
  - c. 24 days



d. 28 days

---

50. The value of  $3\frac{2}{7} + 14\frac{4}{9} + 5\frac{3}{9}$  is:

(+1, -0.25)

a.  $21\frac{4}{63}$

b.  $25\frac{4}{63}$

c.  $23\frac{4}{63}$

d.  $22\frac{4}{63}$

prepp

Your Personal Exams Guide

## General English

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

A keeper or custodian of a museum

- a. Creator
- b. Developer
- c. Master
- d. Curator

52. Select the most appropriate ANTONYM of the underlined word in the given sentence. (+1, -0.25)

The list included many mundane, routine tasks.

- a. standard
- b. temporal
- c. customary
- d. exceptional

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

The smell of this flower make me felt dizzy.

- a. making I feel

- b. makes me feel
  - c. make me feeling
  - d. No improvement required
- 

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

Hurdle

- a. Progress
  - b. Impediment
  - c. Accessory
  - d. Aid
- 

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

Apart from Germany, they also visited Italy and Austria during its business trip.

- a. also visited Italy and Austria
  - b. during its business trip
  - c. Apart from Germany, they
  - d. No error.
-

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

Suspend all the employees which has been coming late.

- a. who have been coming
- b. who had came
- c. that was been coming
- d. No improvement required

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

Any award, honour or laudatory notice

- a. Complement
- b. Deal
- c. Statute
- d. Accolade

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

Thinking of talent as innate makes our world more manageable and more comfortable as it relieves a person of the \_\_\_\_\_ of expectation.

- a. blessing
- b. assistance

- c. burden
  - d. compensation
- 

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

Agitate

- a. Blame
  - b. Strike
  - c. Distress
  - d. Soothe
- 

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

But this immortality / will have purchased / at the price of / his immortal part.

- a. will have purchased
  - b. at the price of
  - c. his immortal part
  - d. But this immortality
- 

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

- a. Tendency
- b. Tendensy

- c. Tendincy
  - d. Tendancy
- 

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

As he went through the street on an \_\_\_\_\_ that morning, he saw a woman with a cat under her arm.

- a. Objection
  - b. encasement
  - c. Errand
  - d. Amendment
- 

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

Something happening in three years

- a. Annual
  - b. Triennial
  - c. Biennial
  - d. millennial
- 

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

- a. Imprudence
- b. Imprudence

- c. Imprudence
  - d. Imprudence
- 

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

We are selling a single orange \_\_\_\_\_ ₹10 but nobody is ready to buy it.

- a. on
  - b. to
  - c. with
  - d. for
- 

66. Select the most appropriate meaning of the underlined idiom in the given sentence. (+1, -0.25)

I had never seen him lose his temper, and he governed our company with an iron hand.

- a. In anxiety
  - b. At the service
  - c. To any degree
  - d. strict and harsh control
- 

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



Residents should keep an / eye out for strangers / acting suspecting in their areas

- a. eye out for strangers
- b. No error
- c. Residents should keep an
- d. acting suspecting in their areas

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

When a plastic comb is rubbed on dry hair, they acquired a static charge.

- a. it acquired a
- b. it acquires a
- c. they acquire an
- d. No improvement required

69. Select the most appropriate meaning of the underlined idiom in the given sentence. (+1, -0.25)

Come rain or shine, I will go to Paris tomorrow.

- a. At the last moment
- b. Whatever happens
- c. To decide later

d. To come before the decided time

---

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

(+1, -0.25)

Laborious

- a. Unsophisticated
  - b. Profane
  - c. Assiduous
  - d. Pompous
- 

71. Comprehension: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

(+1, -0.25)

Coca-Cola is to become the new sponsor of the London Eye after (1) \_\_\_\_\_ a deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2) \_\_\_\_\_ tourist attraction since it was introduced in 2000, when it was (3) \_\_\_\_\_ as the Millennium Wheel. It was previously (4) \_\_\_\_\_ by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) \_\_\_\_\_ a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.

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

- a. Assorting
- b. Enclosing
- c. Clearing

d. Signing

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

Coca-Cola is to become the new sponsor of the London Eye after (1) \_\_\_\_\_ a deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2) \_\_\_\_\_ tourist attraction since it was introduced in 2000, when it was (3) \_\_\_\_\_ as the Millennium Wheel. It was previously (4) \_\_\_\_\_ by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) \_\_\_\_\_ a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.

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

- a. Leading
- b. Susceptible
- c. Supportive
- d. Mandatory

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

Coca-Cola is to become the new sponsor of the London Eye after (1) \_\_\_\_\_ a deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2) \_\_\_\_\_ tourist attraction since it was introduced in 2000, when it was (3) \_\_\_\_\_ as the Millennium Wheel. It was previously (4) \_\_\_\_\_ by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) \_\_\_\_\_

\_\_\_\_\_ a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.

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

- a. Based
- b. Inscribed
- c. Published
- d. Known

---

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

Coca-Cola is to become the new sponsor of the London Eye after (1) \_\_\_\_\_ a deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2) \_\_\_\_\_ tourist attraction since it was introduced in 2000, when it was (3) \_\_\_\_\_ as the Millennium Wheel. It was previously (4) \_\_\_\_\_ by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) \_\_\_\_\_ a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.

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

- a. Sponsored
- b. Refused
- c. kept
- d. Authenticated

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

Coca-Cola is to become the new sponsor of the London Eye after (1) \_\_\_\_\_ a deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2) \_\_\_\_\_ tourist attraction since it was introduced in 2000, when it was (3) \_\_\_\_\_ as the Millennium Wheel. It was previously (4) \_\_\_\_\_ by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) \_\_\_\_\_ a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.

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

- a. Striking
- b. Discovering
- c. Forging
- d. Hedging

Your Personal Exams Guide

## General Awareness

76. Which of the following dances is popularly known as the Gotipua Dance? (+1, -0.25)
- a. Garba
  - b. Bandha Nritya
  - c. Bhangra
  - d. Lavani
- 
77. Which Article of the Indian Constitution states that 'The State shall endeavour to secure for the citizens a uniform civil code throughout the territory of India'? (+1, -0.25)
- a. Article 40
  - b. Article 42
  - c. Article 46
  - d. Article 44
- 
78. What is the total stock of money in circulation among the public at a particular point of time called? (+1, -0.25)
- a. Money order
  - b. Money supply
  - c. Short money
  - d. Money laundering

79. Who is the first Indian woman to win the Grammy Award? (+1, -0.25)

- a. Sunidhi Chauhan
- b. Lata Mangeshkar
- c. Asha Bhosle
- d. Tanvi Shah

80. How many General Elections to the Lok Sabha have been held till April 2022? (+1, -0.25)

- a. 24
- b. 13
- c. 17
- d. 10



Your Personal Exams Guide

81. Sri Lanka is separated from India by the \_\_\_\_\_ (+1, -0.25)

- a. Bering Strait
- b. Strait of Gibraltar
- c. Palk Strait
- d. Strait of Malacca

82. In which state does the Tapi river originate? (+1, -0.25)

- a. Maharashtra
  - b. Andhra Pradesh
  - c. Madhya Pradesh
  - d. Karnataka
- 

83. The Government of India initiated the comprehensive Family Planning Programme in \_\_\_\_\_ ( +1, -0.25)

- a. 1952
  - b. 1958
  - c. 1955
  - d. 1954
- 

84. Under whose captainship did India win all three major ICC trophies in white-ball cricket till 2021? ( +1, -0.25)

- a. Kapil Dev
  - b. Virat Kohli
  - c. Mahendra Singh Dhoni
  - d. Sourav Ganguly
- 

85. Gautamiputra Shri Satakarni was a ruler of which dynasty? ( +1, -0.25)

- a. Rashtrakuta



- b. Satavahana
  - c. Chola
  - d. Chera
- 

86. Who among the following was a leader of the Khilafat Movement? (+1, -0.25)

- a. Bhagat Singh
  - b. Kasturba Gandhi
  - c. Maulana Abul Kalam Azad
  - d. Jyotiba Phule
- 

87. Which of the following teams won the first edition of ISL (Indian Super League)? (+1, -0.25)

- a. Bengaluru FC
  - b. Chennaiyin FC
  - c. Atletico de Kolkata
  - d. Kerala Blasters FC
- 

88. In which state of India is the Nongkrem dance festival celebrated? (+1, -0.25)

- a. Bihar
- b. Madhya Pradesh
- c. Kerala

d. Meghalaya

---

89. In which year, did Sher Khan defeat Humayun at Kanauj? (+1, -0.25)

a. 1541

b. 1543

c. 1540

d. 1542

---

90. Which of the following diseases is caused by insulin deficiency or insulin resistance? (+1, -0.25)

a. Diabetes

b. Flu

c. Cough

d. Beri Beri

---

91. Who became the first woman Chairperson of the Securities and Exchange Board of India (SEBI) in 2022? (+1, -0.25)

a. Madhabi Puri Buch

b. Rekha Sharma

c. Chanda Kochhar

d. Gita Gopinath

---

92. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) (+1, -0.25)  
2005 provides \_\_\_\_\_ days of assured employment every year to every rural household.

- a. 100
- b. 120
- c. 150
- d. 200

93. Union Finance Minister Nirmala Sitharaman, while presenting Union (+1, -0.25)  
Budget for 2022- 23 announced a programme called 'Parvatmala'. This programme was announced to develop \_\_\_\_\_.

- a. smart houses in hilly areas
- b. ropeways in hilly areas
- c. hospitality culture in hilly areas
- d. roads in hilly areas

94. 'The Race of My Life : An Autobiography' is the autobiography of which of (+1, -0.25)  
the following persons?

- a. Dutee Chand
- b. Tintu Luka
- c. PT Usha
- d. Milkha Singh

95. The splitting of white light into its component colours is called \_\_\_\_\_. (+1, -0.25)

- a. refraction
  - b. reflection
  - c. scattering
  - d. dispersion
- 

96. After the Revolt of 1857 was put down by Britishers, which Mughal ruler was forced to leave the country? (+1, -0.25)

- a. Bahadur Shah Zafar
  - b. Farrukhsiyar
  - c. Ahmad Shah Bahadur
  - d. Muhammad Shah
- 

97. Which of the following is known as artificial silk? (+1, -0.25)

- a. Acrylic
  - b. Nylon
  - c. Polyester
  - d. Rayon
- 

98. Which of the following is a warm current? (+1, -0.25)

- a. Labrador current
  - b. Falkland current
  - c. Canary current
  - d. Gulf stream
- 

99. Which Bharatanatyam dancer became the second youngest dancer to be honoured with the 'Padma Shri' award in 1991? (+1, -0.25)

- a. Hema Malini
  - b. Narthaki Nataraj
  - c. Saroj Khan
  - d. Alarmel Valli
- 

100. Mukteshwara Temple is a 10th-century Hindu temple dedicated to Shiva, located in \_\_\_\_\_ (+1, -0.25)

- a. Assam
- b. Odisha
- c. Maharashtra
- d. Gujarat

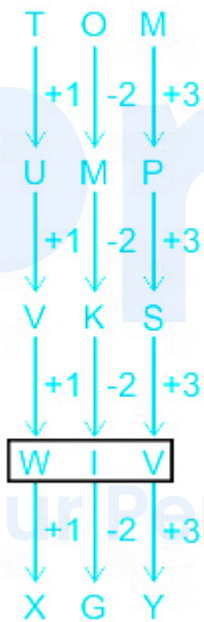
## Answers

1. 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

The logic followed here is:



So, 'WIV' will complete the series.

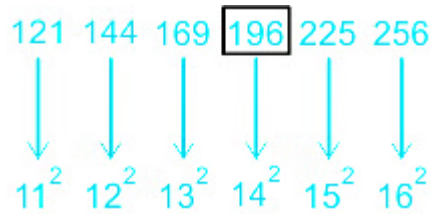
Hence the correct answer is "WIV".

2. Answer: a

Explanation:

The logic followed here is:

Given Series: 121, 144, 169, ?, 225, 256



So, '196' is the number that will replace the question mark.

Hence, the correct answer is "196".

### 3. Answer: c

#### Explanation:

The logic followed here is:

Logic: **1st number + 2 = 2nd number.**

For, 17 : 19

→  $17 + 2 = 19$ .

Now, checking the options,

Option 1) 23 : 27

→  $23 + 2 = 25 \neq 27$ .

Option 2) 43 : 53

→  $43 + 2 = 45 \neq 53$ .

Option 3) 29 : 31

→  $29 + 2 = 31 = 31$ .

Option 4) 31 : 41

→  $31 + 2 = 33 \neq 41$ .

Hence, the correct answer is "Option 3".

#### 4. Answer: d

#### Explanation:

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

The logic followed here is:

Logic: **Sum of the place value × 3.**

Now,

For, 'GANT' is coded as '126',

$$\rightarrow G(7) + A(1) + N(14) + T(20) \times 3$$

$$\Rightarrow (7 + 1 + 14 + 20) \times 3$$

$$\Rightarrow 42 \times 3 = 126.$$

For, 'PROM' is coded as '186'

$$\rightarrow P(16) + R(18) + O(15) + M(13) \times 3$$

$$\Rightarrow (16 + 18 + 15 + 13) \times 3$$

$$\Rightarrow 62 \times 3 = 186.$$

Similarly, for 'GAIL'

$$\rightarrow G(7) + A(1) + I(9) + L(12) \times 3$$

$$\Rightarrow (7 + 1 + 9 + 12) \times 3$$



$$\Rightarrow 29 \times 3 = 87.$$

So, 'GAIL' will be coded as '87'.

Hence, the correct answer is "Option 4".

## 5. Answer: c

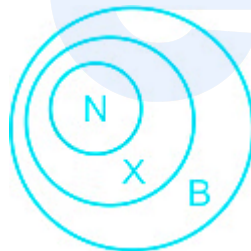
### Explanation:

Statement:

I. All X are B.

II. All N are X.

The least possible diagram for the given statements is as follows:



Conclusions:

(i) All N are B - True (All N are X and All X are B, so All N are also B).

(ii) Some B are X - True (All X are B, it also means Some part of X is B).









Here, Both conclusions I and II follow.

Hence, the correct answer is "Option 3".

## 6. Answer: c

### Explanation:

The image embedded in given figure is as shown below:

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

Hence, "Option 3" is the correct answer.

**7. Answer: b**

**Explanation:**

The positional value table is as follows:

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

The logic followed here is:

For, RL : VJ



Similarly, for AN : ?

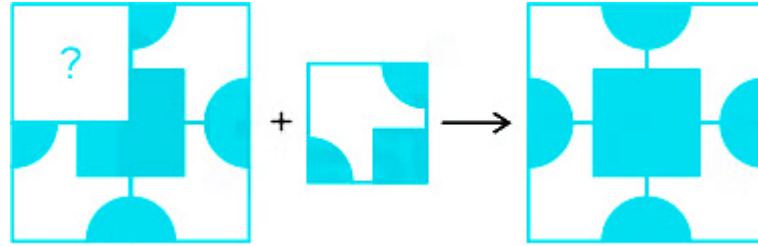


Hence, the correct answer is "EL".

8. Answer: b

Explanation:

The answer figure that will complete the pattern in the given question figure is as follows:



Hence, the correct answer is "Option 2".

9. Answer: c

Explanation:

The logic followed here is:

Step I: 1 small straight line is added in each images.



Step II: 1 small straight line are removed from each images.



So, the complete series will be:



Hence, the correct answer is "Option 3".

10. Answer: c

**Explanation:**

BODMAS Table:

<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 equation:  $3 + 9 - 6 \times 5 \div 3 = ?$

Now, if '+' and '×' and '5 and 9' are interchanged, then:

$\Rightarrow 3 \times 5 - 6 + \underline{9 \div 3} = ?$

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

$\Rightarrow \underline{15} - 6 + \underline{3} = ?$

$\Rightarrow \underline{18 - 6} = 12.$

Hence, the correct answer is "Option 3".

**11. 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

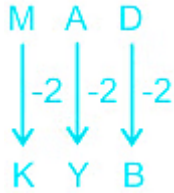
The logic followed here is:

Here,

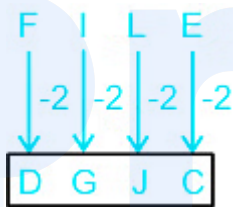
For, GAP : EYN



For, MAD : KYB



Similarly, FILE : ?



Hence, the correct answer is "DGJC".

12. Answer: b

Your Personal Exams Guide

Explanation:

BODMAS Table:

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

Given equation I:  $17 - 21 + 86 \div 2 \times 13 = 387$

Now, if '× and -' are interchanged, then:

$$\Rightarrow 17 \times 21 + \underline{86 \div 2} - 13 = 387$$

$$\Rightarrow \underline{17 \times 21} + 43 - 13 = 387$$

$$\Rightarrow \underline{357 + 43} - 13 = 387$$

$$\Rightarrow \underline{400} - 13 = 387$$

$$= 387 = 387.$$

LHS = RHS.

Given equation II:  $10 + 63 - 12 \times 259 \div 7 = 739$

Now, if '× and -' are interchanged, then:

$$\Rightarrow 10 + 63 \times 12 - \underline{259 \div 7} = 739$$

$$\Rightarrow 10 + \underline{63 \times 12} - 37 = 739$$

$$\Rightarrow \underline{10 + 756} - 37 = 739$$

$$\Rightarrow \underline{766 - 37} = 739$$

$$= 729 \neq 739$$

LHS  $\neq$  RHS.

Here, Equation II are the incorrect after interchanging the given symbol.

Hence, the correct answer is "Option 2".

13. **Answer: b**

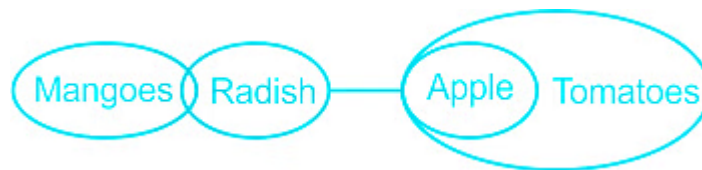
**Explanation:**

Statement:

Some mangoes are radish and no radish is an apple.

All apples are tomatoes.

The least possible diagram for the given statements is as follows:



Conclusions:

(i) All radish being tomatoes is a possibility – True (As, no direct relation give between Radish and Tomatoes, so it can be possible).

(ii) Some radishes are tomatoes – False (As, no direct relation give between Radish and Tomatoes, so it can be possible, not definite).

Here, Only I follows.

Hence, the correct answer is "Option 2".

14. Answer: d

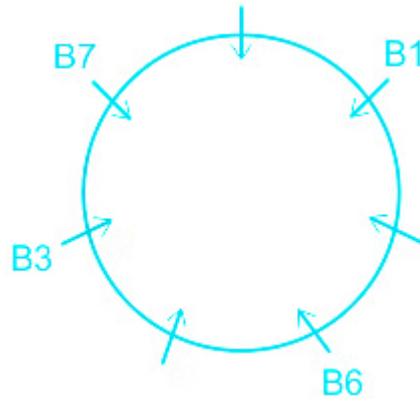
Your Personal Exams Guide

Explanation:

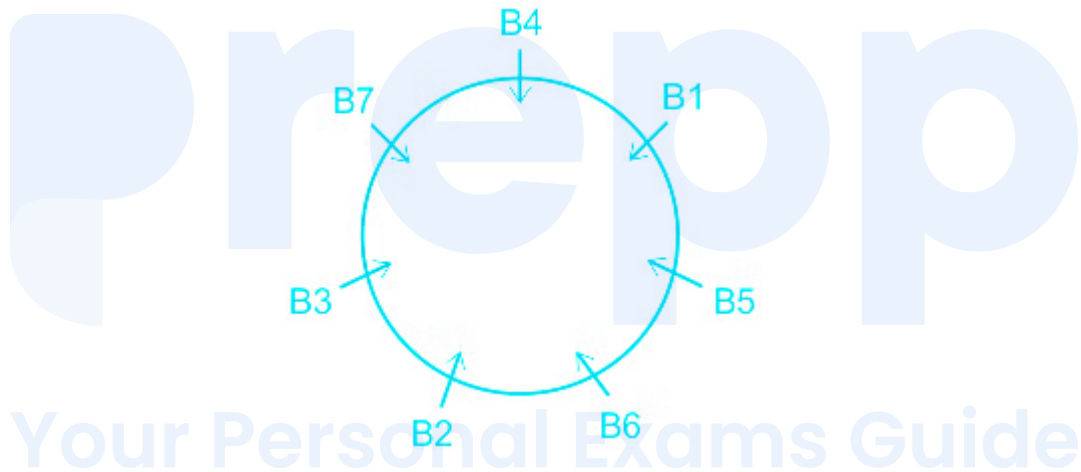
Given: Seven boys B1, B2, B3, B4, B5, B6 and B7.

- 1) B3 is second to the left of B6.
- 2) B1 is third to the left of B3.
- 3) B7 is third to the left of B6.





- 4) B4 is not the immediate neighbour of B6.
- 5) B2 is not the immediate neighbour of B1.
- 5) B5 is the immediate neighbour of B1 and B6.



Here, all the options following a pattern (Gap between one person),  
But, 'option 4' does not followed the pattern, as 'B7, B4, B1' all are the adjacent.  
Hence, the correct answer is "Option 4".

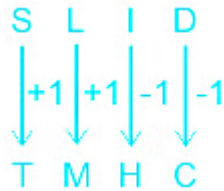
15. Answer: d

Explanation:

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

The logic followed here is:

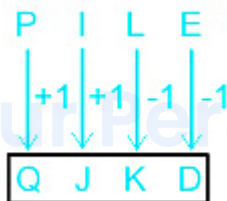
'SLID' is written as 'TMHC'



'LIST' is written as 'MJRS'



Similarly, for PILE



So, 'PILE' will be written as 'QJKD'.

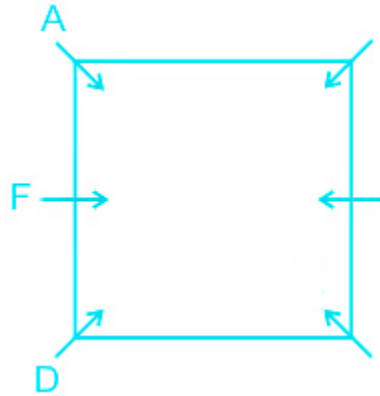
Hence, the correct answer is "QJKD".

**16. Answer: b**

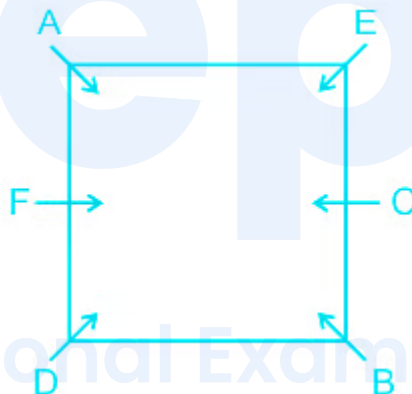
**Explanation:**

Given: 6 persons A, B, C, D, E and F are sitting around a rectangular table facing towards the centre.

- 1) F is an immediate neighbour of A and D.
- 2) F is not sitting at any of the corners.



- 3) B is an immediate neighbour of D and C.
- 4) E is an immediate neighbour of A and C.



Here, the pairs 'FC' represents the persons that are sitting exactly opposite to each other.

Hence, the correct answer is "Option 2".

**17. Answer: b**

**Explanation:**

Given: Seven friends A, B, C, D, E, F and G have a different number of bikes.

1) Four persons have more bikes than C.

2) E has the least and D has the third highest number of bikes.

\_\_ > \_\_ > D > \_\_ > C > \_\_ > E

3) D has more bikes than F, but less bikes than G.

4) B has less bikes than G.

Case I:  $G > B > D > \_ > C > F > E$

Case II:  $G > \_ > D > B > C > F > E$

5) F has less bikes than A, and A does not have the highest number of bikes.

Case I:  $G > B > D > A > C > F > E$

Case II:  $G > A > D > B > C > F > E$

So, from both cases 'G' has the highest number of bikes.

Hence, the correct answer is "G".

18. Answer: d

Explanation:

The logic followed here is:

Logic:  $1st\ number \times (1st\ number \div 2) = 2nd\ number.$

Here,

For,  $8 : 32$

$\rightarrow 8 \times (8 \div 2)$

$\Rightarrow 8 \times 4 = 32.$

For, 12 : 72

$$\rightarrow 12 \times (12 \div 2)$$

$$\Rightarrow 12 \times 6 = 72.$$

Similarly, for 18 : ?

$$\rightarrow 18 \times (18 \div 2)$$

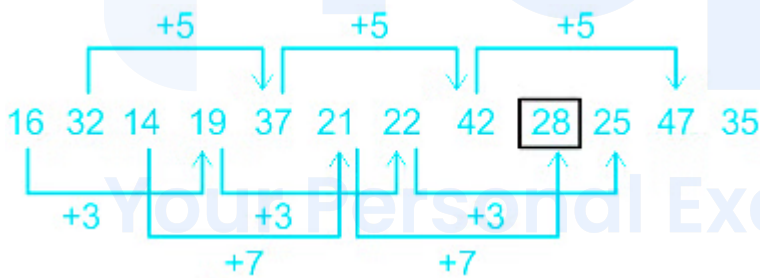
$$\Rightarrow 18 \times 9 = 162.$$

Hence, the correct answer is "Option 4".

19. Answer: d

Explanation:

The logic followed here is:

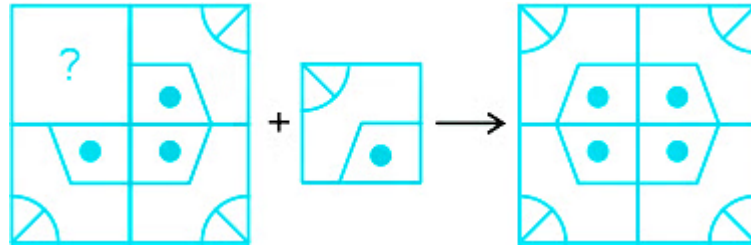


Hence, the correct answer is "Option 4".

20. Answer: c

Explanation:

The answer figure that will complete the pattern in the given question figure is as follows:



Hence, the correct answer is "Option 3".

21. Answer: d

Explanation:

Given:

'693' means 'Neha likes cakes',

'135' means 'cakes are sweet',

'254' means 'we are girls',

6 9 3 → Neha likes cakes

1 3 5 → Cakes are sweet

2 5 4 → We are girls

So, '3' will be coded as 'Cakes'.

And, '5' will be coded as 'are'.

And, '1' will be coded as 'sweet'.

So, 'Sweet' will be coded as '1'.

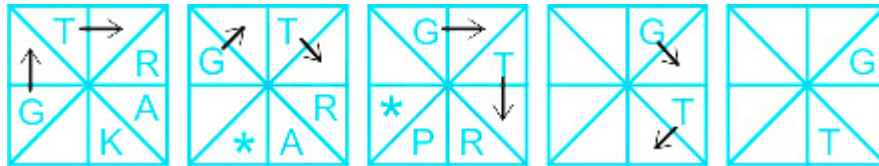
Hence, the correct answer is "Option 4".

22. Answer: d

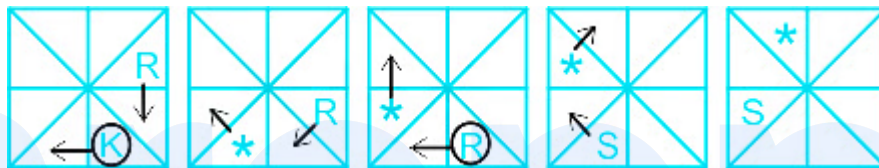
**Explanation:**

The logic followed here is:

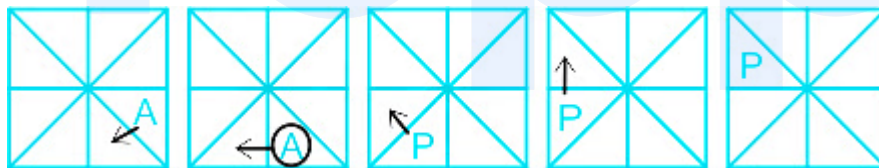
Step I: The letter G and T is shifted its place to next place.



Step II: The letter R and K is shifted its place to next place and at the circle point the letters are getting changed.



Step III: The letter A is shifted its place to next place and at the circle point the letter A are changed to P.



So, the series will be:



Hence, the correct answer is "Option 4".

23. 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

The logic followed here is:

Logic: **Alphabets is coded as their place value.**

Now,

'GRAY' is coded as '718125',

Letter	G	R	A	Y
Coded as	7	18	1	25

'FOMK' is coded as '6151311'

Letter	F	O	M	K
Coded as	6	15	13	11

Similarly, for 'CBHL'

Letter	C	B	H	L
Coded as	3	2	8	12

So, 'CBHL' will be coded as '32812'.

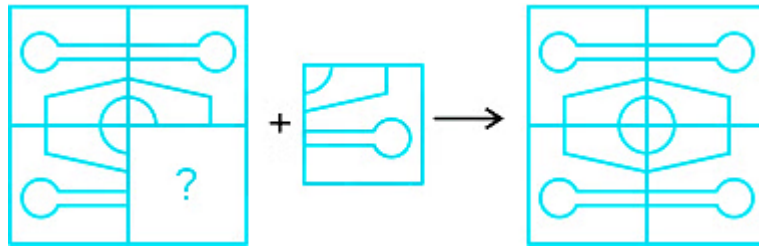
Hence, the correct answer is **"Option 2"**.

24. **Answer: b**

**Explanation:**



The answer figure that will complete the pattern in the given question figure is as follows:



Hence, the correct answer is "Option 2".

**25. Answer: c**

**Explanation:**

The logic followed here is:

Logic: **First word is the cause or stimulus of the Second word.**

Here,

For, Water : Thirst

→ Water causes thirst.

For, Food : Hunger

→ Food causes hunger.

Similarly, **Rest : ?**

→ **Exhaustion causes Rest.**

Hence, the correct answer is "Option 3".

**26. Answer: c**

## Explanation:

### Given:

Principal borrowed by A from B = ₹3,600

Rate of interest charged by B on loan = 20% per year (simple interest)

Time for which A borrowed from B = 2 years

A lent 75% of the borrowed amount to C at a rate of 20% per year (compound interest) for 2 years

A used the remaining amount for personal purposes

### Formula used:

$$\text{Simple Interest (SI)} = P \times R \times T / 100$$

$$\text{Compound Interest (CI)} = P \times [ (1 + R/100)^T - 1 ]$$

$$\text{Total interest} = \text{CI} - \text{SI}$$

Where,

P = principal amount

R = rate of interest per annum

T = time in years

### Solution:

$$\text{Simple interest on loan from B} = P \times R \times T / 100$$

$$= 3600 \times 20 \times 2 / 100$$

$$= ₹1,440$$

$$\text{Amount lent to C} = 75\% \text{ of } ₹3,600 = ₹2,700$$

$$\text{Compound interest on amount lent to C} = P \times \left[ \left(1 + \frac{R}{100}\right)^T - 1 \right]$$

$$= 2700 \times \left[ \left(1 + \frac{20}{100}\right)^2 - 1 \right]$$

$$= 2700 \times \frac{11}{25}$$

$$= 1188$$

Total loss incurred By A = 1440 - 1188 + amount for his personal Purpose.

$$= 1440 - 1188 + 25\% \text{ of } 3600$$

$$= 1440 - 1188 + 900$$

$$= 1152$$

∴ Option 3 is the correct answer.

---

27. Answer: c

Explanation:

Given

$$(1 \div 23) \text{ of } [2\{3 + 4(35 \div 7)\}] = y$$

Concept used:

Follow the BODMAS rule according to the table given below:

<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 (-)

$$\Rightarrow (1 \div 23) \text{ of } [2\{3 + 4(35 \div 7)\}] = y$$

$$\Rightarrow (1 \div 23) \text{ of } [2\{3 + 4(5)\}] = y$$

$$\Rightarrow (1 \div 23) \text{ of } [46] = y$$

$$\Rightarrow y = 2$$

∴ Option 3 is the correct answer.

28. Answer: b

Explanation:

Given:

The marked price of one pen: ₹x

Discount is given: 15%

Selling price of one packet of 'x' pens after discount: ₹1,360

Formula:

Selling price = Marked price - Discount

Discount = Marked price x Discount rate

**Calculation:**

Let's assume that the MRP of one packet of x pen is y.

$$y \text{ of } 85\% = 1360$$

$$y = 16 \times 100$$

$$y = 1600$$

The marked Price of one Pen is x.

MRP of one packet of 'x' pens = marked price of one pen  $\times$  number of pens in one packet.

$$\Rightarrow y = x \times x$$

$$\Rightarrow y = x^2$$

$$\Rightarrow x^2 = 1600$$

$$\Rightarrow x = 40$$

$\therefore$  Option 2 is the correct answer.

29. **Answer: b**

**Explanation:**

**Given:**

The slant height of the cone = 11 cm

The radius of the cone = 6 cm

**Formula:**

The curved surface area of a cone =  $\pi r l$ , where r is the radius and l is the slant height of the cone.

Calculation:

$$\text{Curved surface area} = \pi r l$$

$$\Rightarrow \pi \times 6 \times 11$$

$$\Rightarrow 66\pi$$

Therefore, the curved surface area of the cone is  $66 \pi \text{ cm}^2$

---

30. Answer: d

Explanation:

Calculation:

$$\text{Total Population of R and T} = 3350000 + 1500000 = 4850000$$

$$\text{Total Population of U and B} = 1500000 + 1875000 = 3375000$$

$$\text{The difference is } 4850000 - 3375000 = 1475000$$

$\therefore$  Option 4 is the correct answer.

Your Personal Exams Guide

---

31. Answer: d

Explanation:

Given:

$$\text{Speed while going} = 45 \text{ km/h}$$

$$\text{Speed while returning} = 40 \text{ km/h}$$

$$\text{Time is taken while returning} - \text{Time taken while going} = 1 \text{ hour}$$

Formula:

Distance = Speed x Time (when speed and time are constant)

**Calculation:**

Let's assume the distance between Punit's home and his relative's place to be 'd' km.

Then, the time taken while going would be:

$$\text{Time} = \text{Distance} / \text{Speed} = d / 45$$

While returning, the time taken would be:

$$\text{Time} = \text{Distance} / \text{Speed} = d / 40$$

As given, the time taken while returning is 1 hour more than the time taken while going:

$$d / 40 - d / 45 = 1$$

Simplifying the above equation, we get:

$$d = 360 \text{ km}$$

Therefore, the distance of Punit's relative's place from his home is 360 km.

---

32. **Answer: b**

## Your Personal Exams Guide

**Explanation:**

**Calculation:**

Total Hindi newspaper readers during January, February and April taken together =

$$\frac{65}{100} \times 140 + \frac{70}{100} \times 150 + \frac{90}{100} \times 75$$

$$\Rightarrow (13 \times 7 + 7 \times 15 + 3 \times 45/2)$$

$$\Rightarrow 91 + 105 + 67.5$$

$$\Rightarrow 263.5$$

Total English newspaper readers during March, May and June taken together = (

$$\frac{60}{100} \times 130 + \frac{50}{100} \times 110 + \frac{20}{100} \times 80$$

$$\Rightarrow (6 \times 13 + 5 \times 11 + 2 \times 8)$$

$$\Rightarrow 78 + 55 + 16$$

$$\Rightarrow 149$$

Difference between the number of Hindi newspaper readers during January, February and April taken together and that of English newspaper readers during March, May and June taken together =  $[263.5 - 149] \times 1000$

$$\Rightarrow 114.5 \times 1000$$

$$\Rightarrow 114500$$

$\therefore$  Option 2 is the correct answer.

---

33. Answer: d

**Explanation:**

Given

The cost of building a fence around a circular field is ₹7,425 at the rate of ₹13.50 per foot.

**Formula used:**

The area of the circular field =  $\pi r^2$

The circumference of the circular field =  $2\pi r$

**Calculation:**

Let the radius of the circular field be 'r' feet.

The circumference of the circular field =  $2\pi r$  feet.



The cost of building a fence at the rate of ₹13.50 per foot = ₹7,425.

Therefore,  $2\pi r \times 13.50 = 7,425$ .

$\Rightarrow 2\pi r = 7425/13.50 = 550$ .

$\Rightarrow \pi r = 275$ .

$\Rightarrow r = 275/\pi$ .

Now, the area of the circular field =  $\pi r^2$ .

$\Rightarrow \pi(275/\pi)^2$

$\Rightarrow \pi(275^2/\pi^2)$ .

$\Rightarrow 275^2/\pi$ .

$\Rightarrow (275 \times 275 \times 7)/22$

$\Rightarrow 24062.5$

Therefore, the area of the circular field is approximately 24,062.5 square feet.

#### 34. Answer: b

##### Explanation:

Given:

The number of ₹5 coins is 8 more than the number of ₹10 coins.

The number of ₹5 coins is 20% less than the number of ₹2 coins

Calculation:

Let's assume the number of ₹2, ₹5 and ₹10 coins are 'a', 'b' and 'c' respectively.

In a bag, the number of ₹5 coins is 8 more than the number on ₹10 coins but 20% less than the number of ₹2 coins. .

$$\Rightarrow b = c + 8$$

$$\Rightarrow c = (b - 8)$$

$$\Rightarrow b = (100 - 20)\% \text{ of } a$$

$$\Rightarrow b = 80\% \text{ of } a.$$

$$\Rightarrow b = 0.8a$$

$$\Rightarrow a = b / 0.8$$

The total amount in the bag is ₹270. We can write this as:

$$\Rightarrow 2a + 5b + 10c = ₹270$$

Put the value of a and c from above equations.

$$\Rightarrow 2 \times b / 0.8 + 5b + 10 \times (b - 8) = 270$$

$$\Rightarrow 2.5b + 5b + 10b - 80 = 270$$

$$\Rightarrow 17.5b = 350$$

$$\Rightarrow b = 20$$

Therefore, the number of ₹5 coins is 20.

∴ Option 2 is the correct answer.

---

**35. Answer: b**

**Explanation:**

**Calculation:**

The least common multiple (LCM) of three distinct prime numbers, P1, P2, and P3, is simply their product,  $P1 \times P2 \times P3$ .

To see why, we can use the fact that the LCM of any set of numbers is the smallest positive integer that is divisible by all the numbers in the set. Since  $P_1$ ,  $P_2$ , and  $P_3$  are prime numbers, their only positive divisors are 1 and themselves. Therefore, any positive integer that is divisible by all three primes must be a multiple of their product,  $P_1 \times P_2 \times P_3$ .

Furthermore, since  $P_1$ ,  $P_2$ , and  $P_3$  are distinct primes, their product is not divisible by any other prime number. Therefore,  $P_1 \times P_2 \times P_3$  is the smallest positive integer that is divisible by all three primes, and hence it is their LCM.

$\therefore$  Option 2 is the correct answer.

---

### 36. Answer: a

#### Explanation:

##### Calculation:

The LCM of 8 and 12 is 24 which can be assumed as the total distance between P and Q.

Speed of first person =  $24/8 = 3$  km/h

Speed of first-person =  $24/12 = 2$  km/h

First person started one hour earlier than the second person. So the distance covered by the first person in that first hour is 3 km.

Remaining distance =  $24 - 3 = 21$

Time taken by both of them to meet each other =  $21/(3+2) = 21/5 = 4.2$  hr

So the time when they will meet each other =  $9 + 4.2$

9 hr + 4 hr + 12 minutes

1 : 12 p.m.

$\therefore$  Option 1 is the correct answer.

37. Answer: b

**Explanation:**

**Calculation:**

According to the question:

The total number of chairs of color C3 =  $8 + 14 = 22$

The total number of chairs in these 5 colors sold, both plastic and steel ones =  $10 + 12 + 8 + 6 + 9 + 12 + 6 + 14 + 18 + 11 = 106$

Percentage of C3 =  $22/106 \times 100 = 20.75\%$ .

$\therefore$  Option 2 is the correct answer.

---

38. Answer: d

**Explanation:**

Given: Your Personal Exams Guide

First 13 odd natural numbers.

**Formula used:**

The sum of the first 'n' odd natural numbers =  $n^2$

Average = sum of all observation/Total number of observation

**Calculations:**

The sum of the first '13' odd natural numbers =  $(13)^2$

$\Rightarrow 169$

$$\Rightarrow \text{Average} = 169/13 = 13$$

$\therefore$  The average of the first '13' odd natural is 13.

---

39. Answer: c

Explanation:

Given:

A + B total money per week = Rs. 700

A's money = 250% of B's Money

Calculation:

Total paid of A and B = 700

$$\therefore 250\% = 5/2$$

Let the sum paid to B be  $2x$ .

$$\text{Sum paid of A} = 2x \times (5/2) = 5x$$

$$2x + 5x = 700$$

$$\Rightarrow 7x = 700$$

$$\Rightarrow x = 100$$

$$\text{Sum paid to A} = 5 \times 100 = 500$$

$\therefore$  The correct answer is Rs.500.  $\therefore$  Option 3 is the correct answer.

---

40. Answer: a

Explanation:

**Given:**

Shivani purchased five pens for ₹600

She sells these five pens at the rate of ₹50 per pen

**Formula used:**

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

$$\text{Loss \%} = (\text{Loss}/\text{CP}) \times 100$$

Here, SP → Selling price, CP → Cost price

**Calculation:**

$$\text{CP of five pens} = \text{Rs. } 600$$

$$\text{CP of 1 pen} = 600/5 = \text{Rs. } 120$$

$$\text{SP of 1 pen} = \text{Rs. } 50$$

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

$$\Rightarrow 120 - 50 = 70$$

$$\text{Loss \%} = (\text{Loss}/\text{CP}) \times 100$$

$$\Rightarrow 70/120 \times 100$$

$$\Rightarrow 7/3 \times 25$$

$$\Rightarrow 175/3 = 58.33\%$$

$$\text{Loss percentage} = 58.33\%$$

∴ Option 1 is the correct answer.

41. Answer: d

### Explanation:

Given:

The ratio of 45% of 80% of A to 30% of 40% of B is 15 : 4.

The average of A and B is 67.5.

Calculation:

According to question,

$$\frac{\frac{45}{100} \times \frac{80}{100} \times A}{\frac{30}{100} \times \frac{40}{100} \times B} = \frac{15}{4}$$

$$\Rightarrow \frac{3A}{B} = \frac{15}{4}$$

$$\Rightarrow \frac{A}{B} = \frac{5}{4}$$

$$\text{Sum of A and B} = 67.5 \times 2 = 135$$

$$\Rightarrow 5x + 4x = 135$$

$$\Rightarrow 9x = 135$$

$$\Rightarrow x = 15$$

$$\Rightarrow A - B = 5x - 4x = x = 15$$

$\therefore$  Option 4 is the correct answer.

---

### 42. Answer: b

### Explanation:

Calculation:

Let the work to be done be 1 unit.

It is given that 16 boys or 12 women can do the work in 28 days.

Therefore, 1 boy's 1 day of work =  $1/(16 \times 28) = 1/448$ .

And, 1 woman's 1 day work =  $1/(12 \times 28) = 1/336$ .

Let 'd' be the number of days required for 4 boys and 4 women to complete the work.

The work done by 4 boys and 4 women in one day =  $4 \times (1/448) + 4 \times (1/336) = 1/56$ .

Therefore, the work done by 4 boys and 4 women in 'd' days =  $d \times (1/56)$ .

As the work done is the same, we have:

$$(16 \times 28)(1/448) = (12 \times 28)(1/336) = d \times (1/56).$$

Simplifying, we get:

$$d = 48 \text{ days.}$$

Therefore, the required number of days for 4 boys and 4 women to complete the work together is 48 days.

---

**43. Answer: a**

**Explanation:**

**Given:**

Side of a square = 12 cm

Length of the rectangle = 16 cm

**Formula used:**

Perimeter of rectangle =  $2 \times (\text{length} + \text{width})$

Area of rectangle = length  $\times$  width

Perimeter of the square =  $4 \times \text{side}$



**Calculation:**

Perimeter of the square =  $4 \times \text{side} = 4 \times 12 = 48 \text{ cm}$

The perimeter of a rectangle = 48 cm (since it is equal to the perimeter of the square)

Let's assume the width of the rectangle to be 'w'. Therefore, the perimeter of the rectangle can be written as:

Perimeter of rectangle =  $2 \times (\text{length} + \text{width})$

$$48 = 2 \times (16 + w)$$

Simplifying the above equation, we get:

$$24 = 16 + w$$

$$w = 24 - 16 = 8$$

Therefore, the width of the rectangle is 8 cm.

The area of the rectangle can be calculated as:

Area of rectangle = length  $\times$  width

Area of rectangle = 16 cm  $\times$  8 cm

$$\text{Area of rectangle} = 128 \text{ cm}^2$$

Therefore, the area of the rectangle is  $128 \text{ cm}^2$

---

**44. Answer: a**

**Explanation:**

**Given:**

The cost price of 27 articles is the same as the selling price of 18 articles.

**Formula used:**

$$\text{Profit Percentage} = [(S - C)/C] \times 100$$

Where the cost price of each article is 'C' and the selling price of each article is 'S'.

**Calculation:**

Let the cost price of each article be 'C' and the selling price of each article be 'S'.

The cost price of 27 articles = 27C.

The selling price of 18 articles = 18S.

As per the given information, 27C = 18S.

$$\Rightarrow C = 18S/27.$$

$$\Rightarrow C = 2S/3.$$

The profit or loss percentage is given by the formula:

$$\text{Profit or Loss Percentage} = [(Selling Price - Cost Price) / Cost Price] \times 100$$

Since the cost price of 27 articles is equal to the selling price of 18 articles, the profit percentage can be calculated as follows:

$$\text{Profit Percentage} = [(S - C)/C] \times 100$$

Substituting the value of C, we get:

$$\text{Profit Percentage} = [(S - (2S/3))/(2S/3)] \times 100$$

Simplifying, we get:

$$\text{Profit Percentage} = [(S/3)/(2S/3)] \times 100$$

$$\text{Profit Percentage} = (1/2) \times 100$$

$$\text{Profit Percentage} = 50\%$$

Therefore, the gain or profit percentage is 50%.

45. Answer: d

**Explanation:**

Calculation:

Let, the number of ₹5, ₹10, and ₹20 denominations in the bag are  $2x$ ,  $3x$ , and  $5x$ .

Given, The Total number of coins is 240.

Hence,

$$\Rightarrow 2x + 3x + 5x = 240$$

$$\Rightarrow x = 24$$

So the number of coins of ₹5, ₹10, and ₹20 denominations are 48, 72, and 120.

The total amount will be given by:

$$\Rightarrow 48 \times 5 + 72 \times 10 + 120 \times 20$$

$$\Rightarrow 240 + 720 + 2400$$

$$\Rightarrow 3360$$

$\therefore$  Option 4 is the correct answer.

---

46. Answer: d

**Explanation:**

Given:

An alloy contains a mixture of two metals X and Y in the ratio of 2 : 3

The second alloy contains a mixture of the same metals, X and Y in the ratio 7 : 3.

**Calculation:**

Let the quantity of the first mixture be  $x$  and the second mixture be  $y$ .

Quantity of metal X in the first mixture =  $2x/5$

Quantity of metal X in the second mixture =  $7y/10$

Quantity of mixture in resultant mixture =  $(1/2) \times (x + y)$

Then,  $2x/5 + 7y/10 = (1/2) \times (x + y)$

$2x/5 - 1/2x = 1/2y - 7y/10$

$(4 - 5)x/10 = (5 - 7)y/10$

$-x/10 = -2y/10$

$x/y = 2/1$

Then,  $x : y = 2 : 1$

$\therefore$  Option 4 is the correct answer.

**47. Answer: a**

**Explanation:**

**Given:**

8 years ago, the average age of Rahul's family consisting of 6 members was 35 years.

One year ago a new baby was born in this family.

**Concept Used:**

Average = Sum of observations / Total number of observations

**Calculation:**

8 years ago, the average age of Rahul's family consisting of 6 members was 35 years.

$$\text{Total of 6 members 8 year ago} = 35 \times 6 = 210$$

One year ago a new baby was born in this family.

$$\text{Total of 6 members age at the time of baby born} = 210 + 6 \times 7$$

$$\Rightarrow 252$$

$$\text{Present age of 6 members and baby} = 252 + 7 = 259$$

$$\text{Age of the family four years hence} = 259 + 4 \times 7$$

$$\Rightarrow 287$$

$$\text{Average age of the family four years hence} = 287/7 = 41 \text{ years.}$$

∴ Option 1 is the correct answer.

---

**48. Answer: c**

**Explanation:**

**Given:**

Simple interest for 2 years = ₹150

Rate of interest = 10% per annum

**Concept Used:**

$$\text{Simple Interest} = (P \times R \times T)/100$$

where, P is the principal amount, R is the rate of interest, and T is the time period.

$$\text{Compound Interest} = P \times (1 + R/100)^{AT} - P$$

where, P is the principal amount, R is the rate of interest, and T is the time period.

**Calculation:**

Let the principal amount be P.

Given, Simple Interest for 2 years = ₹150 and Rate of interest = 10% per annum.

$$\text{Simple Interest} = (P \times R \times T)/100$$

$$150 = (P \times 10 \times 2)/100$$

$$\Rightarrow 150 = (P \times 20)/100$$

$$\Rightarrow P = (150 \times 100)/20 = ₹750$$

$$\text{Compound Interest} = P \times (1 + R/100)^{AT} - P$$

$$\Rightarrow ₹750 \times (1 + 10/100)^2 - ₹750$$

$$\Rightarrow ₹750 \times (1.1)^2 - ₹750$$

$$\Rightarrow ₹750 \times 1.21 - ₹750$$

$$\Rightarrow ₹907.50 - ₹750$$

$$\Rightarrow ₹157.50$$

$$\text{Difference} = \text{Compound Interest} - \text{Simple Interest}$$

$$= ₹157.50 - ₹150$$

$$= ₹7.50$$

∴ Option 3 is the correct answer.

## Your Personal Exams Guide

### 49. Answer: c

#### Explanation:

Given,

20 men can finish a work = 50 days

**Formula:**

Total work = Efficiency × Time

$$M1 \times D1 = M2 \times D2$$

**Calculation:**

Let the number of days taken after the increment of 30 people be  $x$ .

According to the question

$$\text{Total work} = 50 \times 20$$

$$50 \times 20 = 20 \times 10 + 50 \times x$$

$$\Rightarrow 50 \times x = 800$$

$$\Rightarrow x = 16$$

$$\text{Total time taken is } 10 + 16 = 26$$

$$\text{Number of days saved} = 50 - 26 = 24$$

$\therefore$  Option 3 is the correct answer.

---

50. Answer: c

Explanation:

Calculation:

$$3\frac{2}{7} + 14\frac{4}{9} + 5\frac{3}{9}$$

$$\Rightarrow 3 + 14 + 5 + \frac{2}{7} + \frac{4}{9} + \frac{3}{9}$$

$$\Rightarrow 22 + \frac{18+28+21}{63}$$

$$\Rightarrow 22 + 67/63$$

$$\Rightarrow 22 + 1 + 4/63$$

$$\Rightarrow 23 + 4/63$$

$$\Rightarrow 23\frac{4}{63}$$

$\therefore$  Option 3 is the correct answer.

51. Answer: d

**Explanation:**

Here the correct answer is **Curator**.

★ Key Points

- The option that can be used as a one-word substitute for the given group of words is "**Curator**" (Option 4).
- A **curator** is a person who is responsible for the care, management, and presentation of a museum, art gallery, or other collection. The curator's job includes selecting, organizing, and interpreting the objects in the collection and presenting them to the public.
  - For example: The museum **curator** gave us a guided tour of the exhibition.
- Therefore, "**curator**" is the most appropriate one-word substitute for the given group of words.

★ Additional Information

- Explanation of other options:
- **Creator (Option 1)** refers to someone who brings something into existence. While a museum curator may contribute to the creation of exhibits, it is not their primary role.
- **Developer (Option 2)** refers to someone who builds or creates something new. This term is not commonly used to describe the role of a museum curator.
- **Master (Option 3)** has several different meanings, but none of them accurately describes the role of a museum curator. A master can be an expert or skilled practitioner in a particular field or a person who has authority over others, but neither of these definitions accurately captures the role of a museum curator.

---

52. Answer: d

**Explanation:**



Here the correct answer is **Exceptional**.

★ Key Points

- The most appropriate antonym of the underlined word "**mundane**" in the given sentence is "**exceptional**" (Option 4).
- **Mundane** means "**lacking interest or excitement; dull; of this earthly world rather than a heavenly or spiritual one.**" In the given sentence, mundane is used to describe routine tasks that are uninteresting or boring. (साधारण)
  - For example: I'm tired of doing **mundane** tasks like washing dishes and folding laundry.
- **Exceptional**, on the other hand, means "**unusual, rare, or outstanding; unusually good or impressive.**" (असाधारण)
  - For example: She gave an **exceptional** performance in the play.
- Therefore, "**exceptional**" is the most appropriate antonym of the underlined word in the given sentence.

★ Additional Information

- Explanation of other options:
- **Standard (Option 1)** means "a level of quality or attainment." It is not an antonym of mundane. (सामान्य, मानक)
- **Temporal (Option 2)** means "relating to worldly as opposed to spiritual affairs; secular." It is not an antonym of mundane. (अस्थायी, सांसारिक)
- **Customary (Option 3)** means "according to or depending on custom; usual." It is not an antonym of mundane. (व्यावहारिक, प्रचलित)

53. Answer: b

**Explanation:**

Here the correct answer is **Makes me feel**.

★ Key Points

- The option that will improve the underlined part of the sentence is 2) "makes me feel".
- The underlined part of the sentence "make me felt" is incorrect because it is not grammatically correct.
- The verb "make" should be in the **present tense** because it is referring to a present action.
- The correct verb tense to use here is "makes", which is the **third person singular present tense form of the verb**.
- Thus, the correct answer is **Option 2**.

Therefore, the correct sentence would be: "The smell of this flower makes me feel dizzy."

★ Additional Information

- **Option 1, "making I feel"**, is incorrect because the subject pronoun "I" should come before the present participle "feeling". Also, using "making" instead of "makes" makes the sentence tense incorrect.
- **Option 3, "make me feeling"**, is incorrect because the gerund "feeling" is not the correct form of the verb to use here.
- **Option 4, "No improvement required"**, is incorrect because there is an error in the underlined part of the sentence.

---

Your Personal Exams Guide

54. Answer: b

**Explanation:**

Here the correct answer is **Impediment**.

★ Key Points

- The most appropriate synonym of the given word "hurdle" is 2) "impediment".
- **Hurdle** means **an obstacle or difficulty that needs to be overcome in order to achieve something.** (बाधा)
  - For example: She faced several **hurdles** on her way to becoming a doctor.

- **Impediment** also means **an obstacle or hindrance that prevents something from happening or progressing smoothly.** (बाधा, अवरोध)
  - For example: The lack of funding proved to be a major **impediment** to the project's success.
- Therefore, **option 2** is the most appropriate synonym of the given word.

★ **Additional Information**

- Explanation of other options:
- **Progress (Option 1)** means forward or onward movement towards a destination or goal. It is not a synonym of hurdle. (प्रगति)
- **Accessory (Option 3)** means an additional item that enhances or complements something else. It is not a synonym of hurdle. (सहायक)
- **Aid (Option 4)** means assistance or support that is given to help someone or something. It is not a synonym of hurdle. (सहायता)

55. Answer: b

**Explanation:**

Here the correct answer is **During its business trip.**

★ **Key Points**

- The part containing the error is **option 2, "during its business trip."**
- This part is incorrect because **"its"** is not the appropriate pronoun to refer to the people who went on the business trip.
- The correct pronoun to use is **"their,"** as it refers to **a group of people.**
- This sentence correctly uses "their" to refer to the group of people who went on the business trip.
- Thus, the correct answer is **Option 2.**

**The correct sentence should be:** *Apart from Germany, they also visited Italy and Austria during their business trip.*

56. Answer: a

Explanation:

The correct answer is "who have been coming."

★ Key Points

- The underlined part of the sentence contains an error in subject-verb agreement.
- "Employees" is a plural noun, so the helping verb should also be plural i.e. 'have'.
- In this case, "who" is used instead of "which" because "employees" refers to people, and "who" is used to refer to people while "which" is used to refer to things or animals.
- Thus, the correct answer is **Option 1**.

The correct sentence would be: "Suspend all the employees who have been coming late."

57. Answer: d

Explanation:

Here the correct answer is **Accolade**.

★ Key Points

- **Accolade** refers to any award, honour, or laudatory notice given as an expression of recognition or gratitude.
- **Examples:**
  - The actor received a prestigious **accolade** for his performance in the film.
  - The musician was awarded several **accolades** for her latest album.
- Thus, the correct answer is **Option 4**.

★ Additional Information

- Here are explanations for all the options:
- **Complement** – This refers to something that completes or adds to something else to make it whole or perfect.
  - For example, "The red tie **complements** his black suit."
- **Deal** – This can have a few different meanings, but one definition is a particular way of handling or approaching a situation.
  - For example, "We need to come up with a **deal** that works for both parties."
- **Statute** – This refers to a written law passed by a legislative body.
  - For example, "The new **statute** prohibits smoking in public places."

58. Answer: c

Explanation:

Here the correct answer is **Burden**.

★ Key Points

- In the context of the sentence, the phrase "**relieves a person of the \_\_\_\_\_ of expectation**" suggests that something is being removed or alleviated.
- The word "**burden**" means **a heavy load or responsibility**, so it fits well in this context.
  - Example: The **burden** of caring for her sick mother fell on her shoulders.
- **Option 1, "blessing,"** doesn't fit as it implies something positive or beneficial, which is the opposite of what is being described in the sentence.
- **Option 2, "assistance,"** doesn't fit as it implies that something is being provided to help alleviate the burden, rather than the burden itself being removed.
- **Option 4, "compensation,"** doesn't fit as it implies that something is being given in return for the burden, rather than the burden itself being removed.
- Thus, the correct answer is **Option 3**.

**Correct Sentence:** *Thinking of talent as innate makes our world more manageable and more comfortable as it relieves a person of the **burden** of expectation.*

59. Answer: d

**Explanation:**

Here the correct answer is **Soothe**.

★ Key Points

- The correct answer is **4) Soothe**.
- **Agitate** means **to make someone feel anxious or troubled**, whereas **soothe** means **to calm or relieve someone's anxiety or distress**.
- Therefore, the antonym of **agitate** is **soothe**.
- **Examples:**
  - The loud noise from the construction site **agitated** the neighbors.
  - The mother tried to **soothe** her crying baby by rocking him gently.
- Thus, the correct answer is **Option 4**.

★ Additional Information

- **Option 1) Blame** - This is not an antonym of agitate. Blame means to hold someone responsible for something, which is not related to the meaning of agitate.
- **Option 2) Strike** - This is not an antonym of agitate. Strike means to hit or collide with force, which is not related to the meaning of agitate.
- **Option 3) Distress** - This is not an antonym of agitate. Distress means to cause someone to feel worried or upset, which is similar to the meaning of agitate.

---

60. Answer: a

**Explanation:**

Here the correct answer is **Option 1**.

★ Key Points

- The correct answer is **segment 1: "will have purchased"**.
- The correct verb tense to use in this sentence is **"will have been purchased"** to convey that the immortality has been obtained.
- The given sentence is in passive voice and **future perfect tense**.
- The structure for such sentences is:-
  - **Subject + will + has/have + been + V3 + Object.**
- **For example:**
  - The project **will have been completed** by the team by the end of the month.
  - The cake **will have been baked** by the time the guests arrive.
- Thus, the correct answer is **Option 1**.

So, the corrected sentence will be: *"But this immortality will have been purchased at the price of his immortal part."*

---

61. Answer: a

Explanation:

Here the correct answer is **Tendency**.

★ Key Points

- The correct spelling is **"Tendency."**
- **"Tendency"** refers to **an inclination or predisposition towards a particular action or behavior**.
  - Examples: "She has a **tendency** to procrastinate" or "His **tendency** towards risk-taking often leads to financial losses."
- The other options - **"Tendensy," "Tendency,"** and **"Tendancy"** - are all incorrect spellings.
- Thus, **option 1** is the correct answer.

---

62. Answer: c



## Explanation:

The correct answer is **option 3, "errand."**

### ★ Key Points

- An "errand" refers to **a short trip taken to perform a specific task or job, often on behalf of someone else.**
- In the given sentence, the person is walking through the street on an errand, which suggests that they have a specific task to accomplish.
- **Option 1, "objection,"** refers to a disagreement or protest, and does not make sense in the context of the sentence.
- **Option 2, "encasement,"** refers to the act of enclosing something in a protective covering or container, which also does not make sense in the context of the sentence.
- **Option 4, "amendment,"** refers to a change or addition made to a document or law, and does not make sense in the context of the sentence.
- Thus, the correct answer is **Option 3.**

**Correct Sentence:** *As he went through the street on an errand that morning, he saw a woman with a cat under her arm.*

---

## 63. Answer: b

## Explanation:

Here the correct answer is **Triennial.**

### ★ Key Points

- **Triennial** refers to **something that happens every three years, which fits the description given in the question.**
  - Example: The **triennial** report of the company was released today.
- Thus, the correct answer is **Option 2.**

### ★ Additional Information



- Other options and their meanings:
  - **Annual:** happening once a year.
  - **Biennial:** happening once every two years.
  - **Millennial:** relating to a period of one thousand years or the generation born in the 1980s and 1990s.
- 

64. Answer: b

**Explanation:**

Here the correct answer is **Imprudence**.

★ Key Points

- The correctly spelt word is "**Imprudence**".
  - **Imprudence** means **the quality of being unwise or indiscreet**.
    - *Example: His **imprudence** led to the loss of the entire investment.*
  - Thus, the correct answer is **Option 2**.
- 

65. Answer: d

**Explanation:**

The correct answer is **option 4) for**.

★ Key Points

- The sentence means that the speaker is trying to sell a single orange for Rs. 10, but nobody is willing to buy it.
- Here, '**for**' is the correct preposition to indicate the price of the orange.
- **Examples:**
  - I bought a new phone **for** \$500.
  - She sold her car **for** a good price.
- Thus, the correct answer is **Option 4**.

**Correct Sentence:** *We are selling a single orange for ₹10 but nobody is ready to buy it.*

★ **Additional Information**

- The other options do not fit in the context of the sentence:
- 'On' is used to indicate a surface, location, or time.
  - For example, "I put the book on the table" or "The meeting is on Monday."
- 'To' is used to indicate movement in the direction of someone or something.
  - For example, "I am going to the store" or "I gave the book to him."
- 'With' is used to indicate the means or method of something.
  - For example, "I wrote the letter with a pen" or "He painted the house with a brush."

---

66. **Answer: d**

**Explanation:**

Here the correct answer is **Strict and harsh control**.

★ **Key Points**

- The most appropriate meaning of the underlined idiom in the given sentence is 4) "**strict and harsh control**".
- The idiom "**an iron hand**" means **to have strict and harsh control over something or someone**.
- In the given sentence, the speaker is saying that the person they are referring to governs their company with strict and harsh control, implying that he is a strict and authoritative leader.
- Therefore, the correct meaning of the idiom in this context is "**strict and harsh control**".
- Thus, the correct answer is **Option 4**.

---

67. **Answer: d**

## Explanation:

Here the correct answer is **Option 4**.

### ★ Key Points

- The word "**suspecting**" is an adjective that describes a person who has a tendency to suspect others.
- In this context, it should be replaced with the adjective "**suspicious**" to describe the behavior of the strangers.
- **Examples:**
  - He is always **suspecting** his colleagues, which makes it difficult to work with him. (correct use of "suspecting" as an adjective)
  - The police are **suspicious** of the man's behavior and are investigating him. (correct use of "suspicious" as an adjective)
- Thus, the correct answer is **Option 4**.

**The correct sentence should be:** "*Residents should keep an eye out for strangers acting suspicious in their areas.*"



### Additional Information

- Option 1) "eye out for strangers" is correct and does not contain an error.
- Option 2) "No error" is not the correct answer in this case.
- Option 3) "Residents should keep an" is also correct and does not contain an error.

---

## 68. Answer: b

### Explanation:

Here the correct answer is **It acquires a**.

### ★ Key Points

- The correct answer is **option 2, "it acquires a"**.
- The sentence is discussing a cause and effect relationship, where the action of rubbing a plastic comb on dry hair causes the comb to acquire a static charge.
- **"it"** is a more appropriate subject to refer to the plastic comb, as opposed to **"they,"** which refers to multiple objects.
- Additionally, the present tense **"acquires"** is more appropriate than the past tense **"acquired"** since the sentence is describing a general truth or fact.
- Thus, the correct answer is **Option 2**.

Therefore, the correct and improved sentence would be: *"When a plastic comb is rubbed on dry hair, it acquires a static charge."*

69. Answer: b

Explanation:

Here the correct answer is **Whatever happens**.

★ Key Points

- The most appropriate meaning of the underlined idiom in the given sentence is **2) "Whatever happens"**.
- The idiom **"come rain or shine"** means that **no matter what happens or what obstacles come in the way, the person is determined to do something**.
- In the given sentence, the speaker is saying that they will go to Paris tomorrow no matter what happens or what the weather is like.
- Therefore, the correct meaning of the idiom in this context is **"whatever happens"**.

★ Additional Information

- Explanation of other options:
- **At the last moment (Option 1)** is not an appropriate meaning of the idiom "come rain or shine".

- To decide later (Option 3) is not an appropriate meaning of the idiom "come rain or shine".
  - To come before the decided time (Option 4) is not an appropriate meaning of the idiom "come rain or shine".
- 

70. Answer: c

**Explanation:**

Here the correct answer is **Assiduous**.

★ Key Points

- The most appropriate synonym of the given word "laborious" is 3) "assiduous".
- **Laborious** means **requiring a lot of effort and time to do something**.
  - For example: Writing a book is a **laborious** task.
- **Assiduous** means showing great care, attention, and effort in doing something.
  - For example: She was **assiduous** in her studies and always got good grades.
- Therefore, **option 3** is the most appropriate synonym of the given word.

★ Additional Information

- Explanation of other options:
  - **Unsophisticated (Option 1)** means lacking refinement, knowledge or culture. It is not a synonym of laborious.
  - **Profane (Option 2)** means disrespectful or irreverent towards religious or sacred things. It is not a synonym of laborious.
  - **Pompous (Option 4)** means having an exaggerated sense of self-importance or dignity. It is not a synonym of laborious.
- 

71. Answer: d

**Explanation:**

Here the correct answer is **Signing**.

★ Key Points

- The most appropriate option to fill in **blank number 1** is "**signing**".
- The sentence talks about Coca-Cola becoming the new sponsor of the London Eye after signing a deal to replace EDF Energy.
- "**Signing**" here means **reaching an agreement or contract**.
- **Examples:**
  - The two companies **signed** a deal to collaborate on a new project.
  - The athlete **signed** a contract with the sports team for three years.
- Thus, the correct answer is **Option 4**.

Correct Paragraph: *Coca-Cola is to become the new sponsor of the London Eye after (1) **signing** a deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2) \_\_\_\_\_ tourist attraction since it was introduced in 2000, when it was (3) \_\_\_\_\_ as the Millennium Wheel. It was previously (4) \_\_\_\_\_ by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) \_\_\_\_\_ a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.*

★ Additional Information

- The other options and their meanings are:
- "**Assorting**" means arranging in a particular way or sorting. It is not appropriate in the context of the sentence.
- "**Enclosing**" means surrounding or enclosing something. It is not appropriate in the context of the sentence.
- "**Clearing**" means removing obstructions or making something clear. It is not appropriate in the context of the sentence.

---

72. **Answer: a**

**Explanation:**

Here the correct answer is **Leading**.

★ Key Points

- The most appropriate option to fill in **blank number 2** is "**leading**".
- The sentence talks about the London Eye being a tourist attraction, and "**leading**" is an appropriate word to describe it as the London Eye is one of the most popular tourist attractions in London.
- **Examples:**
  - The company is a **leading** manufacturer of smartphones.
  - The athlete is a **leading** contender for the gold medal.
- Thus, the correct answer is **Option 1**.

**Correct Paragraph:** *Coca-Cola is to become the new sponsor of the London Eye after (1)**signing**a deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2)**leading**tourist attraction since it was introduced in 2000, when it was (3) \_\_\_\_\_ as the Millennium Wheel. It was previously (4) \_\_\_\_\_ by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) \_\_\_\_\_ a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.*

★ Additional Information

- The other options and their meanings are:
- "**Susceptible**" means easily influenced or affected. It is not appropriate in the context of the sentence.
- "**Supportive**" means providing support or help. It is not appropriate in the context of the sentence.
- "**Mandatory**" means required or necessary. It is not appropriate in the context of the sentence.

---

73. **Answer: d**

**Explanation:**

Here the correct answer is **Known**.

★ Key Points



- The most appropriate option to fill in **blank number 3** is "known".
- The sentence talks about the London Eye being introduced in 2000, and "known" is an appropriate word to describe how it was referred to or recognized as the Millennium Wheel.
- **Examples:**
  - The actor is **known** for his brilliant performances.
  - The city is **known** for its beautiful beaches and sunny weather.
- Thus, the correct answer is **Option 4**.

**Correct Paragraph:** *Coca-Cola is to become the new sponsor of the London Eye after (1) signing a deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2) leading tourist attraction since it was introduced in 2000, when it was (3) known as the Millennium Wheel. It was previously (4) \_\_\_\_\_ by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) \_\_\_\_\_ a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.*

★ **Additional Information**

- The other options and their meanings are:
- "**Based**" means situated or located. It is not appropriate in the context of the sentence.
- "**Inscribed**" means engraved or written on a surface. It is not appropriate in the context of the sentence.
- "**Published**" means made available to the public through print or digital media. It is not appropriate in the context of the sentence.

---

74. **Answer: a**

**Explanation:**

Here the correct answer is **Sponsored**.

★ **Key Points**

- The most appropriate option to fill in **blank number 4** is "sponsored".



- The sentence talks about the London Eye being previously owned by British Airways before becoming the EDF Energy London Eye in 2011, which implies that British Airways sponsored the London Eye before EDF Energy.
- **Examples:**
  - The company **sponsored** the local marathon.
  - The event was **sponsored** by a major sports brand.
- Thus, the correct answer is **Option 1**.

**Correct Paragraph:** *Coca-Cola is to become the new sponsor of the London Eye after (1)signinga deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2)leadingtourist attraction since it was introduced in 2000, when it was (3)knownas the Millennium Wheel. It was previously (4)sponsored by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) \_\_\_\_\_ a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.*

★ **Additional Information**

- The other options and their meanings are:
- **"Refused"** means declined or rejected. It is not appropriate in the context of the sentence.
- **"Kept"** means held or retained. It is not appropriate in the context of the sentence.
- **"Authenticated"** means verified as genuine or true. It is not appropriate in the context of the sentence.

---

**75. Answer: a**

**Explanation:**

Here the correct answer is **Striking**.

★ **Key Points**

- The most appropriate option to fill in **blank number 5** is **"Striking."**

- The sentence mentions that Coca-Cola will take over as the new sponsor of the London Eye after "**striking**" a two-year deal with the wheel's owner, Merlin Entertainments.
- Here, "**striking**" means **reaching or concluding a deal or an agreement**.
- Therefore, the most appropriate option to fill in the blank is "**striking**."

**Correct Paragraph:** *Coca-Cola is to become the new sponsor of the London Eye after (1)signing a deal to replace France's EDF Energy. The capital's giant Ferris Wheel has been a (2)leading tourist attraction since it was introduced in 2000, when it was (3)known as the Millennium Wheel. It was previously (4)sponsored by British Airways before becoming the EDF Energy London Eye in 2011. Coca-Cola will take over in January after (5) **striking** a two-year deal with the wheel's owner, Merlin Entertainments, for an undisclosed sum.*

★ **Additional Information**

- Other options and their meanings:
- **Discovering:** to find something that was previously unknown.
- **Forging:** to create or develop something new.
- **Hedging:** to protect oneself against a loss or a risk by taking compensatory measures.

76. Answer: b

## Your Personal Exams Guide

### Explanation:

The correct answer is **Bandha Nritya**.

★ **Key Points**

- **Gotipua**
  - It is a **traditional dance form** in the state of **Odisha**, India, and the precursor of Odissi classical dance.
  - It has been performed in Orissa for centuries by **young boys**, who dress as women to **praise Jagannath and Krishna**.
  - It is popularly known as **Bandha Nritya**.

- The dance is executed by a group of boys who perform acrobatic figures inspired by the life of Radha and Krishna.
- The boys begin to learn the dance at an early age until adolescence when their androgynous appearance changes.
- In the Odia language, Gotipua means "**single boy**".
- **Raghurajpur**, Odisha (near Puri) is a historic village known for its Gotipua dance troupes.
- The dance of the Gotipuas is accompanied by traditional Odissi music with the primary percussion being the Mardala (Percussive Instrument).

★ Additional Information

Dance Form	Origin	Region	Characteristics
Garba	Gujarat	Western India	Traditional folk dance, performed in circular formations with Dandiya sticks, often during the Navratri festival
Bandha Nritya	Odisha	Eastern India	The classical dance form, features acrobatic movements, storytelling through mudras (hand gestures), and intricate footwork
Bhangra	Punjab	Northern India	Traditional folk dance, characterized by energetic and lively movements, usually accompanied by Bhangra music and the dhol drum
Lavani	Maharashtra	Western India	The folk dance form, known for its sensuous movements, fast-paced rhythm, and lively music, often featuring themes of love and romance

77. Answer: d

## Explanation:

The correct answer is **Article 44**.

### ★ Key Points

- **Article 44** of the **Indian Constitution** states that “the State shall endeavour to secure for the citizens a uniform civil code (UCC) throughout the territory of India.”
- The desirability of a **uniform civil code** is consistent with **human rights and the principles of equality, fairness, and justice**.
- The **Uniform Civil Code (UCC)** calls for the formulation of one law for India, which would apply to all religious communities in matters such as **marriage, divorce, inheritance, and adoption**.

### ★ Additional Information

Article	Summary
Article 40	Article 40 of the Indian Constitution brings up one of the Directive Principles of State Policy which lays down that the State shall undertake necessary steps to organise village panchayats.
Article 42	It ensure humane work conditions and provide for maternity relief. It states that “The State shall make provision for securing just and humane conditions of work and for maternity relief”. It is a principle of socialistic nature and dedicated to achieve social and economic welfare of the people with the objective to establish India as a Welfare State.
Article 46	The Universal Declaration of Human Rights is to be interpreted as a whole, and no part of it should be used to justify violating the rights of another.  Additionally, countries are encouraged to promote the rights declared in the UDHR through education and other means.

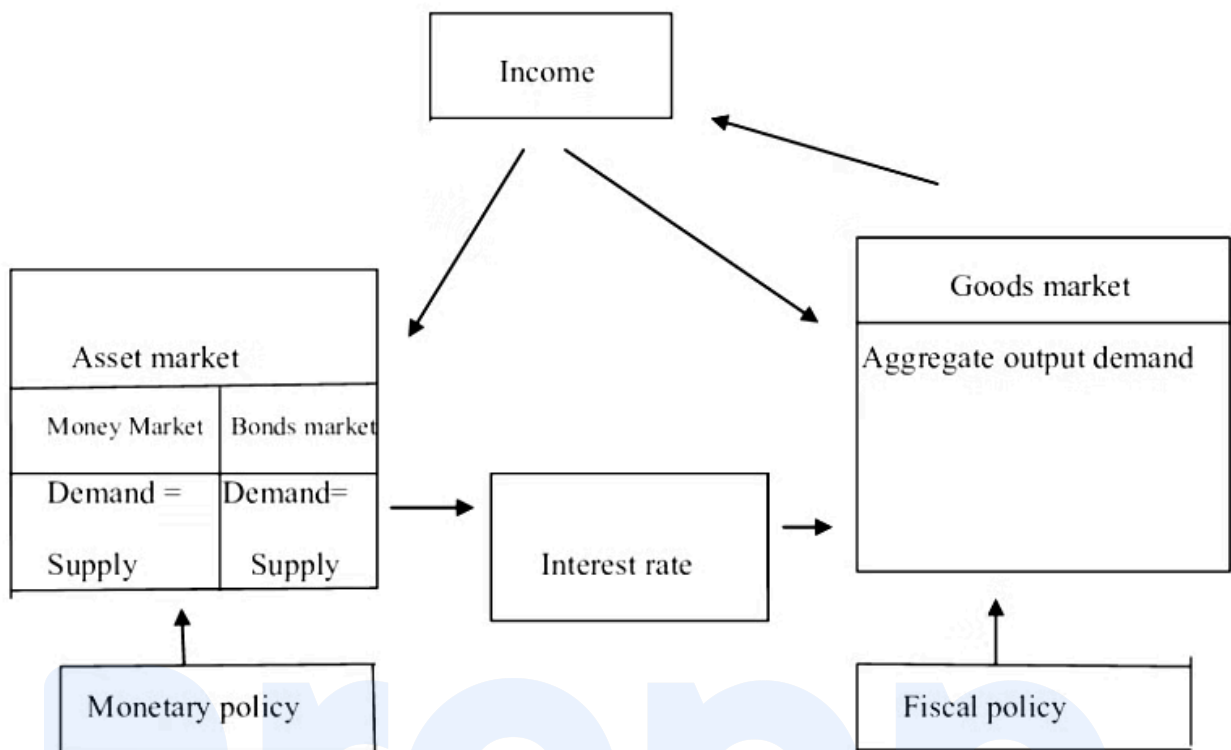
## 78. Answer: b

### Explanation:

The correct answer is the Money supply.

### ★ Key Points

- Money supply -
  - The total stock of **money in circulation among the public** at a particular point in time is called the money supply.
  - RBI publishes figures for four alternative measures of money supply, viz. **M1, M2, M3 and M4**.
  - They are defined as follows -
    - **M1** = Currency + Demand deposits with the banking system. Hence, statement 2 is incorrect.
    - **M2** = M1 + Savings deposits with Post Office savings banks
    - **M3** = M1 + Net time deposits of commercial banks
    - **M4** = M3 + Total deposits with Post Office savings organizations (excluding National Savings Certificates)
  - M1 and M2 are known as **narrow money**. Hence, statement 3 is correct.
  - M3 and M4 are known as **broad money**.
  - These gradations are in decreasing order of liquidity. **M1 is the most liquid and easiest for transactions whereas M4 is the least liquid of all. M3 is the most commonly used measure of the money supply.**
  - It is also known as **aggregate monetary resources**.



79. Answer: d

Explanation:

The correct answer is Tanvi Shah.

★ Key Points

- **Tanvi Shah**
  - **Tanvi Shah** was born on **December 1st, 1985**, and she is from **Tamil Nadu**.
  - She has performed songs in **Arabic, Telugu, Tamil, Hindi, Spanish, and Portuguese**.
  - **Tanvi Shah** is the **first Indian woman to win the Grammy Award**.
  - For **writing the Spanish lyrics for the song Jai Ho**, he shared the **Grammy Award for Best Song Written for Visual Media at the 52nd Grammy Awards** alongside **AR Rahman and Gulzar**.
  - Other honours received by her include the **2009 BMI Award** and the **World Sound Track Award (2009)**.

- In 2011, Tanvi walked the red carpet at the Latin Grammys.
- More recently, she performed on stage with South African singer and composer Lebohang Morake, who is best known for creating the soundtrack for the motion pictures and stage performances of The Lion King.

### ★ Additional Information

- **The Grammy Award**
  - The US Recording Academy presents the Grammy Award, or simply **Grammy**, to honour "Outstanding Achievement in the Music Industry."
  - A **gilded gramophone** is pictured on the trophy.
  - The **Grammy Awards are the first of the Big Three networks' major music awards** that are held annually.
  - To recognise the musical achievements of **singers for the year 1958, the first Grammy Awards ceremony took place on May 4, 1959.**
  - Many **Grammy Award categories were changed for 2012** by The Recording Academy following the 2011 ceremony.
  - The **MGM Grand Garden Arena hosted the 64th Grammy Awards on April 3, 2022, in Las Vegas.**

80. Answer: c

### Explanation:

The correct answer is 17.

### ★ Key Points

- There are a **total of 17 General Election/ Lok Sabha Election** held in India till April 2022.
- The elections are held by the **Election Commission of India.**
- They decide the **schedule and all rules regarding elections are made by the parliament.**
- **Article 324** provides for the **Election Commission and all powers it exercises.**



- The Election Commission announces the schedule of the Elections of State and Union Legislatures.

### ★ Additional Information

- As many as seventeen General Elections to the Lok Sabha have been held till date.
- The **seventeenth** General Elections were held from 11 April to 19 May 2019.
- The **Bharatiya Janata Party** having **303 Members** is the largest party in the **Seventeenth Lok Sabha** followed by the Indian National Congress having **52 Members**.
- Shri Om Birla is the Speaker of the Lok Sabha.
- The maximum strength of the Lok Sabha can be 552 members.
- Out of these 552 members, 530 members are elected from the States, and 20 members are elected from the Union Territories.
- President has the power to summon or prorogue the Houses of Parliament and to dissolve the Lok Sabha.

---

81. Answer: c

### Explanation:

The correct answer is Palk Strait.

### ★ Key Points

- **Palk Strait**
  - The strait is between **southeastern India and northern Sri Lanka**.
  - The southwestern portion of the strait is also called **Palk Bay**.
  - The strait is named after **Robert Palk, who was a governor of Madras during the Company Raj period**.
  - The strait is **40 to 85 miles (64 to 137 km) wide, 85 miles long, and less than 330 feet (100 meters) deep**.
  - It receives several rivers, including the **Vaigai (India)**, and it contains many islands on the Sri Lankan side.



- The port of Jaffna, the commercial **centre for northern Sri Lanka, lies on the strait.**

★ Additional Information

- Major straits of the world-
  - The Strait of Gibraltar connects the Atlantic Ocean and the Mediterranean sea.
  - The Strait of Hormuz connects the Gulf of Oman and the Persian Gulf, it is situated between Iran and Oman
  - The Strait of Bering connects the Arctic Ocean and the eastern Pacific Ocean.
  - The Strait of Florida connects the Gulf of Mexico and the Atlantic ocean.
  - Yucanton strait connects the Gulf of Mexico and the Caribbean Sea.
  - The Strait of Sunda connects the Java Sea and the Indian Ocean. It is located between Java Island and Sumatra Island.
  - Bab-al-Mandeb connects the Gulf of Aden And The Red Sea.
  - The 10-degree channel separates the Andaman sea and the Bay of Bengal.
  - Duncan passage little Andaman is separated from great Andaman by the Duncan passage.
  - The 9-degree channel separates Kavaratti from Minicoy Island.
  - The 8-degree channel separates Minicoy Island from the Maldives.
  - Strait of Malacca joins the Andaman sea and the South China Sea.
  - Palk strait connects the Bay of Bengal and Pak Bay or the Arabian Sea in the southwest.

---

82. **Answer: c**

**Explanation:**

The correct answer is Madhya Pradesh.

★ Key Points

- Tapi River

- Apart from the Narmada river, Tapi is the only river that flows in the westward direction and flows through a rift valley.
- Total length: around 724 km.
- Originates in Betul district, Madhya Pradesh in the Satpura range.
- It merges into the Arabian Sea.
- The states through which the Tapi river flows include Maharashtra, Gujrat and Madhya Pradesh.
- The main tributaries of the Tapi river are Purna, The Girna, The Panjhra, The Vaghur, the Bori and the Aner.

★ Additional Information

River	Origin
Godavari	Trimbakeshwar, Nashik
Krishna	Mahabaleshwar, Satara
Tapi	Multai, Betul district, Madhya Pradesh
Godavari	Nasik Hills, Maharashtra
Krishna	Mahabaleshwar, Maharashtra
Penna	Nandi Hills, Chikballapur district, Karnataka
Narmada	Amarkantak, Anuppur district
Betwa	Vindhya Range, near Bhopal
Chambal	Janapav, Mhow district
Kaveri	Talakaveri, Kodagu district
Krishna	Mahabaleshwar, Maharashtra
Tungabhadra	Koodli, Shimoga district

83. Answer: a

## Explanation:

The correct answer is 1952.

### ★ Key Points

- In **1952**, India became the first country in the world to implement a nationwide **Family Planning Programme**.
- In India, **family planning** has mostly been a result of government initiatives.
- From its early days, when the focus was on a clinical approach, to today, when the focus is on reproductive health and the lowering of **mother and newborn mortality rates**, as well as **child mortality** and **morbidity**, the programme has experienced a major transition.
- The **National Population Policy (NPP)** introduced in **2000** has aided in the lowering of fertility.
- The government established several clinics for reproductive health and family planning as part of the programme.
- There is also a lot of knowledge about family planning, the need for spacing between children, and having fewer children per marriage thanks to different media.
- For **promoting the Two-Child Norm**, the government has promoted the phrase "**Hum Do, Humare Do.**"
- There are additional penalties, such as not being able to work for the government if you have more than two children, and so on.
- However, in other cases, they may have **backfired**, resulting in more **sex-selective abortions**, etc.

---

## 84. Answer: c

## Explanation:

The correct answer is Mahendra Singh Dhoni.

### ★ Key Points

- India won all three major ICC trophies in white-ball cricket under the captaincy of Mahendra Singh Dhoni.
- He led the Indian cricket team to victory in the **2007 ICC World Twenty20**, the **2010 and 2016 Asia Cups**, the **2011 ICC Cricket World Cup**, and the **2013 ICC Champions Trophy**.

### ★ Important Points

- **In 2007**, India won the inaugural **ICC World Twenty20** tournament held in **South Africa**.
  - The team, led by Dhoni, defeated arch-rivals Pakistan in a thrilling final to lift the trophy.
  - It was India's first major ICC trophy win in five years and marked the arrival of a new format of the game in style.
- **In 2010**, India won the Asia Cup, **which was held in Sri Lanka**.
  - Under Dhoni's captaincy, India won all their matches in the tournament, defeating Sri Lanka in the final to lift the trophy.
  - **This was India's first Asia Cup win since 1995.**
- **In 2011**, India won the ICC Cricket World Cup, held in the Indian subcontinent.
  - Dhoni played a key role in the tournament, leading from the front and hitting the winning runs in the final against Sri Lanka at the Wankhede Stadium in Mumbai.
  - The victory marked a historic moment for Indian cricket, **as the team lifted the World Cup trophy after 28 years.**
- **In 2013**, India won the ICC Champions Trophy, which was held in England and Wales.
  - Under Dhoni's captaincy, India defeated England in a rain-affected final to win the tournament.
  - This was India's second major **ICC trophy win in three years and solidified their status as one of the best teams in the world in limited-overs cricket.**
- **In 2016**, India won the Asia Cup for the sixth time, which was held in Bangladesh.
  - Under Dhoni's captaincy, India won all their matches in the tournament, **defeating Bangladesh in the final to lift the trophy.**
  - **This was Dhoni's last major ICC trophy win before he retired from international cricket in 2020.**

85. Answer: b

**Explanation:**

The correct answer is Satavahana.

★ Key Points

- **Gautamiputra Satakarni**
  - He is considered the greatest king of the Satavahana dynasty.
  - It is believed that at one stage, the Satavahanas were dispossessed of their dominions in the **upper Deccan and western India**.
  - The fortunes of the Satavahanas were restored by Gautamiputra Satakarni.
  - **He called himself the only Brahmana who defeated the Shakas and destroyed many Kshatriya rulers.**
  - He is believed to have destroyed the Kshaharata lineage to which his adversary Nahapana belonged.
  - More than 800 silver coins of Nahapana (found near Nasik) bear marks of being re-struck by the Satavahana king.
  - Nahapana was an important king of the Western Satraps.
  - His kingdom ran from Krishna in the south to Malwa and Saurashtra in the north and from Berar in the east to the Konkan in the west.
  - He was given the titles of Rajaraja and Maharaja. He donated land to the Buddhist monks.
  - His mother was **Gautami Balasri** and his name was Gautamiputra (son of Gautami).
  - **His son Vasisthiputra Sri Pulamavi/Pulumavi or Pulamavi II succeeded him.**

★ Additional Information

- Cholas:
  - **Known as Imperial Cholas of Tanjore.**
  - The founder of the Chola dynasty was Vijayalaya who was at **first a feudatory of Pallavas.**

- The **greatest kings of Cholas were Rajaraja & his son Rajendra I.**
- The use of the Agrahatta (Persian wheel) also facilitated the already established smooth irrigation networks of tanks, canals, wells, and sluices.
- **Local self-government was an important feature of Cholas's rule.**
- **Pandyas:**
  - The Pandyas ruled present-day southern Tamil Nadu.
  - The Pandya kings patronized Tamil poets and scholars.
  - Several names of Pandya kings are mentioned in the Sangam literature.
- **Cheras:**
  - **Vanji** was the capital of the **Chera kingdom.**
  - The rulers and the people of the Chera kingdom used the Malayalam language.
  - The scripts and inscriptions were written in the Malayalam language.
  - The Chera kingdom was one of the earliest kingdoms to use regional language in their court.

Dynasty	Garland	Port	Capital	Symbols
Cheras	Palmyra flower	Muziri / Tondi	Vanchi / Karur	Bow and arrow
Cholas	Fig (Athi) lower	Puhar	Uraiyr / Puhar	Tiger
Pandyas	Margosa (neem) flower	Korkai	Madurai	Two Fis

86. Answer: c

**Explanation:**

The correct answer is Maulana Abul Kalam Azad.

★ Key Points

- **Khilafat movement:**
  - **The Khilafat movement** was launched with the aim of pressurizing the British government to preserve the authority of the **Ottoman Sultan** as

**Caliph of Islam** following the breakup of the **Ottoman Empire** at the end of the war.

- Being a Caliph, the Ottoman emperor was the chief of religious and political leader of all Sunni Muslims across the world.
- **Muslims were especially worried about the future of the Islamic places of worship after the allied powers had partitioned the Turkish Empire and that they** demanded that the Khalifa must retain control over Muslim holy places.
- **All India Khilafat Committee** was created at Lucknow by leaders like **Muhammad Ali, Shaukat Ali, Maulana Azad, Hasrat Mohani, and many others.**
- It was also a period of **Hindu-Muslim unity** due to the **overlapping of the Non-Cooperation and Khilafat movement.**
- The leaders of the Khilafat Movement joined hands with Indian National Congress for the upcoming Non-cooperation Movement.
- **March 19, 1920, was observed as Khilafat Day,** and following that there was an **all-party conference in June 1920 at Allahabad** and the agenda of the Non-cooperation Movement was finalized.

87. Answer: c

Explanation:

The correct answer is Atletico de Kolkata.

★ Key Points

- The **first edition** of the **Indian Super League (ISL)** was held in 2014.
- The **team that won the tournament** was **Atletico de Kolkata** (now known as **ATK**), defeating **Kerala Blasters FC** in the final by a score of 1-0.

★ Additional Information

- The tournament was a professional football league in India, consisting of **eight teams** from different cities in India.



- It was played in a **round-robin format**, followed by a knockout stage with the **top four teams qualifying for the semifinals and then the final**.
- The tournament had a total of 61 matches played over **72 days**, with the final taking place on **December 20, 2014**, in **Mumbai**.
- **Atletico de Kolkata** emerged as the champions of the **first edition**, defeating **Kerala Blasters FC 1-0** in the final, with **Mohammed Rafique** scoring the decisive goal in the **dying minutes of the game**.
- The first edition of the ISL was widely regarded as a success, with a total attendance of over **1.5 million fans**, and it helped to raise the profile of football in India.

88. Answer: d

Explanation:

The correct answer is Meghalaya.

★ Key Points

- **Nongkrem dance festival:**
  - Generally, in the **month of November, every year**.
  - Venue: Smit, the Khasi Hills in Meghalaya.
  - **The Nongkrem dance festival is celebrated during Autumn at Smit, the cultural centre of the Khasi Hills.**
  - It is a five-day-long religious festival of the Khasis, **Ka Pomblang Nongkrem dance is popularly known as Nongkrem dance.**
  - Nongkrem Dance Festival is performed to appease the all-powerful Goddess Ka Blei Synshar for a rich bumper harvest and prosperity of the people.

★ Additional Information



State	Festival	Date
Bihar	Chhath Puja	October/November
Bihar	Sonepur Mela	November/December
Bihar	Makar Sankranti	January 14
Madhya Pradesh	Khajuraho Dance Festival	February/March
Madhya Pradesh	Diwali	October/November
Madhya Pradesh	Holi	March
Kerala	Onam	August/September
Kerala	Vishu	April 14/15
Kerala	Thrissur Pooram	April/May
Meghalaya	Nongkrem	October/November
Meghalaya	Wangala	November/December
Meghalaya	Shad Suk Mynsiem	April/May

89. Answer: c

**Explanation:**

The correct answer is 1540.

★ Key Points

- Humayun was defeated by Sher Shah in the **Battle of Kannauj (Bilgrama)** in **1540** AD and had to flee.
- He wandered in Sindh during the reign of **Shah Hussain Arghuna** and then reached the Iranian Court.
- Humayun was the son of Babur and ascended the throne in **1530** AD.

- His succession was challenged by his brothers **Kamran, Hindal, and Askari** along with the Afghans.
- His first campaign was against **Kalinjar**.

★ Additional Information

Battle Name	Date	Belligerents	Result
First Battle of Tarain	1191	Prithviraj Chauhan's Rajputs vs. Muhammad Ghori's Ghurids	Rajput victory
Second Battle of Terrain	1192	Prithviraj Chauhan's Rajputs vs. Muhammad Ghori's Ghurids	Ghurid victory
Battle of Chandawar	1194	Muhammad Ghori's Ghurids vs. Jaichand of Kannauj's Rajputs	Ghurid victory
Battle of Khanwa	1527	Babur's Mughals vs. Rana Sanga's Rajputs	Mughal victory
Battle of Panipat	1526	Babur's Mughals vs. Sultan Ibrahim Lodi's Delhi Sultanate	Mughal victory
Battle of Haldighati	1576	Akbar's Mughals vs. Maharana Pratap's Rajputs	Mughal victory
Battle of Plassey	1757	Robert Clive's British East India Company vs. Siraj-ud-Daula's Nawab of Bengal	British victory
Third Battle of Panipat	1761	Ahmad Shah Durrani's Afghan Durrani Empire vs. Marathas	Durrani victory

90. Answer: a

**Explanation:**

The correct answer is Diabetes.

### ★ Key Points

- **Diabetes mellitus** is a group of **metabolic diseases** characterized by **hyperglycemia** resulting from defects in **insulin secretion, insulin action, or both**.
- This happens when the body has **too little insulin** (the hormone that transports glucose into the blood), or if the body can't use **insulin properly**.
- Hyperglycemia is blood glucose **greater than 125 mg/dL**.

### ★ Important Points

- **Early symptoms of hyperglycemia include:**
  - High blood sugar.
  - Increased thirst and/or hunger.
  - Blurred vision.
  - Frequent urination (peeing).
  - Headache.

### ★ Additional Information

- **Major risk factors for hyperglycemia are:**
  - Have a family history of type 2 diabetes.
  - Overweight.
  - High blood pressure or cholesterol.
  - Polycystic ovarian syndrome (PCOS)
  - History of gestational diabetes

---

91. **Answer: a**

### **Explanation:**

The correct answer is Madhabi Puri Buch.

### ★ Key Points

- **Madhabi Puri Buch** has been named as the next chairperson of the Securities and Exchange Board of India in March 2022.

- The government has announced Madhabi Puri Buch as new the **Chairperson of SEBI for a period of 3 years.**
- Buch is a former whole-time member of **SEBI.**
- She will succeed Ajay Tyagi, whose **five-year term comes to an end in February 2022.**
- This is the first time that a woman and a person from the private sector have been chosen for a key post with SEBI.

★ Additional Information

- **Securities and Exchange Board of India (SEBI)** was established on **April 12, 1988,** as a non-statutory body through a resolution of the Government of India.
- It became an **autonomous body on 30 January 1992 and was accorded statutory powers with the passing of the SEBI Act 1992 by the Parliament of India.**
- It is headquartered in **Mumbai.**

---

92. Answer: a

Explanation:

The correct answer is 100.

★ Key Points

- **Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)** provide 100 days of guaranteed wage employment.
- This was initiated with the **objective of "enhancing livelihood security in rural areas by providing at least 100 days of guaranteed wage employment in a financial year, especially to households whose adult members volunteer to do unskilled manual work".**
- This Act also aims to **create durable assets (such as roads, canals, ponds, and wells).**
- Within **5 km of an applicant's residence, employment is provided.**

★ Additional Information

- **Objectives of MGNREGA:**
  - The **Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)**
  - **Provide 100 days of guaranteed wage employment to rural unskilled labour**
  - Increase economic security.
  - Decrease migration of labour from rural to urban areas.
  - It was known to be the National Rural Employment Guarantee Act.
  - MGNREGA Job Card is a document that renders a worker entitled to work under the MGNREGA scheme.

---

### 93. Answer: b

#### Explanation:

The correct answer is ropeways in hilly areas.

#### ★ Key Points

- Union Finance Minister Smt. Nirmala Sitharaman, while presenting **Union Budget for 2022–23**, announced the National Ropeways Development Programme “**Parvatmala**” which will be taken up on the “**PPP**” (public–private partnership) model.
- “For the first time in the country, the “**Parvatmala scheme**” is being started for areas such as **Himachal Pradesh, Uttarakhand, Manipur, Jammu–Kashmir, the North–Eastern states**”.
- The idea is to improve connectivity and convenience for commuters, besides promoting tourism.
- This scheme will create a modern system of transportation and connectivity in the mountains.
- The Union Finance Minister announced that contracts for **8 ropeway projects for a length of 60 km** would be awarded in **2022–23**.
- The **Ministry of Road Transport and Highways (MORTH)** will look after the development of Ropeways and Alternate Mobility Solutions in hilly areas of the country.

- In February 2021, the Government of India (Allocation of Business) Rules 1961 was amended, which enables the Ministry to also look after the development of Ropeways and Alternate Mobility Solutions.
- The move will give a boost to the sector by setting up a regulatory regime.
- Union Minister of **Ministry of Road Transport and Highways (MORTH)** – Nitin Gadkari.

94. Answer: d

**Explanation:**

The correct answer is Milkha Singh.

★ Key Points

**Milkha Singh:**

- **Milkha Singh was born in 1929 in Gobindpura village** in the Muzaffargarh district of Pakistan.
- During the 1947 partition, he became an orphan and moved to India.
- **Known as the Flying Sikh, Padma Shree Milkha Singh was an Indian field sprinter and track runner.**
- **He is the only athlete to win a gold medal in the 400 meters race** at the Commonwealth Games and the Asian Games.
- Milkha Singh set a **national record in the 1960 Olympics** by winning fourth place in the 400m race in 45.73 seconds.
- This record remained for almost 40 years.
- He was conferred India's **fourth-highest civilian honour, Padma Shri** for his sporting achievements.
- **'Bhaag Milkha Bhaag'**, directed by Rakeysh Omprakash Mehra and starring Farhan Akhtar and Sonam Kapoor, portrayed Milkha Singh's biography.
- His autobiography, **The Race of My Life** (co-written with his daughter Sonia Sanwalka), was published in 2013.
- Apart from these achievements, in 1960, he was persuaded by then Prime Minister Pandit Jawaharlal Nehru to run against Abdul Khaliq in Pakistan, whom

he defeated. He then received the title of “the Flying Sikh” from General Ayub.

- The veteran athlete succumbed to death on 18th June 2021 from COVID-related complications at 91.

★ Additional Information

Athlete	Autobiography Title
Dutee Chand	"Born to Run: My Sprinting Journey"
PT Usha	"Golden Girl: The Autobiography of PT Usha"

95. Answer: d

Explanation:

The correct answer is dispersion.

★ Key Points

- **Dispersion** is the phenomenon of visible light into its component colours.
- Dispersion of light is caused by the change of speed of light rays of each wavelength by a different amount.
- **It is a property of light.**
- **Dispersion of light occurs when white light is separated into its different constituent colours.**
- When white light is passed through a prism, it splits into seven colours.
- The colours are **Violet, Indigo, Blue, Green, Yellow, Orange, and Red.**

★ Additional Information

- **Refraction:**
  - **Refraction is the bending of light as it passes through a medium, such as air or water, with a different refractive index.**
  - The amount of bending depends on the angle of **incidence** and the **properties of the medium.**



- This phenomenon is what causes objects in water to **appear distorted or displaced**.
- **Reflection:**
  - **Reflection** occurs when light rays bounce off a **surface, changing direction**.
  - The angle at which the light hits the surface, known as the angle of incidence, **is equal to the angle at which the light is reflected, known as the angle of reflection**.
  - Reflection is what allows us to **see ourselves in mirrors, and is also responsible for the way light interacts with shiny surfaces**.
- **Scattering:**
  - Scattering is the process by which light is redirected in **many different directions when it encounters particles or irregularities in a medium**.
  - This can cause light to be diffused, making objects appear less sharp or distinct.
  - **Scattering** is responsible for the **blue colour of the sky, as well as the way light interacts with clouds, fog, and other atmospheric phenomena**.

---

96. Answer: a

**Explanation:**

The correct answer is Bahadur Shah Zafar.

★ Key Point

- **Bahadur Shah Zafar and The Revolt of 1857:**
  - He was the last **Mughal emperor** of India and is remembered for his role in the Indian uprising of **1857**.
  - By 1857, **Bahadur Shah Zafar** was reduced to just a nominal emperor who exercised few powers limited to the city boundaries of Delhi.
  - The **sepoys of Meerut were forced into the red fort and proclaimed Bahadur Shah Zafar as their leader**.
  - He was reluctant at first as he had no means to maintain an army but agreed after convincing.



- Other leaders too accepted to fight under his banner.
- The revolt of 1857 started only when Bahadur Shah Zafar, the last ruler of the Mughals, gave his permission.
- He wrote letters to the various chiefs and rulers of the country to come forward and organize a confederacy of Indian states to fight the British.
- The Sepoy Mutiny broke out in 1857 and the sepoys rallied around the emperor. He was practically powerless, but the mutineers were fighting in the name of Bahadur Shah Zafar, the Emperor of India.

### ★ Additional Information

- **The main centres of the Revolt of 1857 were:**
  - Delhi
  - Kanpur
  - Lucknow
  - Jhansi
  - Allahabad
  - Jagdishpur (Bihar)
- The main causes of revolt are contemporary Religious & Social, Political, and Economic scenarios of the country.
- **The revolt is known by different names:**
  - The Sepoy Mutiny (by the British Historians)
  - The Indian Mutiny
  - The Great Rebellion (by the Indian Historians)
  - The Revolt of 1857
  - The First War of Independence (by Vinayak Damodar Savarkar)

97. **Answer: d**

### **Explanation:**

The correct answer is Rayon.

### ★ Key Points

- **Artificial silk: Rayon**

- It is also called "Artificial silk".
- Obtained by chemical treatment of wood pulp.
- Wood Pulp is a natural source.
- Rayon is a man-made fibre and is very cheap in comparison with real silk.
- Can be woven like silk fibres and can be dyed in a wide range of colours.

★ Additional Information

- **First fully synthetic fibre: Nylon**
  - It was created in 1931 without the use of any natural raw materials (plant or animal).
  - Coal, water, and air were used to make it.
  - It was the world's first completely synthetic fibre.
  - Nylon is a strong, elastic, and light fibre.
  - It is glossy and simple to clean.
- **Polyester is a synthetic fibre derived from coal, air, water, and petroleum.**
  - Polyester fibres can form **very long molecules that are very stable and strong.**
  - It is used in the manufacture of many products, including **clothing, home furnishings, industrial fabrics, computer and recording tapes,** and electrical insulation.
  - Polyester has several advantages over traditional fabrics **such as cotton.**
- **Acrylic is a synthetic fibre** that is obtained through the **polymerization of acrylonitrile.**
  - For any fibre to be known as '**acrylic**', it should contain at least **85% acrylonitrile monomer.**
  - Due to its resemblance to wool and less cost, **it is mostly used as an alternative to wool in the textile industry.**

---

98. Answer: d

**Explanation:**

The correct answer is Gulf Stream.

★ Key Points

- The **Gulf Stream** brings warm water from the **Gulf of Mexico** up to the **Norwegian Sea**.
- As the warm water comes in, colder, denser water sinks and begins moving south eventually flowing along the bottom of the ocean to Antarctica.
- Its presence has led to the development of strong cyclones of all types, **both within the atmosphere and within the ocean**.

★ Additional Information

- **Ocean currents** are streams of water flowing constantly on the **ocean surface** in definite directions.
- The **ocean currents** may be **warm or cold**.
- Generally, the **warm ocean currents** originate near the equator and move towards the poles.
- The **cold currents** carry water from polar or higher latitudes to tropical or lower latitudes.
- The **Labrador Current** is a **cold current** in the **North Atlantic Ocean**.
- It flows from the Arctic Ocean to the south along the **coast of Labrador** and passes around **Newfoundland**, continuing south along the **east coast of Canada** near Nova Scotia.
- The **Falkland Current** (also called **Malvinas Current** or **Falklands Current**) is a cold water current that flows northward along the Atlantic coast of Patagonia as far north as the mouth of the **Río de la Plata**.
- The **Sargasso Sea** is distinguished because of its **brown sargassum weed** and **calm blue water**.
- **Labrador Current** is a cold **surface oceanic current** flowing southward along the west side of the **Labrador Sea**.

---

99. Answer: d

**Explanation:**

The correct answer is Alarmel Valli.

★ Key Points

- The Bharatanatyam dancer who became the **second youngest dancer** to be **honoured with the 'Padma Shri award in 1991** is **Alarmel Valli**.
- She was born on **September 14, 1957, in Chennai, Tamil Nadu, India**.
- She is one of the most famous **Bharatanatyam dancers** in India and has **been awarded several prestigious awards** for her contributions to the art form.
- In addition to the **Padma Shri**, she has also been **awarded the Padma Bhushan and the Sangeet Natak Akademi Award**.



★ Additional Information

- **Hema Malini** is an Indian film actress, producer, and **Bharatanatyam dancer** who has appeared in numerous Bollywood films.
  - She is also a trained classical dancer and has performed in several dance dramas.
- **Narthaki Nataraj** is a transgender Bharatanatyam dancer from Tamil Nadu, India.
  - She is the **first transgender person to be awarded the prestigious Padma Shri award** for her contributions to the field of dance.
- **Saroj Khan** was an Indian dance choreographer in the Hindi film industry.
  - She was known for her **iconic choreography in Bollywood films and won several awards for her work**.
  - She passed away on **July 3, 2020**.

100. Answer: b

**Explanation:**

The correct answer is Odisha.

★ Key Points

- **Mukteshwara Temple**
  - Located in **Jayashankar Bhupalpally's** Mahadevpur Mandal, Kaleshwaram is the confluence of the Godavari and Pranahita rivers, in **Odisha**.
  - The significant feature is the presence of two **Shiva Lingas** on a **single pedestal**.
  - **Lord Shiva** and **Lord Yama** (Mukteshwara) temples are present.
  - The **main attraction** is the **statue of fish**.

★ Additional Information

State	Temple	Location
Assam	Kamakhya Temple	Guwahati
Assam	Umananda Temple	Guwahati
Odisha	Jagannath Temple	Puri
Odisha	Lingaraj Temple	Bhubaneswar
Maharashtra	Shirdi Sai Baba Temple	Shirdi
Maharashtra	Siddhivinayak Temple	Mumbai
Gujarat	Somnath Temple	Veraval
Gujarat	Dwarkadhish Temple	Dwarka
Gujarat	Akshardham Temple	Gandhinagar
Gujarat	Sun Temple (Modhera)	Mehsana