

# 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: 25 July 2022 Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

## Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General 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. Which two signs should be interchanged to make the following equation correct? (+1, -0.25)

$$6 \div 24 + 6 \times 7 - 5 = 29$$

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

- 
2. 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)

**Statement I:** All brothers are sisters.

**Statement II:** All sisters are wives and all wives are sons.

**Conclusion I:** All brothers are sons.

**Conclusion II:** Some sons are wives.

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

3. In a certain code language, 'CRICKET' is written as 'FULFNHW', 'STYLE' is written as 'VWBOH' and 'RISE' is written as 'ULVH'. What is the code for the word 'GO' in that code language? (+1, -0.25)

- a. IQ
- b. IR
- c. JR
- d. DL

4. 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)

TON : YTS :: LAR : ?

- a. REW
- b. RFW
- c. QEW
- d. QFW

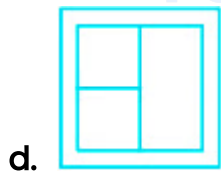
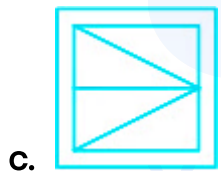
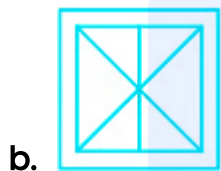
5. Select the number from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

31, 41, 55, 73, 95, ?

- a. 121
- b. 111
- c. 123

d. 143

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



7. Among five friends, Puneet, Qazir, Raman, Suresh and Tinku, Tinku is shorter than only one friend. Raman is the tallest among all the friends. Qazir is taller than only one person. Only two persons are shorter than Puneet. Who is the shortest among all the friends? (+1, -0.25)

a. Puneet

- b. Suresh
  - c. Tinku
  - d. Qazir
- 

8. 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. No X is C. II. Some A are C.

**Conclusions:**

- I. Some C are not X.
  - II. Some A are X is a possibility.
  - III. All C are A.
- a. Only conclusions I and II follow
  - b. All the conclusions follow
  - c. Only conclusions II and III follow
  - d. Only conclusion III follows
- 

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



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10. 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)

$$16 : 49 :: 18 : 55 :: 36 : ?$$

- a. 119
- b. 109
- c. 107
- d. 113

11. In a certain code language, 'HORNS' is written as 'SLIMH', and 'PIRTA' is written as 'KRIGZ'. How will 'SONG' be written in that language? (+1, -0.25)

- a. HLNT
- b. HLOS
- c. HMLS
- d. HLMT

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

GRAM, EPYK, CNWI, ?

- a. AMVH
- b. AMUG
- c. ALUG
- d. ALVG

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





a.

K	V
J	B

b.

K	V
J	B

c.

K	A
J	B

d.

14. Six friends, Himan, Bablu, Manoj, Erica, Pawan and Chaman, are sitting in two rows facing each other, with three friends in each row. Himan and Chaman are in the same row but are not neighbours. Bablu sits exactly opposite to Erica. Bablu sits to the immediate left of Himan facing south. Pawan sits exactly opposite to Chaman. Who sits exactly opposite to Himan? (+1, -0.25)

- a. Manoj
- b. Chaman
- c. Erica
- d. Bablu

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

+ and ×

I.  $180 - 32 + 3 \times 148 \div 37 = 88$

II.  $204 \div 17 \times 23 + 5 - 97 = 50$

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

---

16. In a certain code language, 'ISHTY' is written as '15789', 'PLEM' is written as '2304' and 'QPT' is written as '628'. Which word will be coded as '63781' in that code language? (+1, -0.25)

- a. QTLSP
- b. PETYL
- c. QLHTI
- d. THLPS



---

17. Five girls A, B, C, Z and U are sitting in a row, facing towards the south (but not necessarily in the same order). No one is sitting to the right of A. Three girls are sitting to the left of U. B is second to the left of C. Who is sitting second to the left of U? (+1, -0.25)

- a. U
- b. Z
- c. A

d. B

---

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

17, 25, 52, 116, 241, ?

a. 457

b. 467

c. 461

d. 447

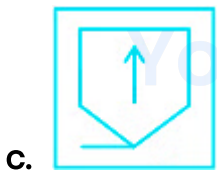
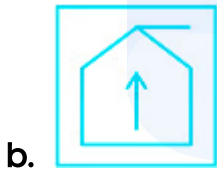
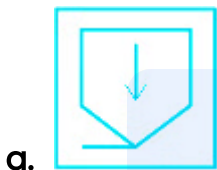
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19. Select the figure from the options that can replace the question mark (?) and complete the given pattern. (+1, -0.25)

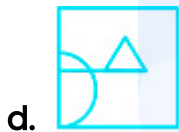
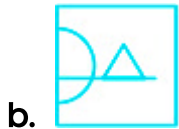
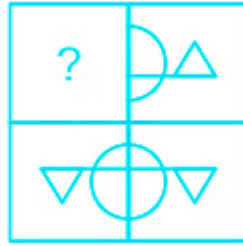




20. Select the correct mirror image of the given figure when the mirror is placed at line AB as shown. (+1, -0.25)



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



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

POND : WMLK :: RAMP : ?

- a. KZNI
- b. KMZI
- c. KNZI
- d. IZNK

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

(68, 46, 22) (242, 160, 82)

a. (108, 75, 33)

b. (38, 12, 18)

c. (176, 55, 148)

d. (88, 24, 48)

24. In a certain code language, 'GBTMS' is written as 'HNGYT' and 'PONDEK' is written as 'PVWMLK'. How will 'VIGOUR' be written in that code language? (+1, -0.25)

a. IELTRF

b. ILFTRE

c. IFLTRE

d. ILETRF

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)

Snake : Reptile :: Frog : Amphibian :: Orchid : ?

a. Petals

b. Animal

c. Stem

d. Flower

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## Numerical Aptitude

26. The compound interest on ₹18,000 at 7% per annum, compounded annually, is ₹1,260. What is the period of time? (+1, -0.25)
- a. 1 year
  - b. 2 years
  - c. 3 years
  - d. 4 years
- 
27. When a watch is sold at  $\frac{7}{8}$  th of the marked price, there is a profit of 25%. At what percentage more than the cost price has the marked price of the watch been fixed? [Give your answer correct to 2 decimal places.] (+1, -0.25)
- a. 34.46%
  - b. 42.86%
  - c. 37.15%
  - d. 30%
- 
28. The average of a set of 15 consecutive even numbers is 64. What is the difference between the largest and the smallest numbers belonging to this set? (+1, -0.25)
- a. 26
  - b. 27
  - c. 25



d. 28

---

29. Aman goes from A to B at a speed of 40 km/h . Using the same route, he comes back from B to A, at a speed of 55 km/h . What is his approximate average speed for the whole journey? (+1, -0.25)

- a. 47.5 km/h
  - b. 48.11 km/h
  - c. 46.32 km/h
  - d. 46.24 km/h
- 

30. A, B and C can do a piece of work in 10, 20 and 30 days, respectively. In how many days can A do the work if he is assisted by B and C on every third day? (+1, -0.25)

- a. 9 days
  - b.  $8\frac{5}{11}$  days
  - c.  $8\frac{2}{11}$  days
  - d.  $6\frac{5}{11}$  days
- 

31. The perimeter of a rectangle is 40 cm. If its breadth is 8 cm, then what is the difference between the length and breadth of this rectangle? (+1, -0.25)

- a. 3 cm
- b. 5 cm
- c. 6 cm

d. 4 cm

32. What is the value of  $\frac{\left[\left(\frac{5}{7} \text{ of } \frac{1}{12} \times \frac{1}{4} - \frac{1}{2} \times \frac{1}{8}\right) + \frac{5}{4} \times \frac{8}{15} - \frac{2}{3}\right]}{\frac{1}{2} \div \frac{1}{4} + \frac{1}{2}}$ ? (+1, -0.25)

a.  $\frac{-5}{108}$

b.  $\frac{-4}{103}$

c.  $\frac{-4}{105}$

d.  $\frac{-2}{105}$

33. If  $A : B = 5 : 4$ ,  $B : C = 6 : 5$ ,  $C : D = 7 : 10$ , then what is the value of  $A : D$ ? (+1, -0.25)

a. 21 : 25

b. 7 : 3

c. 21 : 20

d. 25 : 24

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34. A 750 metres long train crosses a stationary pole in 15 sec. Travelling at the same speed, this train crosses a bridge completely in 25 sec. What is the length of this bridge? (+1, -0.25)

a. 1000 m

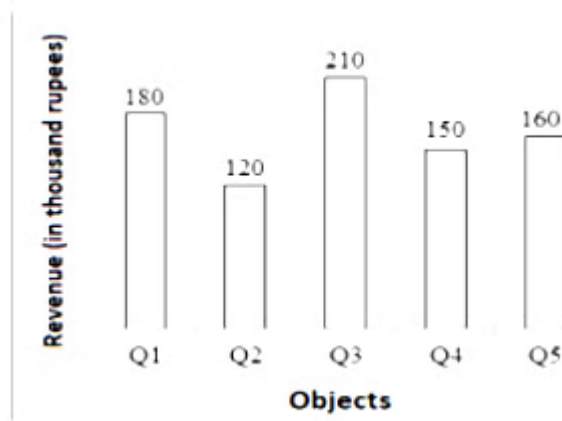
b. 750 m

c. 1250 m

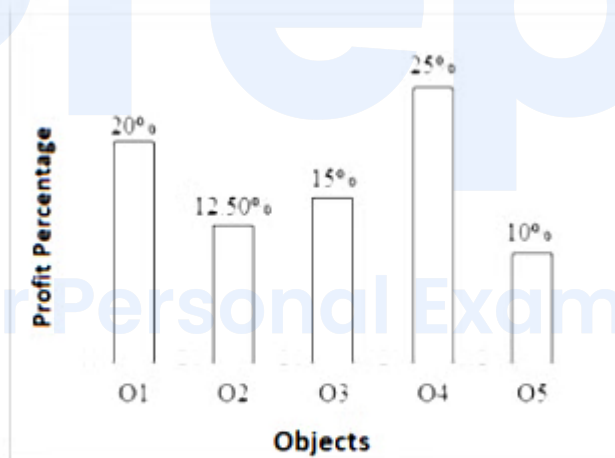
d. 500 m

35. The following bar chart shows the revenue (in thousand rupees) generated from the sale of 5 different objects, O1 to O5.

(+1, -0.25)



The following bar chart shows the profit percentage gained through the sales of these 5 objects.



$$\text{Profit percentage} = \frac{\text{Revenue} - \text{Cost}}{\text{Cost}} \times 100$$

What is the cost incurred in the procurement and sale of O1?

- a. ₹1,40,000
- b. ₹1,60,000
- c. ₹1,50,000

d. ₹1,20,000

---

36. If Chetan's present income is ₹40,000 and it increases by 1% annually, then what will be his income 2 years from now? (+1, -0.25)

a. ₹50,800

b. ₹58,000

c. ₹40,804

d. ₹44,854

---

37.  $A = 7 \times 21 \div 49 - 8 \times 7 \div 16$  and  $B = 12 \div 6 - 3 \times 2 + 5 \times 3$ . What is the value of  $(A \times B)$  (+1, -0.25)

a. -7

b. -4.5

c. -6

d. -5.5

---

38. Aman gave 30% of his monthly income to his father and of the remaining income he gave 30% to his daughter and 25% to his wife. Aman invested the amount of money still remaining from his monthly income equally in three schemes. If he invested ₹42,000 in each scheme, what is Aman's monthly income (in ₹ thousand)? (+1, -0.25)

a. 300

b. 400

- c. 200
- d. 500

39. The following table shows the number of bottles of 6 different colours sold by a shop in a month. (+1, -0.25)

Colour	Bottles
C1	46
C2	34
C3	50
C4	42
C5	28
C6	40

The total number of bottles of C4 and C5 sold in that month is approximately what percentage of the total number of bottles of all the 6 colours taken together sold in that month?

- a. 21.33%
- b. 24.13%
- c. 29.17%
- d. 32.66%

40. The average weight of 20 boxes of oranges is 2 kg , and the average weight of 30 boxes of mangoes is 3 kg . Find the average weight of these boxes of fruits, taken together. (+1, -0.25)

- a. 2.6 kg
  - b. 3.2 kg
  - c. 1.8 kg
  - d. 2.4 kg
- 

41. The lengths of the diagonals of a rhombus are 48 cm and 20 cm. What is the perimeter of the rhombus? (+1, -0.25)

- a. 200 cm
  - b. 120 cm
  - c. 100 cm
  - d. 104 cm
- 

42. A hollow spherical shell is made of a metal of density  $2.5 \text{ g/cm}^3$ . If the external and the internal radii of the given sphere are 35 cm and 14 cm, respectively, find the mass of the shell. [Use  $\pi = \frac{22}{7}$ ] (+1, -0.25)

- a. 398567 g
  - b. 324120 g
  - c. 440040 g
  - d. 420420 g
- 

43. The product of two positive numbers is 240. If the ratio of the two numbers is 3 : 5, then what is the sum of the two numbers? (+1, -0.25)

- a. 46
  - b. 45
  - c. 32
  - d. 42
- 

44. six bells commence tolling together at 7 : 59 am. They toll at intervals of 3, 6, 9, 12 and 15 seconds respectively. How many time will they toll together till 8 : 16 am? (excluding the toll at 7 : 59 am) (+1, -0.25)

- a. 5
  - b. 6
  - c. 3
  - d. 4
- 

45. A person sold a carpet for ₹360 and incurred a loss of 10%. At what price should it have been sold to make a gain of 20%? (+1, -0.25)

- a. ₹400
  - b. ₹390
  - c. ₹480
  - d. ₹420
- 

46. 40 people were employed who could together make 60 toys in 8 hours, but 8 people left just before work was to begin. How many toys could then be made in 12 hours? (+1, -0.25)

- a. 70
  - b. 52
  - c. 60
  - d. 72
- 

47. What is the simple interest on ₹2,000 for 4 years at the rate of 10% per annum? (+1, -0.25)

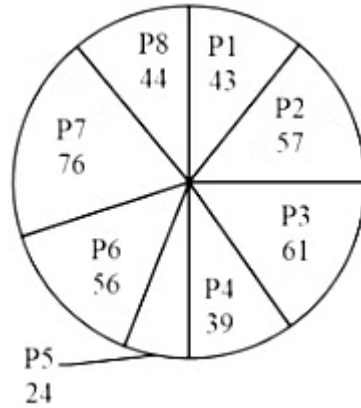
- a. ₹500
  - b. ₹800
  - c. ₹600
  - d. ₹1,000
- 

48. A helmet is sold for ₹1,650 at a profit of 10%. If the selling price is ₹2,100, then what will be the profit percentage? (+1, -0.25)

- a. 30%
  - b. 25%
  - c. 40%
  - d. 60%
- 

49. The following pie chart shows the number of emails (in hundreds) received by 8 different persons, P1 to P8. (+1, -0.25)





P5 and P8 together have received what percentage of the total emails received by these 8 persons taken together?

- a. 19%
- b. 21%
- c. 16%
- d. 17%

50. There are two numbers such that the first number is three times of the second number. If the average of these two numbers is 72, then what is the first number? (+1, -0.25)

- a. 108
- b. 54
- c. 36
- d. 64

## General English

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

The peanut stove, which is so often seen on the \_\_\_\_\_, just outside the fruit-shops, makes us think of the familiar street scene at home.

- a. Runway
- b. Building
- c. Market
- d. Footpath

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

Yesterday, I \_\_\_\_\_ to be on a street with a few modest restaurants.

- a. happened
- b. have happen
- c. am happening
- d. happening

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

You better gird up your loins as we are going to meet my family.

- a. To look smart and charming

- b. To ask for someone's help
  - c. To prepare oneself for a difficult situation
  - d. To earn more money
- 

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

Three hours should be \_\_\_\_\_ to finish the work.

- a. majestic
  - b. voluminous
  - c. sufficient
  - d. grand
- 

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

I walked out \_\_\_\_\_ I wanted to breathe some fresh air.

- a. that
  - b. yet
  - c. but
  - d. because
- 

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)

He knows how bad I wanted a baby.

- a. how badly
  - b. what bad
  - c. No improvement required
  - d. badly how
- 

57. Parts of the following sentence have been given as options. One of them contains an error. Select the part that contains the error from the given options. (+1, -0.25)

The thin wire that giving off light is called the filament.

- a. that giving off
  - b. the filament
  - c. The thin wire
  - d. light is called
- 

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

Many celebrities encourage young children to aspire for greatness.

- a. daunt
  - b. stimulate
  - c. undermine
  - d. abate
-

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

- a. Livelyhood
  - b. Verittable
  - c. Purposfully
  - d. Penetrate
- 

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

Emphatic

- a. Vigorous
  - b. Restrained
  - c. Hesitant
  - d. Moderate
- 

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

An unlikely chance or occurrence, especially a piece of good luck

- a. Pauper
  - b. Messiah
  - c. Fluke
  - d. Masquerade
-

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

I want to enrol myself for this management \_\_\_\_\_.

- a. course
- b. coarse
- c. cause
- d. caws

---

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

The range of flavours is determined by where the plant species is grown and how it is processed.

- a. No substitution required
- b. it was processing
- c. it is processing
- d. it was processed

---

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

An eye opener

- a. A difficult task
- b. A small opening

- c. A shocking revelation
  - d. A tough decision
- 

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

A \_\_\_\_\_ girl is missing from my Colony.

- a. so
  - b. little
  - c. few
  - d. less
- 

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

Obscure

- a. Moody
  - b. Obvious
  - c. Difficult
  - d. Complementary
- 

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

- a. Constituensy
- b. Demoolish
- c. Patranise

d. Propensity

---

68. 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)

I initially thought of including both the mother and the child, but the woman was reluctant to have their pictures take.

- a. both the mother and the child, but the woman
  - b. was reluctant to have their pictures take
  - c. I initially thought of including
  - d. No error
- 

69. 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)

We needing to kept / a close eye on / the rising prices of fuel.

- a. No error
  - b. the rising prices of fuel
  - c. We needing to kept
  - d. a close eye on
- 

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



Farmers are urged to \_\_\_\_\_ to good agricultural practices in the disposal and spreading of agricultural wastes such as slurry.

- a. Adhere
- b. Disturb
- c. Gather
- d. Worship

---

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

In order to fall asleep (1) \_\_\_\_\_ night, strive to turn off all electronic devices at least 30 minutes (2) \_\_\_\_\_ getting into bed. Allow your eyes to relax and take a break from the (3) \_\_\_\_\_ of a lit screen. Read a book, write in a journal, or write (4) \_\_\_\_\_ your to-do list for the (5) \_\_\_\_\_ day.

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

- a. in
- b. into
- c. at
- d. to

---

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

In order to fall asleep (1)\_\_\_\_\_ night, strive to turn off all electronic devices at least 30 minutes (2)\_\_\_\_\_ getting into bed. Allow your eyes to relax and take a break from the (3)\_\_\_\_\_ of a lit screen. Read a book, write in a journal, or write (4)\_\_\_\_\_ your to-do list for the (5)\_\_\_\_\_ day.

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

- a. former
- b. • before
- c. previous
- d. latter

---

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

In order to fall asleep (1)\_\_\_\_\_ night, strive to turn off all electronic devices at least 30 minutes (2)\_\_\_\_\_ getting into bed. Allow your eyes to relax and take a break from the (3)\_\_\_\_\_ of a lit screen. Read a book, write in a journal, or write (4)\_\_\_\_\_ your to-do list for the (5)\_\_\_\_\_ day.

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

- a. stimulation
- b. spark
- c. energy
- d. illustration

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

In order to fall asleep (1) \_\_\_\_\_ night, strive to turn off all electronic devices at least 30 minutes (2) \_\_\_\_\_ getting into bed. Allow your eyes to relax and take a break from the (3) \_\_\_\_\_ of a lit screen. Read a book, write in a journal, or write (4) \_\_\_\_\_ your to-do list for the (5) \_\_\_\_\_ day.

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

- a. on
- b. down
- c. of
- d. onto

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

In order to fall asleep (1) \_\_\_\_\_ night, strive to turn off all electronic devices at least 30 minutes (2) \_\_\_\_\_ getting into bed. Allow your eyes to relax and take a break from the (3) \_\_\_\_\_ of a lit screen. Read a book, write in a journal, or write (4) \_\_\_\_\_ your to-do list for the (5) \_\_\_\_\_ day.

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

- a. present
- b. previous

- c. following
- d. preceding

**prepp**

Your Personal Exams Guide

## General Awareness

76. Who was the Governor-General of India when the permanent settlement was introduced in 1793? (+1, -0.25)

- a. Lord Cornwallis
- b. Warren Hastings
- c. Robert Clive
- d. Thomas Munro

77. Which of the following is/are example(s) of cold-blooded animals? (+1, -0.25)

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

78. The Mahakali Caves are a group of 19 rock cut monuments located in\_\_\_\_\_.

- a. West Bengal
- b. Madhya Pradesh
- c. Tamil Nadu

d. Maharashtra

---

79. Who is the author of the book 'Defending India'?

(+1, -0.25)

a. Atal Bihari Vajpayee

b. Pranab Mukherjee

c. Jaswant Singh

d. Sitaram Yechury

---

80. In which year did Mahatma Gandhi lead a successful mill workers strike in Ahmedabad?

(+1, -0.25)

a. 1919

b. 1916

c. 1918

d. 1917

---

81. How many states and union territories of India did the Census 2011 cover?

(+1, -0.25)

a. 40

b. 45

c. 28

d. 35

---

82. Which of the following rights is NOT a fundamental right under the Indian Constitution? (+1, -0.25)
- a. Right Against Exploitation
  - b. Right to Property
  - c. Right to Equality
  - d. Right to Freedom
- 

83. Which drainage pattern is formed when currents flow in different directions from a central spire or dome-like structure? (+1, -0.25)
- a. Trellis Pattern
  - b. Radial Pattern
  - c. Dendritic pattern
  - d. rectangular pattern
- 

84. 'Maach' is the traditional theatre form of which Indian state? (+1, -0.25)
- a. Karnataka
  - b. Madhya Pradesh
  - c. Nagaland
  - d. Assam
- 

85. Tsomgo Lake is a glacial lake located in which of the following states? (+1, -0.25)
-

- a. Meghalaya
  - b. Punjab
  - c. Sikkim
  - d. Gujarat
- 

86. What chemical element does 'N' stand for in the periodic table? (+1, -0.25)

- a. Neptunium
  - b. Nitrogen
  - c. Neon
  - d. Neodymium
- 

87. Which of the following commissions is mentioned in the Indian Constitution? (+1, -0.25)

- a. Union Public Service Commission
  - b. National Commission for Women
  - c. Competition Commission of India
  - d. National Human Rights Commission
- 

88. With which of the following musical instruments was Pandit Ravi Shankar primarily associated? (+1, -0.25)

- a. Guitar



- b. Flute
  - c. Tabla
  - d. Sitar
- 

89. The longest National Highway is NH44, which runs from Jammu and Kashmir to\_\_\_\_\_ ( +1, -0.25)

- a. Telangana
  - b. Andhra Pradesh
  - c. Tamil Nadu
  - d. Karnataka
- 

90. Who among the following was voted the ICC player of the Month for February 2022 in Men's category? ( +1, -0.25)

- a. Vriitya Arvind
  - b. Shreyas Iyer
  - c. Dipendra Singh Airee
  - d. Virat Kohli
- 

91. Which of the following Indian festivals is celebrated to pay reverence to Lord Jagannath? ( +1, -0.25)

- a. Ratha Yatra
- b. Thrissur Pooram

- c. Hemis
  - d. Losar
- 

92. Vempati Chinna Satyam was known for which classical dance form? (+1, -0.25)

- a. Kuchipudi
  - b. Bihu
  - c. Manipuri
  - d. Odissi
- 

93. \_\_\_\_\_ is the difference between the government's total expenditure and its total receipts, excluding borrowings. (+1, -0.25)

- a. Credit flow
  - b. Debt burden
  - c. Fiscal deficit
  - d. Market equilibrium
- 

94. Who among the following founded the city of Tughlaqabad? (+1, -0.25)

- a. Firoz Shah Tughlaq
- b. Ala-ud-din Khilji
- c. Muhammad bin Tughluq
- d. Ghiyas ud-din Tughluq

95. Which cricket player won the Man of the Series Award for T20I series on Sri Lanka tour of India, 2022? (+1, -0.25)
- a. Rishabh Pant
  - b. Avesh Khan
  - c. Shreyas Iyer
  - d. Mohammad Siraj
- 

96. Who among the following won the BBC Indian Sportswoman of the Year Award 2021? (+1, -0.25)
- a. Lovlina Borgohain
  - b. Mirabai Chanu
  - c. Aditi Ashok
  - d. PV Sindhu
- 

97. Banabhatta was the court poet of \_\_\_\_\_ (+1, -0.25)
- a. Harshavardhana
  - b. Ashoka
  - c. Kumaragupta
  - d. Bindusara
- 

98. Which of the following are the two island neighbours of India? (+1, -0.25)
-

- a. Taiwan and Singapore
  - b. Philippines and Sri Lanka
  - c. New Zealand and Maldives
  - d. Sri Lanka and Maldives
- 

99. When the bread rises and bakes, \_\_\_\_\_ creates thousands of bubbles in the dough. (+1, -0.25)

- a. phosphorus
  - b. nitrogen
  - c. oxygen
  - d. carbon dioxide
- 

100. The \_\_\_\_\_ was presented by Nirmala Sitharaman on 1 February 2022, proposing various changes in the provisions of Income Tax Act, 1961 (the Act). (+1, -0.25)

- a. Appropriation Bill
- b. Finance Bill
- c. Mediation Bill
- d. Indian Antarctic Bill

## Answers

### 1. Answer: b

#### Explanation:

The given equation:  $6 \div 24 + 6 \times 7 - 5 = 29$

we can interchange the signs by options one by one

On interchanging  $\div$  and  $\times$  (Option 1), we get:

$$6 \times 24 + 6 \div 7 - 5 = 29$$

$$\Rightarrow 144 + 0.85 - 5 = 29$$

$$\Rightarrow 139.85 = 29 \text{ (false)}$$

On interchanging  $\div$  and  $+$  (Option 2), we get:

$$6 + 24 \div 6 \times 7 - 5 = 29$$

$$\Rightarrow 34 - 5 = 29$$

$$\Rightarrow 29 = 29 \text{ (true)}$$

Here option 2 is correct so, no need to check the other option.

Thus, the correct answer is option 2.

### 2. Answer: b

#### Explanation:

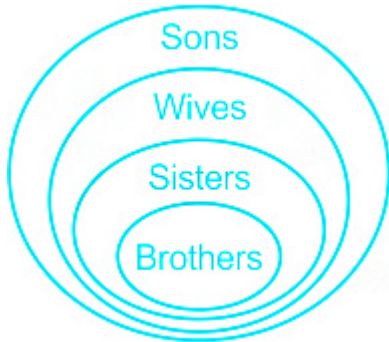
Statements:

All brothers are sisters.

All sisters are wives

All wives are sons.

Venn Diagram:



Conclusions:

1. All brothers are sons -> **True**

2. Some sons are wives -> **True**

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

**Both conclusions I and II are true.**

3. **Answer: c**

## Your Personal Exams Guide

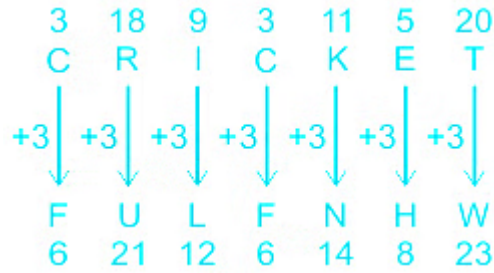
**Explanation:**

The pattern followed here is:

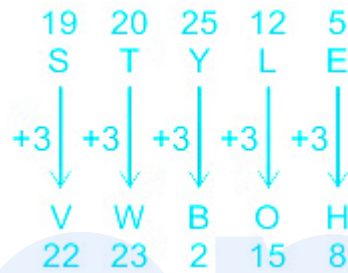
Consonants are coded by reverse positional value and vowels are written in alphabetical order as shown below:

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

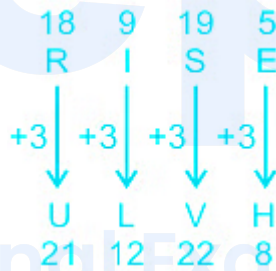
The pattern for this code is as follows,



Similarly,



Similarly,



Similarly,



Hence, GO is coded as JR.

4. Answer: d

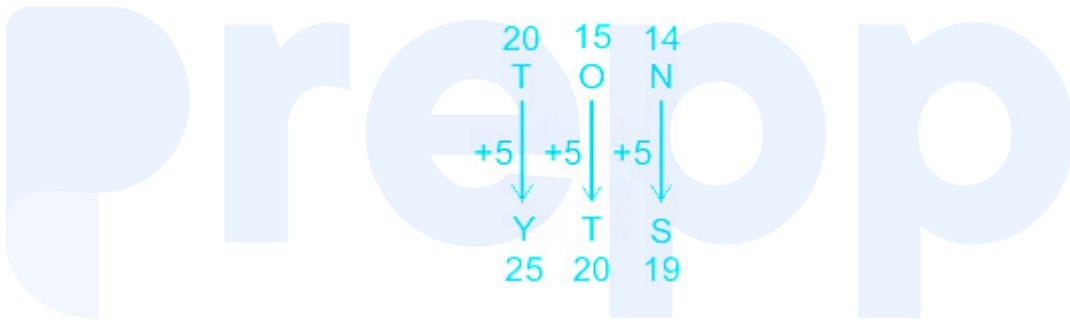
**Explanation:**

The pattern followed here is:

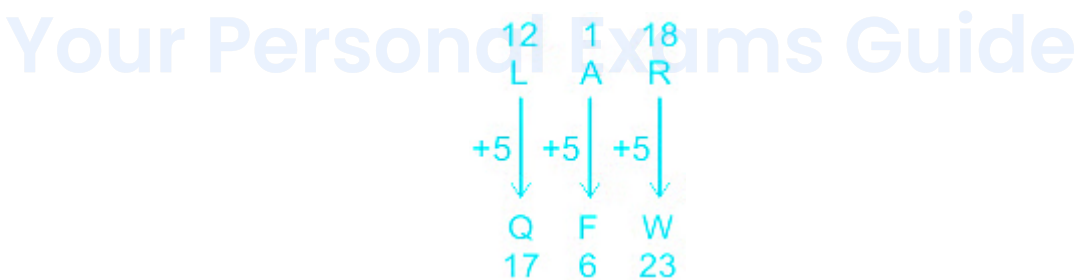
Consonants are coded by reverse positional value and vowels are written in alphabetical order as shown below:

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

The pattern for this code is as follows,



Similarly,



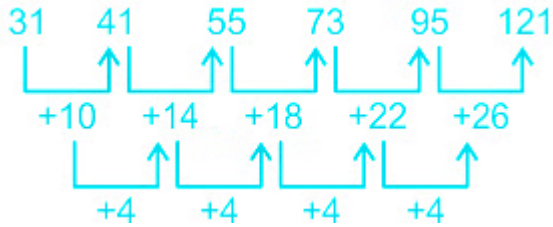
Hence, **LAR** is coded as **QFW**.

**5. Answer: a**

**Explanation:**



The pattern/logic followed here is:



Hence, the correct answer is **121**.

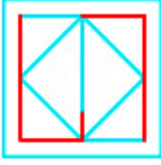





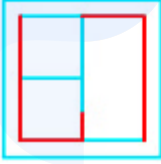

6. Answer: b

Explanation:

The option figure in which image is embedded is:



Your Personal Exams Guide

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

Hence, the correct answer is Option 2.

**7. Answer: b**

**Explanation:**

The logic follows here is:

There are five friends Puneet, Qazir, Raman, Suresh, and Tinku each having different heights.

1) Tinku is shorter than only one friend

⇒  $\_ > \text{Tinku} > \_ > \_ > \_$

2) Raman is the tallest among all the friends

⇒ Raman > Tinku > \_ > \_ > \_

3) Qazir is taller than only one person

⇒ Raman > Tinku > \_ > Qazir > \_

4) Only two person are shorter than Puneet

⇒ Raman > Tinku > Puneet > Qazir > \_

Therefore, the final order of five friends as per their heights is as follows:

⇒ Raman > Tinku > Puneet > Qazir > Suresh

From the above arrangement, it is clear that among all the five friends Suresh is the shortest one.

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

---

8. Answer: a

**Explanation:**

**Statements:**

1. No X is C
2. Some A are C.

**Venn Diagram:**



**Conclusions:**

1. Some C are not X ⇒ **True**

2. Some A are X is a possibility  $\Rightarrow$  **True**

3. All C are A  $\Rightarrow$  **False**

**According**, to the venn diagram, **Only conclusion I and II follow.**

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

**9. Answer: a**

**Explanation:**



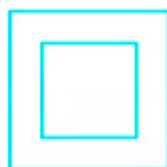
= The first figure is a heptagon with **seven sides**(7)



= The second figure is a hexagon with **six sides**(7-1=6)



= The third figure is a pentagon with **five sides**(6-1=5)



= The forth figure is a square with **four sides**(5-1=4)

Similarly,

The Last figure will have **three side**( $4-1=3$ ) =



Hence , the correct answer is Option 1.

10. **Answer: b**

**Explanation:**

The logic here followed is:

$$16 : 49 \Rightarrow 16 \times 3 + 1 = 49,$$

$$18 : 55 \Rightarrow 18 \times 3 + 1 = 55,$$

In the same way,

$$36 : \mathbf{109} \Rightarrow 36 \times 3 + 1 = \mathbf{109}.$$

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

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11. **Answer: d**

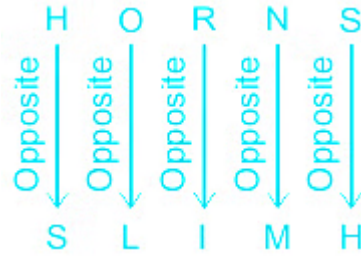
**Explanation:**

The pattern followed here is:

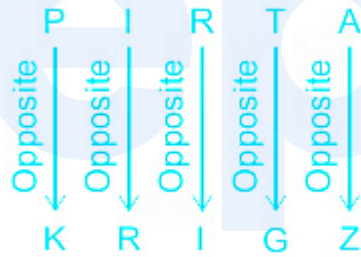
Consonants are coded by reverse positional value and vowels are written in alphabetical order as shown below:

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

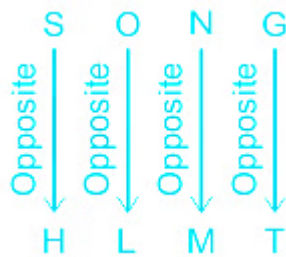
The pattern for this code is as follows,



Similarly,



Similarly,

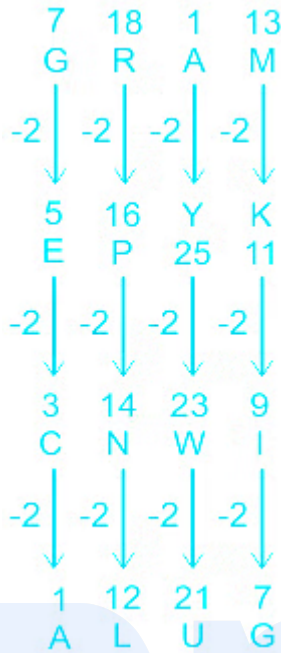


Hence, **HLMT** is the correct answer.

12. Answer: c

Explanation:

The pattern followed is,



Thus, the correct answer is "ALUG".

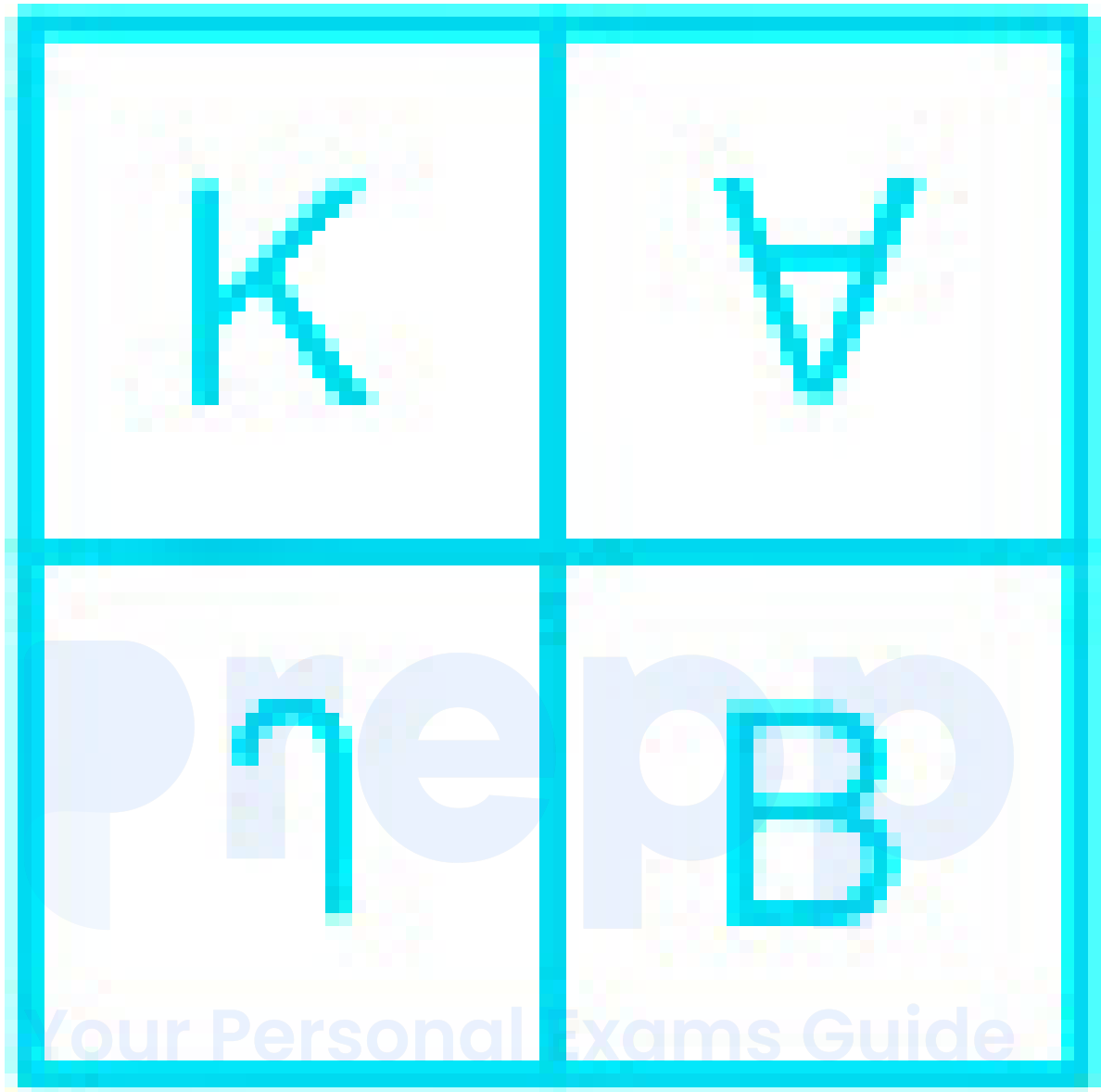
13. Answer: a

**Explanation:**

The pattern follows here is:



1. The letters are traveling in a clockwise direction from 1 to 4.
2. There is an imaginary mirror between 1 & 2, 2 & 3, 3 & 4.
3. Starting from the letter K it goes clockwise.
4. Whenever the letter goes past 1&2, 2&3, and 3&4 it changes to mirror form.
5. The final pattern then formed is:



K	A	J	K	B	L	V	B	K	V
J	B	B	V	V	K	K	L	L	B

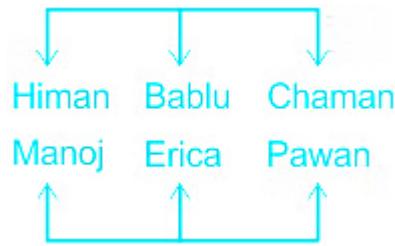
Hence, the correct answer is **option 1**.

14. Answer: a

Explanation:



1. Six friends, Himan, Bablu, Manoj, Erica, Pawan, and Chaman, are sitting in two rows facing each other, with three friends in each row.
2. Himan and Chaman are in the same row but are not neighbors (According to this statement Himan and Chaman are sitting at the end of the row)
3. Bablu sits exactly opposite to Erica
4. Bablu sits to the immediate left of Himan facing south
5. Pawan sits exactly opposite to Chaman.



Hence, **Manoj** sits exactly opposite Himan.

15. Answer: d

Explanation:

First equation is :  $180 - 32 + 3 \times 148 \div 37 = 88$

On interchanging + and  $\times$  , we get:

$$\Rightarrow 180 - 32 \times 3 + \underline{148 \div 37} = 88$$

$$\Rightarrow 180 - \underline{32 \times 3} + 4 = 88$$

$$\Rightarrow \underline{180} - 96 + 4 = 88$$

$$\Rightarrow \underline{184} - 96 = 88$$

$$\Rightarrow \underline{88} = 88 \text{ (True).}$$

Second equation is :  $204 \div 17 \times 23 + 5 - 97 = 50$

On interchanging + and  $\times$  , we get:

$$\Rightarrow 204 \div 17 + 23 \times 5 - 97 = 50$$

$$\Rightarrow 12 + 23 \times 5 - 97 = 50$$

$$\Rightarrow 12 + 115 - 97 = 50$$

$$\Rightarrow 127 - 97 = 50$$

$\Rightarrow 30 \neq 50$  (False) / Second equation is not correct.

Hence, Option 4 is correct answer.

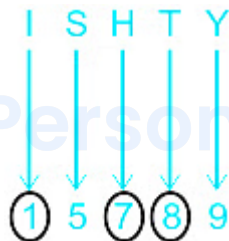
16. Answer: c

Explanation:

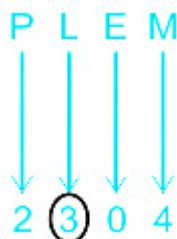
Explanation :

The assigned numbers for each letters are as following:

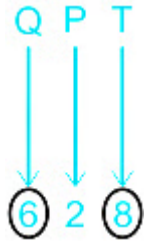
'ISHTY' is written as '15789'



'PLEM' is written as '2304'



'QPT' is written as '628'



'QLHTI' is written as '63781'



Hence, **Option 3)** is the correct answer.

17. **Answer: b**

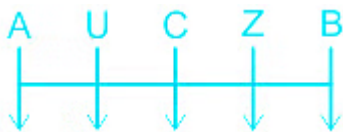
**Explanation:**

Explanation :

- Three girls are sitting to the left of U.
- No one is sitting to the right of A



B is second to the left of C.



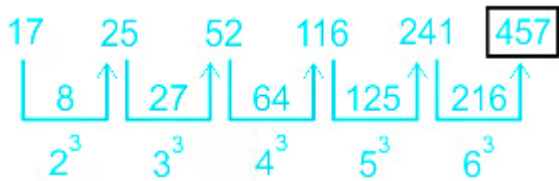
Z is sitting second to the left of U.

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

18. Answer: a

Explanation:

Explanation :



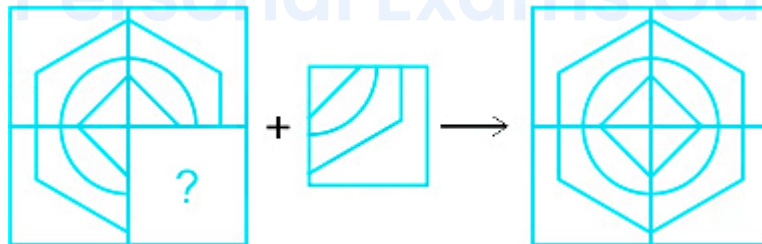
Hence, "457" is the correct answer.

19. Answer: c

Explanation:

Explanation :

The option figure that can replace the question mark (?) in the given figure to complete the pattern is shown below :



Hence, Option 3) is the correct answer.

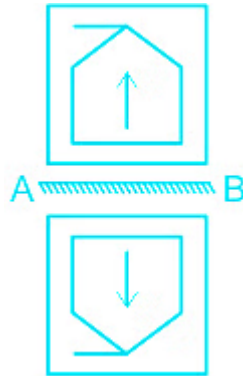
20. Answer: a

Explanation:

Explanation :

In a mirror image left changes to right and the right changes to left vice-versa

The correct mirror image of the given figure when the mirror is placed at AB is



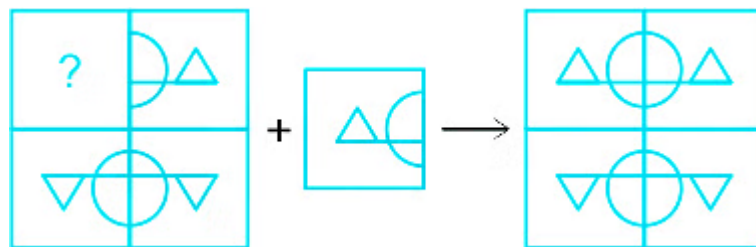
Hence, **Option 1)** is the correct answer.

21. **Answer: a**

**Explanation:**

Explanation :

The option that can replace the question mark (?) in the given figure and complete the pattern when rotation is not allowed is shown below :



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

22. **Answer: c**

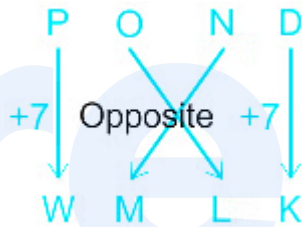
**Explanation:**

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

POND : WMLK

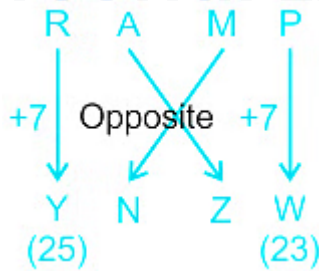
According to the above table



Similarly,

According to the above table

RAMP : KNZI



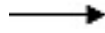
Hence, **Option 3)** is the correct answer.

23. Answer: a

**Explanation:**

Logic: First number - second number = Third number

(68, 46, 22)



$$68 - 46 = 22$$

(242, 160, 82)



$$242 - 160 = 82$$

Only option 1 holds the logic

(108, 75, 33)  $108 - 75 = 33$



Hence, Option 1) is the correct answer.

**24. Answer: c**

**Explanation:**

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

Logic : Letters are coded as opposite alphabet positional value according to above table

'GBTMS' is written as 'HNGYT'

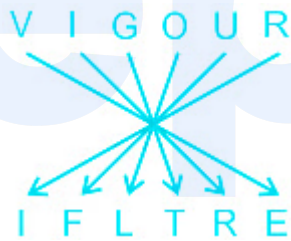


'PONDEK' is written as 'PVWMLK'



Similarly,

'VIGOUR' is written as 'IFLTRE'



Hence, "IFLTRE" is the correct answer.

25. Answer: d

**Explanation:**

Explanation :

Snakes : Reptiles

Snakes are limbless reptiles.

And



Frog : Amphibian

Frogs are Amphibian

Similarly,

Orchid : **Flower**

Orchids are one of the largest genera of flowering plants.

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

---

## 26. Answer: a

### Explanation:

Given:

Principal = ₹ 18000

Rate = 7% per annum

Compound Interest = ₹ 1260

Formula used:

$$A = P \times \left[1 + \frac{R}{100}\right]^T$$

$$A = CI + P$$

Where,

A = Amount

CI = Compound Interest

P = Principal

R = Rate of Interest

T = Time

**Calculation:**

Let's put the values given, in the formula to find the value of T;

$$A = CI + P$$

$$A = 1260 + 18000$$

$$A = ₹19260$$

$$19260 = 18000 \times \left[1 + \frac{7}{100}\right]^T$$

$$19260 = 18000 \times [1.07]^T$$

$$[1.07]^T = \frac{19260}{18000}$$

$$[1.07]^T = 1.07$$

$$[1.07]^T = [1.07]^1$$

$$T = 1$$

Hence, the period of time is 1 year.

---

**27. Answer: b**

**Explanation:**

**Given:**

$$\text{Selling price} = \frac{7}{8} \times \text{Marked Price}$$

$$\text{Profit \%} = 25\%$$

**Formula used:**

$$\text{Profit \%} = \frac{\text{Profit}}{\text{Cost Price}} \times 100$$

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

**Calculation:**

Let,

M = Marked Price

C = Cost Price

Now, let's put the values in the formula,

$$25 = \frac{\frac{7}{8}M - C}{C} \times 100$$

$$\frac{25}{100} = \frac{7M - 8C}{8C}$$

$$\frac{1}{4} = \frac{7M - 8C}{8C}$$

$$2C = 7M - 8C$$

$$10C = 7M$$

$$C = 0.7M$$

Now, the percent more in the marked price than the cost price-

$$= \frac{M - C}{C} \times 100$$

$$= \frac{M - 0.7M}{0.7M} \times 100$$

$$= \frac{0.3M}{0.7M} \times 100$$

$$= \frac{300}{7}$$

$$= 42.86\%$$

Hence, at 42.86% more than the cost price, the marked price of the watch has been fixed.

**28. Answer: d**

**Explanation:**

Given:

$$n = 15$$

$$d = 2$$

Formula:

To find nth term in Arithmetic Progression (A.P.)

$$a_n = a + (n - 1)d$$

Where,  $a_n = n^{\text{th}}$  term or largest term of an A.P.

$a$  = first term or smallest term of A.P.

$n$  = total number of terms in A.P.

$d$  = common difference between two consecutive terms of A.P.

**Calculation:**

Smallest number =  $a$

Largest number =  $a_n$

Now,

Difference =  $a_n - a$

$$\Rightarrow a + (n - 1)d - a$$

Putting values in the above, we get,

$$= (15 - 1)2$$

$$= 14 \times 2$$

$$= 28$$

Hence, the difference is 28.

---

29. **Answer: c**

**Explanation:**

Given:

Speed from point A to B ( $S_1$ ) = 40 km / h

Speed from point B to A ( $S_2$ ) = 55 km / h

**Formula Used:**

$$\text{Approximate average Speed} = \frac{2 \times S_1 \times S_2}{S_1 + S_2}$$

**Calculation:**

Let's put the given values in the formula to get the approximate average speed,

$$= \frac{2 \times 40 \times 55}{40 + 55}$$

$$= \frac{4400}{95}$$

$$= 46.32 \text{ km / h}$$

Hence, the approximate average speed for the whole journey is 46.32 km / h.

---

30. **Answer: c**

**Explanation:**

**Given:**

A can do work in 10 days

B can do work in 20 days

C can do work in 30 days

**Formula used:**

Work done = Time taken  $\times$  Efficiency

$$\text{Time taken} \propto \frac{1}{\text{Efficiency}}$$

**Calculation:**

The efficiency of A is  $\frac{1}{10}$

The efficiency of B is  $\frac{1}{20}$

The efficiency of C is  $\frac{1}{30}$

1st day work by A =  $\frac{1}{10}$

2nd day work by A =  $\frac{1}{10}$

3rd day work by A + B + C =  $\frac{1}{10} + \frac{1}{20} + \frac{1}{30}$

$$\Rightarrow \frac{(6+3+2)}{60} = \frac{11}{60}$$

Work completed in 3 days

$$\Rightarrow \frac{1}{10} + \frac{1}{10} + \frac{11}{60} = \frac{23}{60}$$

In 6 days work completed is  $\frac{46}{60}$

Hence, the remaining work =  $1 - \frac{46}{60} = \frac{14}{60}$

In the next 2 days, A can complete  $\frac{1}{5}$  work but,  $\frac{14}{60}$  part of the work is remaining

Now, for 9th day only  $(\frac{14}{60} - \frac{1}{5}) = \frac{1}{30}$  work is remaining

Hence, time required is =  $\frac{1}{30} \times \frac{60}{11} = \frac{2}{11}$

Time is taken to complete the work

$$\Rightarrow 8 + \frac{2}{11} = 8\frac{2}{11}$$

$\therefore$  In  $8\frac{2}{11}$  days the work will be completed.

**31. Answer: d**

**Explanation:**

Given:

The perimeter of a rectangle is 40 cm. If its breadth is 8 cm.

Formula used:

$$\text{Perimeter of a rectangle} = 2(\text{length} + \text{breadth})$$

Calculation:

Let the length of the rectangle be  $l$ .

$$\text{Perimeter of the rectangle} = 2(8 + l) = 40$$

$$l = 20 - 8 = 12 \text{ cm}$$

$\therefore$  The difference between the length and breadth of the rectangle is  $12 - 8 = 4 \text{ cm}$

32. Answer: d

Explanation:

Concept used:

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

Calculation:

$$\Rightarrow \frac{\left[\left(\frac{5}{7} \text{ of } \frac{1}{12} \times \frac{1}{4} - \frac{1}{2} \times \frac{1}{8}\right) + \frac{5}{4} \times \frac{8}{15} - \frac{2}{3}\right]}{\frac{1}{2} \div \frac{1}{4} + \frac{1}{2}}$$

$$\Rightarrow \frac{\left(\frac{5}{336} - \frac{1}{16}\right) + \frac{2}{3} - \frac{2}{3}}{2 + \frac{1}{2}}$$

$$\Rightarrow \frac{5-21}{\frac{336}{\frac{5}{2}}}$$

$$\Rightarrow \frac{-16}{\frac{336}{\frac{5}{2}}}$$

$$\Rightarrow -\frac{16}{336} \times \frac{2}{5}$$

$$\Rightarrow -\frac{2}{105}$$

The value is  $-\frac{2}{105}$ .

$\therefore$  The Correct Answer is  $-\frac{2}{105}$

---

**33. Answer: c**

**Explanation:**

Given:

$$A : B = 5 : 4, B : C = 6 : 5, C : D = 7 : 10$$

Formula used:

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

Calculation:

$$\text{The value of } \frac{A}{B} \times \frac{B}{C} \times \frac{C}{D} = \frac{5}{4} \times \frac{6}{5} \times \frac{7}{10} = \frac{21}{20}$$

$\therefore$  The value of A : D is 21 : 20

---

**34. Answer: d**

**Explanation:**

Given:



A 750 metres long train crosses a stationary pole in 15 sec. Travelling at the same speed, this train crosses a bridge completely in 25 sec.

**Formula used:**

$$\text{Speed} = \frac{\text{distance}}{\text{time}}$$

**Calculation:**

$$\text{Speed of the train} = \frac{750}{15} = 50 \text{ m/s}$$

$$\text{Length of the bridge} = 50 \times 25 - 750 = 1250 - 750 = 500 \text{ m}$$

$\therefore$  The length of the bridge is 500 m.

---

**35. Answer: c**

**Explanation:**

**Given:**

Bar charts showing the revenue (in thousand rupees) generated and profit earned from the sale of 5 different objects is given.

**Formula used:**

$$\text{Profit percentage} = \frac{\text{revenue} - \text{cost}}{\text{cost}} \times 100$$

**Calculation:**

Let the cost incurred for O1 be x.

$$\text{Then, } 20 = \frac{180000 - x}{x} \times 100$$

Solving for x,

$$0.2 = \frac{180000}{x} - 1$$

$$x = \frac{180000}{1.2} = 150000$$

$\therefore$  The cost incurred in the procurement and sale of O1 is Rs. 150000.

36. Answer: c

**Explanation:**

Given:

Chetan's present income is ₹40,000

It increases by 1% annually

Time = 2 years

Concept used:

$$\text{Amount} = P(1 + R\%)^T$$

Calculations:

According to the question,

$$\text{Amount} = 40000(1 + 1\%)^2$$

$$\Rightarrow A = 40000(1 + 0.01)^2$$

$$\Rightarrow A = 40000(1.01)^2$$

$$\Rightarrow A = 40000(1.0201) = ₹40804$$

∴ His income 2 years from now will be ₹40804.

---

37. Answer: d

**Explanation:**

Given:

$$A = 7 \times 21 \div 49 - 8 \times 7 \div 16$$

$$B = 12 \div 6 - 3 \times 2 + 5 \times 3.$$

**Calculations:**

According to the question,

$$(A \times B) = (7 \times 21 \div 49 - 8 \times 7 \div 16) \times (12 \div 6 - 3 \times 2 + 5 \times 3)$$

$$\Rightarrow (A \times B) = \left(3 - \frac{7}{2}\right) \times (2 - 6 + 15)$$

$$\Rightarrow (A \times B) = \frac{(6-7)}{2} \times (-4 + 15)$$

$$\Rightarrow (A \times B) = -\frac{1}{2} \times 11$$

$$\Rightarrow (A \times B) = -5.5$$

$\therefore$  The value of  $(A \times B)$  is  $-5.5$ .

---

**38. Answer: b**

**Explanation:**

**Given:**

Aman gave 30% of his monthly income to his father

From remaining income he gave 30% to his daughter and 25% to his wife.

Aman invested the amount of money still remaining from his monthly income equally in three schemes.

He invested ₹42,000 in each scheme

**Calculations:**

Let the income of Aman be 'x'

Amount given to his father = 30% of x = 0.30x

Amount remaining = x - 0.30x = 0.70x

Amount given to his daughter = 30% of  $0.70x = 0.30 \times 0.70x = 0.21x$

Amount given to his wife = 25% of  $0.70x = 0.25 \times 0.70x = 0.175x$

Amount remaining =  $0.70x - (0.21x + 0.175x) = 0.70 - 0.385 = 0.315x$

Amount invested in schemes =  $3 \times 42000$

$$\Rightarrow 0.315x = 126000$$

$$\Rightarrow x = \frac{126000}{0.315} = ₹400000$$

$\therefore$  Income of Aman is ₹400000.

### 39. Answer: c

#### Explanation:

Given:

The following table shows the number of bottles of 6 different colours sold by a shop in a month.

Colour	Bottles
C1	46
C2	34
C3	50
C4	42
C5	28
C6	40

Formula Used:

$$\text{Percentage} = \frac{\text{Value}}{\text{Total value}} \times 100$$

**Calculation:**

Total number of bottles of all the 6 colours sold in 1 month =  $46 + 34 + 50 + 42 + 28 + 40 = 240$

The total number of bottles of C4 and C5 sold in 1 month =  $42 + 28 = 70$

According to the question,

$$\text{Percentage} = \frac{70}{240} \times 100$$

$$\Rightarrow P = 0.2916 \times 100 = 29.16 \sim 29.17\%$$

$\therefore$  The total number of bottles of C4 and C5 sold in 1 month is approximately 29.17% percentage of the total number of bottles of all the 6 colours sold in that month.

---

**40. Answer: a**

**Explanation:**

**Given:**

The average weight of 20 boxes of oranges is 2 kg

The average weight of 30 boxes of mangoes is 3 kg .

**Concept used:**

$$\text{Average value} = \frac{\text{Sum of values}}{\text{Total values}}$$

**Calculation:**

Total weight of boxes of Orange =  $20 \times 2 = 40$  kg

Total weight of boxes of Mango =  $30 \times 3 = 90$  kg

Total no. of boxes =  $30 + 20 = 50$

According to the question,

Average weight of all the fruits,

$$\Rightarrow \text{Average} = \frac{(90+40)}{50}$$

$$\Rightarrow \text{Average} = \frac{130}{50} = 2.6 \text{ kg}$$

$\therefore$  The average weight of these boxes of fruits is 2.6 kg.

#### 41. Answer: d

#### Explanation:

Given:

Diagonals of Rhombus = 48 cm and 20 cm

Concept used:

Perimeter of rhombus =  $4a$

$$a = \frac{\sqrt{(p^2+q^2)}}{2}$$

Where,  $a$  = side of the rhombus

$p, q$  = diagonals of rhombus

Calculation:

$$\text{Side} = \frac{\sqrt{(48^2+20^2)}}{2}$$

$$\Rightarrow a = \frac{\sqrt{(2304+400)}}{2}$$

$$\Rightarrow a = \frac{\sqrt{2704}}{2}$$

$$\Rightarrow a = \frac{52}{2} = 26 \text{ cm}$$

Perimeter of rhombus =  $4 \times (26) = 104 \text{ cm}$

$\therefore$  The perimeter of the rhombus is 104 cm.

42. Answer: d

**Explanation:**

**Given:**

$$\text{Density} = 2.5 \text{ g/cm}^3$$

$$\text{Inner Radius (r)} = 14 \text{ cm}$$

$$\text{Outer Radius (R)} = 35 \text{ cm}$$

**Formula used:**

$$\text{Volume of hollow sphere} = \frac{4}{3} \pi (R^3 - r^3)$$

$$\text{Volume} = \frac{\text{Mass}}{\text{Density}}$$

**Calculation:**

According to the question,

$$\text{Volume} = \frac{4}{3} \pi (35^3 - 14^3)$$

$$\Rightarrow \frac{\text{Mass}}{\text{Density}} = \left(\frac{4}{3}\right) \times \left(\frac{22}{7}\right) \times (42875 - 2744)$$

$$\Rightarrow \text{Mass} = 2.5 \times \left[\left(\frac{4}{3}\right) \times \left(\frac{22}{7}\right) \times (40131)\right]$$

$$\Rightarrow \text{Mass} = 2.5 \times [(4) \times (22) \times (1911)]$$

$$\Rightarrow \text{Mass} = 2.5 \times 168168 = 420420 \text{ g}$$

∴ The mass of the shell is 420420 g.

43. Answer: c

**Explanation:**

**Given:**

The product of two positive numbers is 240.

The ratio of the two numbers is 3 : 5

**Calculation:**

Let us consider a common number related to the ratio to be  $x$

We know that,

$$(3x \times 5x) = 240$$

$$\Rightarrow 15x^2 = 240$$

$$\Rightarrow x^2 = 16$$

$$\Rightarrow x = 4$$

According to the question,

$$\text{First number is} = 3x = 3 \times 4 = 12$$

$$\text{Second number is} = 5x = 5 \times 4 = 20$$

$$\text{Sum of numbers} = 12 + 20 = 32$$

$\therefore$  The sum of the two numbers is 32.

---

#### 44. Answer: a

**Explanation:**

**Given:**

Six bells commence tolling together at 7 : 59 am

Toll intervals of 3, 6, 9, 12, and 15 seconds respectively.



**Concept used:**

Least Common Multiple (LCM)

**Calculation:**

A least common multiple of (3, 6, 9, 12, and 15) =  $2 \times 2 \times 3 \times 3 \times 5 = 180$  sec

Bells ring together after every 180 sec

Required number of times in 17 minutes (17 × 60 seconds)

$$\Rightarrow \text{Number of times they toll together} = \frac{(17 \times 60)}{180}$$

$$\Rightarrow \text{Number of times they toll together} = \frac{1020}{180} = 5.7 \sim 5$$

This is approximated as 5 bells will not ring in fractions and, it will take some more time to bell 6<sup>th</sup> ring.

$\therefore$  They toll together 5 times in 17 minutes.

---

**45. Answer: c**

**Explanation:**

**Given:**

The selling price of the product = ₹360

Loss = 10%

**Formulae Used:**

If an article is sold at a loss of  $a\%$ , then the Selling Price (SP) is:

$$SP = \left[ \frac{(100-a)}{100} \right] \times CP$$

Similarly, if an article is sold at a profit of  $a\%$ , then the Selling Price is:

$$SP = \left[ \frac{(100+a)}{100} \right] \times CP$$

Calculation:

For a loss of 10%,

$$\Rightarrow 360 = \left[ \frac{(100-10)}{100} \right] \times CP$$

$$\Rightarrow 360 = 0.9 \times CP$$

$$\Rightarrow CP = \frac{360}{0.9} = ₹ 400$$

For a profit of 20%, the SP becomes:

$$\Rightarrow SP = \left[ \frac{(100+20)}{100} \right] \times 400$$

$$\Rightarrow SP = 1.20 \times 400 = 480$$

∴ The Selling Price of the article will be ₹480.

---

46. Answer: d

Explanation:

Given:

40 men can make 60 toys in 8 hours

Calculations:

$$1 \text{ men can make toys in 8 hours} = \frac{60}{40} = \frac{3}{2} \text{ toys}$$

$$32 \text{ men can make toys in 8 hours} = 32 \times \left( \frac{3}{2} \right) = 48 \text{ toys}$$

$$32 \text{ men can make toys in 1 hours} = \frac{48}{8} = 6 \text{ toys}$$

$$32 \text{ men can make toys in 12 hours} = 12 \times 6 = 72 \text{ toys.}$$

∴ 32 men can make 72 toys in 12 hours.

**47. Answer: b**

**Explanation:**

Given:

Principle = ₹2000

Time = 4 years

Rate = 10%

**Formula used:**

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

**Calculation:**

According to the question,

$$\Rightarrow \text{SI} = \frac{(2000 \times 10 \times 4)}{100}$$

$$\Rightarrow \text{SI} = \frac{80000}{100} = ₹800$$

∴ The simple interest is ₹800.

**48. Answer: c**

**Explanation:**

Given:

Selling Price = ₹1650

Profit% = 10%

**Formula used:**

$$\text{Selling Price} = \text{Cost Price} \times (1 + \text{Profit}\%)$$

**Calculations:**

We know that

$$1650 = \text{Cost Price} \times (1 + 10\%)$$

$$\Rightarrow \text{Cost Price} = \frac{1650}{(1+0.1)}$$

$$\Rightarrow \text{CP} = \frac{1650}{1.10} = ₹ 1500$$

According to the question,

$$2100 = 1500 \times (1 + \text{Profit}\%)$$

$$\Rightarrow 1 + \text{Profit}\% = \frac{2100}{1500}$$

$$\Rightarrow \text{Profit}\% = \frac{7}{5} - 1$$

$$\Rightarrow \text{Profit} = \frac{2}{5} \times 100 = 40\%$$

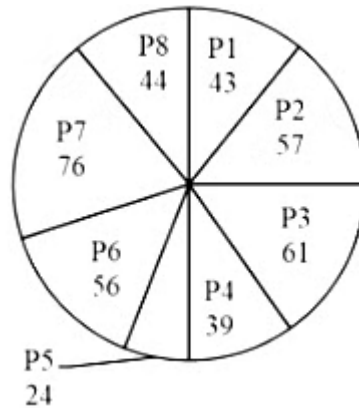
$\therefore$  The profit percentage will be 40%.

49. Answer: d

**Explanation:**

**Given:**

The following pie chart shows the number of emails (in hundreds) received by 8 different persons, P1 to P8.



**Formula Used:**

$$\text{Percentage} = \frac{\text{Value}}{\text{Total value}} \times 100$$

**Calculations:**

$$\text{Total no. of emails} = 43 + 57 + 61 + 39 + 24 + 56 + 76 + 44 = 400$$

$$\text{Total emails of P5 and P8} = 44 + 24 = 68$$

According to the question,

$$\text{Percentage} = \frac{68}{400} \times 100$$

$$\Rightarrow P = 0.17 \times 100 = 17\%$$

$\therefore$  P5 and P8 together have received 17% of total emails.

**50. Answer: a**

**Explanation:**

**Given:**

The first number is three times of the second number

The average of these two numbers is 72

**Calculation:**

Let the 1<sup>st</sup> no. be 'x' and 2<sup>nd</sup> no. be 'y' then

$$\Rightarrow x = 3y$$

According to the question,

$$72 = \frac{(x+y)}{2}$$

$$\Rightarrow 72 = \frac{(3y+y)}{2}$$

$$\Rightarrow 4y = 144$$

$$\Rightarrow y = \frac{144}{4} = 36$$

Since,  $x = 3y$  then

$$\Rightarrow x = 3 \times 36 = 108$$

$\therefore$  The first number is 108.

---

51. Answer: d

**Explanation:**

The correct answer is Footpath.

★ Key Points

- The above sentence is talking about **the peanut stove which can be often seen on footpaths**, as the peanut vendors are mostly sitting on the footpath and selling the peanuts.
- The **peanut stove is made up of mud** and it is easy to form on footpaths. Hence, the correct answer of **option 4) footpath**.

★ Additional Information

- **Runways** are '*hardgrounds where airplanes land, it is not possible for a peanut vendor to be there*'.

- **Building** is 'a residential place so peanut vendors are also not allowed to be there.'
- **Market** is 'a place where people buy various things' so it might be possible for people to buy peanuts from there but they won't find a peanut stove there as it requires quite a large space.

52. Answer: a

**Explanation:**

The correct answer is happened.

★ Key Points

- The above sentence is of **past simple tense**.
- The sentence formation for past simple tense is **the second form of the verb (happen - happened)**, which perfectly completes the above given sentence.
- Hence option 1) **happened** is the answer.

★ Additional Information

Tenses Chart

Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence



Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

53. Answer: c

**Explanation:**

The correct answer is To prepare oneself for a difficult situation.

★ Key Points

- The meaning of this phrase is “getting ready for a difficult or challenging situation”.
- This phrase is used when **someone has to face any difficult situation and he/she should be prepared for that.**
- The meaning of the above sentence is that **someone is going to meet my family and he/she should prepare him/her for that difficult situation.**

★ Additional Information

Some more phrases are:

- **Dodged a bullet** – to escape a difficult situation.

**Example :** I really **dodged the bullet** when my exam was rescheduled for the next week because I hadn't prepared for it at all.

- **The crux of the matter** - The root, central or a critical point of a problem/situation

**Example :** The last 3 minutes of the seminar had **the crux of the matter**.

- **In dire straits** - In a terrible or critical situation.

**Example :** The recent stock market crash has left several companies **in dire straits**.

---

**54. Answer: c**

**Explanation:**

The correct answer is Sufficient

★ Key Points

- The above blank should be filled with appropriate **Adjective**.
- The word "**Sufficient**" means *as much as is required; adequate*.
- The meaning of option 3 perfectly makes sense of the sentence after filling in the blank. **Hence, Option 3 is the correct answer.**

★ Additional Information

- The word "**Majestic**" means *intriguing due to its size or beauty*.
- The word "**Voluminous**" means *extremely large*.
- The word "**Grand**" means *incredible, huge, or significant*.

---

**55. Answer: d**

**Explanation:**

The correct answer is Because

★ Key Points

- The meaning of the word "**because**" is *for the reason that*.
- Because is a **subordinating conjunction** which is used to *connect two sentences or to join subordinate clauses with independent clauses*.
- In the above sentence, the words prior to the blank are trying to explain that "**I walked out**", while the words after the blank are '**giving the reason why I walked out of the room.**'

★ Additional Information

- "**But**" is a conjunction which is *used to introduce a concept that differs or contrasts with what has just been expressed*.
- "**That**" is a determiner, pronoun, conjunction, adverb which is *used to relate to a subject, specifically when the subject is distant from the speaker*.
- "**Yet**" is an adverb, conjunction which is *used with negative verbs or in questions to discuss an event that has not yet occurred but that you anticipate will occur*

---

56. Answer: a

**Explanation:**

The correct answer is how badly.

★ Key Points

- The above sentence is in **simple past tense** and the sentence formation for it is - **Subject + Verb + ed (wanted) / verb in the past tense + the rest of the sentence.**
- **Badly** is an adverb (a word that describes a verb, an adjective, another adverb, or even an entire sentence), here *badly is used to describe WANTED.*
- **Bad** is an adjective which is used to modify a noun (baby) but it is not working with the tense of the sentence here. **Hence the correct answer is option 1) how badly**

★ Additional Information

Tenses Chart

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Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

57. Answer: a

**Explanation:**

The correct answer is that giving off.

★ Key Points

- The above given sentence is in **simple present tense**, the rule for which is **Subject + Verb in the base form/third person plural form + the rest of the sentence**. Therefore the sentence should be *"The thin wire that gives off light is called the filament."*
- Hence the **correct answer is option 1) that giving off**

★ Additional Information

Tenses Chart

Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
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Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

58. Answer: b

**Explanation:**

The correct answer is Stimulate

★ Key Points

- **SYNOYNM** is a word a phrase or word with the same or well almost the same meaning as another phrase or word.
- The word "**Encourage**" means *to give someone hope, support, or confidence.*
- The word "**Stimulate**" means *to pique someone's interest and excitement in something.*
- The meaning of Option B, *Stimulate* is similar to the meaning of word *Encourage*. Hence, Option B is the answer.

★ Additional Information

- The word "**Daunt**" means *to terrify or concern someone due to being too large or difficult.*
- The word "**Undermine**" means *to make something less strong.*
- The word "**abate**" means *to deteriorate in strength.*



59. Answer: d

**Explanation:**

The correct answer is Penetrate

★ Key Points

- The word "**Penetrate**" means to enter or pass through something, especially when it is tough.
- All the other spellings are wrong hence option 4) Penetrate is correct.

★ Additional Information

- The correct spelling of livelyhood is a livelihood .
  - The correct spelling of verittable is veritable.
  - The correct spelling of purposfully is purposefully.
- 

60. Answer: a

**Explanation:**

The correct answer is Vigorous

★ Key Points

- *SYNONYM* is a phrase or word with the same or well almost the same meaning as another phrase or word.
- The word "**Emphatic**" means *something said or expressed strongly* .
- The word "**Vigorous**" means *something strong* .
- The meaning of Option A, *Vigorous is similar to the meaning of the word Emphatic* . Hence **Option A, Vigorous is the answer**.

★ Additional Information

- The word "**Restrained**" means *not expressing strong emotions*.
  - The word "**Hesitant**" means *Because you are uncertain, you are slow to speak or act*.
  - The word "**Moderate**" means *medium, neither too less nor too much*.
- 

61. Answer: c

**Explanation:**

The correct answer is Fluke

★ Key Points

- The word "Fluke" is a noun.
- The meaning of word "**Fluke**" is a surprising and fortunate outcome that occurs by chance rather than as a result of your cleverness or skill.
- Examples: I heard she scored more just due to **fluke**.

★ Additional Information

- The word "**Pauper**" is a noun which means a very poor person.

Example: The **pauper** had no money and was hungry since past few weeks.

- The word "**Messiah**" is a noun which means person who is expected to save the people.

Example : They thought that the new head girl was the **messiah** the school had been hoping for.

- The word "Masquerade" is a noun which means a way of acting that conceals the true feelings.

Example : He tried really hard to keep **masquerade** on.

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62. Answer: a

## Explanation:

The correct answer is course

### ★ Key Points

- The word "**Course**" is a noun which means *a series of lessons or study guide*.  
Example : I want to take a German **course**.
- There is an another meaning of word "**course**" i.e., *a path or direction taken by any traveler or mode of transportation*. Examples: Napoleon directed the **course** of battle.

### ★ Additional Information

- The word "**cause**" is a noun which also have two meanings

*Reason for feeling or behaving in a particular way*, Ex - The cops have no idea what **caused** the accident.

*Something or someone who cause something to happen*. Ex - The doctor assured us there was no **cause** of concern.

- The word "**caws**" is a noun which means a *hard , rough sound created by a crow*. Ex - The crows are **cawing** very loudly today.
- The word "**coarse**" is an adjective which means *made up of large pieces; rough; not smooth*. Ex - This dal contains very **coarse** grains.

---

## 63. Answer: a

## Explanation:

The correct answer is No substitution required

### ★ Key Points

- As the sentence is in **Present continuous tense** and the sentence formation for it is **is/am/are + ing**.

- The underlined segment is correct as it is of present continuous tense, therefore *the correct answers is no substitution required.*

★ Additional Information

Tenses Chart

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Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

64. Answer: c

**Explanation:**

The correct answer is A shocking revelation

★ Key Points

- The meaning of the above idiom is **something that reveals truth about something**.
- When someone describes something as an eye opener, it means that it surprises them and teaches them something new.
- Examples : Last year was really **an eye opener** for me, Travelling around the city was **an eye opener** for me.

★ Additional Information

Some more idioms are :

- **Under the weather** - to feel ill, Ex - I am feeling a bit **under the weather** today.
- **Spill the beans** - To share a secret, Ex - Marry spilled the beans in whole campus.

- Through thick and thin – to stay loyal in every condition, Ex – I will always love you t hrough thick and thin .
- 

65. Answer: b

**Explanation:**

The correct answer is little

★ Key Points

- The above blank should be filled with an **adjective** .
- An adjective is *a word that describes more information about noun* . Ex- small, huge, few, beautiful.
- The above sentence is talking about a girl that is missing from colony , a girl cannot be few, less or so. But a girl can be little, **Hence the correct answer is little.**

★ Additional Information

- Adverb is a word that adds more information in a sentence to a verb , an adjective or another verb. Ex- quickly, slowly, extremely, rarely
- Some sentences with adverbs are :

She is **generally** late, She reads **only** good books, The mother was **weeping** bitterly, I am **too** excited for dance.

---

66. Answer: b

**Explanation:**

The correct answer is **Obvious**.

★ Key Points

- The meaning of **Obscure** is not clear and the meaning of **Obvious** is **clear and evident** . So, Obvious is the correct antonym of Obscure. **Example:** When we got to the house we entered an obscure corridor and began to find our way up a dark and narrow staircase.

★ Additional Information

- **Synonyms of Complementary:** Integral, Equivalent, Interdependent, Reciprocal.
- **Antonyms of Complementary:** Different, Dissimilar, Unrelated, Independent.
- **Synonyms of Moody:** Dismal, Gloomy, Irritable, Doleful.
- **Antonyms of Moody:** Cheerful, Happy, Balanced, Overjoyed.
- **Synonyms of Difficult:** Arduous, Severe, Strenuous, Tough.
- **Antonyms of Difficult:** Easy, Effortless, Uncomplicated, Calm.
- **Synonyms of Obscure:** Ambiguous, Concealed, Doubtful, Opaque.
- **Antonyms of Obscure:** Obvious, Evident, Clear, Obvious.
- **Synonyms of Obvious:** Accessible, Clear, Evident, Palpable.
- **Antonyms of Obvious:** Dubious, Concealed, Obscure, Hidden.

---

67. Answer: d

**Explanation:**

The correct answer is **Propensity**.

★ Key Points

- The correct spelling is Propensity.
- The **meaning of Propensity is leaning, penchant and proclivity.**

★ Additional Information

- The correct spelling is **Constituency** . The meaning of Constituency is Voting area.
- The correct spelling is **Demolish** . The meaning of **Demolish** is **Destroy and Annihilate** .



- The correct spelling is **Patronise** . The meaning of **Patronise** is **Favor** .

68. Answer: b

**Explanation:**

The correct answer is—**was reluctant to have their pictures take** .

★ Key Points

- The error lies in **last part** of the sentence.
- **Perfect participles** are formed by combining any past participle—including had—with the word having.

*Examples : having asked, having broken, having grown, having placed, having told, having worn.*

- Therefore, the use of '**was reluctant to have their pictures take**' in the last part should be replaced with '**was reluctant to have their pictures taken**'.
- **Correct sentence** : I initially thought of including both the mother and the child, but the woman was reluctant to have their pictures taken.

★ Additional Information

- Use of **Present Participle** : A present participle is the -ing form of a verb when it is used as an adjective. **Note**: a present participle is different from a gerund, which is the -ing form of a verb when it is used as a noun.

**Example** : The **approaching** deadline hung over the heads of all the people in the office.

- Use of **Past Participle**: The past participle is generally used with an auxiliary (or helping) verb—has, have, or had—to express the perfect aspect, a verb construction that describes events occurring in the past that are linked to a later time, usually the present.

**Example** : He was **finished** with the project.

69. Answer: c

Explanation:

The correct answer is **We needing to kept**.

★ Key Points

- The error lies in **Part (1)** of the sentence.
- Needing is in continuous form. Any verb should be in Continuous form if there is a helping verb after the subject.

**Example** : *Mohan is writing a letter.*

**Examples of Helping verbs** : *Is, Are, Am, Was, Were etc.*

- We never use **the third form of a verb** after the **infinitive 'to'** .
- **Infinitives** are a special form of the verb that can be used as **nouns ,adjectives , or adverbs**. They are usually made by **adding the word to before the base verb** , and they can be useful when discussing actions without actually doing the action, such as *"I want to go home,"* or *"To err is human."*
- Therefore, the use of **'We needing to kept'** in **part (1)** should be replaced with **'We need to keep/We needed to keep'** to make it grammatically correct.
- **Correct sentence:** *We need to keep a close eye on the rising prices of fuel. Or We needed to keep a close eye on the rising prices of fuel.*

★ Additional Information

A **gerund** is a form of a verb that ends in **-ing** which is used as a **noun**. As you may know, a **verb** is a word that refers to actions or states of being, and a **noun** is a word that we use to refer to people, places, things, and ideas. A **gerund** is like a blend of **verbs and nouns**. It looks like a verb, but it acts like a noun. **For example** , the word **swimming** is an example of a gerund. We can use the word **swimming** in a sentence as a noun to refer to the act of moving around in the water as in **Swimming is fun**.

## 70. Answer: a

### Explanation:

The correct answer is - 'Adhere'

#### ★ Key Points

- In the given options the **correct word** to fill in the blanks is '**Adhere**'.
- The meaning of **Adhere** is *to stick firmly to something*.

*Example: While working on the project, make sure that you **adhere** to the guidelines.*

- **Complete Sentence:** Farmers are urged to **adhere** to good agricultural practices in the disposal and spreading of agricultural wastes such as slurry.

#### ★ Additional Information

- The meaning of **Disturb** is *to cause somebody to worry*.
- The meaning of **Gather** is *to bring many things together*.
- The meaning of **Worship** is *to pray to and show respect for God or a god*.
- The meaning of **Slurry** is *a thick liquid consisting of water mixed with animal waste that farmers use on their fields to make plants grow better*.

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## 71. Answer: c

### Explanation:

The correct answer is- 'at'.

#### ★ Key Points

- In the given options the correct preposition to fill in the blanks is 'at'.
- The preposition "at" can be used in multiple contexts, such as telling time or location.

- Example: *I reached Delhi at night.* ( In this sentence 'I' am saying that when I reached Delhi, It was night time)
- Thus, option 3 is the correct answer.

★ Additional Information

- Let's understand the usage and meaning of the other options.
- In : To refer to a place , use the prepositions "in" (the point itself) , "at" (the general vicinity) , "on" (the surface) , and "inside" (something contained) .
  - Example : *They will meet in the lunchroom. She was waiting at the corner.*
- Into: We use *into* to talk about the movement of something , usually with a verb that expresses movement (e.g. *go, come*). It shows where something is or was going :
  - Example: *Mohit came into the room.*
- To: We can use *to* as a preposition to indicate a destination or direction.
  - Example: *Ram is going to market.*

---

72. Answer: b

**Explanation:**

The correct answer is- 'before'.

★ Key Points

- In the given options, the **correct option** to fill in the blank is '**before**'.
- **Before** is a **preposition**, an **adverb** and a **conjunction** . Before means **earlier than the time or event mentioned**.
  - Example: *The patient had died before the doctor came.*
- **Complete sentence** : In order to fall asleep at night, strive to turn off all electronic devices at least 30 minutes **before** getting into bed.

★ Additional Information

- Let's understand the usage and meaning of the other options.

- The meaning of 'Former' : *of an earlier time; belonging to the past*

**Example** : Manmohan Singh is the **former** Prime Minister of India.

- The meaning of 'Previous': *coming or happening before or earlier*

**Example** : Do you have **previous** experience in content development?

- The meaning of 'Latter': *nearer to the end of a period of time; later*

**Example** : The run rate drops in the **latter** half of the innings.

### 73. Answer: b

#### Explanation:

The correct answer is- 'spark'.

#### ★ Key Points

- In the given options, the **correct option** to fill in the blank is 'spark'.
- The meaning of 'Spark': *a flash of light that is caused by electricity.*

**Example:** *A spark ignites the fuel in a car engine .*

- **Complete sentence** : Allow your eyes to relax and take a break from the **spark** of a lit screen.

#### ★ Additional Information

- Let's understand the usage and meaning of the other options.
- The meaning of '**Stimulation**' : an action or thing that causes someone or something to become more active or enthusiastic , or to develop or operate.

**Example** : *Electric **stimulation** can help to heal fractured bones.*

- The meaning of '**Energy**' : *the power and ability to be physically and mentally active.*

**Example:** *Since I started eating more healthily I've got so much more **energy**.*

- The meaning of '**Illustration**': *a picture in a book, magazine, etc. or the process of illustrating something.*

**Example:** *The description was accompanied by a wonderful **illustration**.*

## 74. Answer: b

### Explanation:

The correct answer is- 'down'.

#### ★ Key Points

- In the given options the correct preposition to fill in the blanks is 'down'.
- **Down** is often used with **verbs of movement**, such as '**fall**' and '**pull**', and also in **phrasal verbs** such as '**bring down**' and '**calm down**'. To go down something such as a slope or a pipe means to go towards the ground or to a lower level.

Example: *We're going down a mountain.*

- Thus, option 2 is the correct answer.

#### ★ Additional Information

- Let's understand the usage and meaning of the other options.
- **On**: On is used to indicate touching and being supported **by the top surface of (something)**, or **moving to a position** that is supported by something.

Example: *He hung the painting **on** the wall.*

- **Of**: We use of when we want to show that people or things **relate** to other things or people.

Example: *I found the remaining **of** my book in the garage.*

- **Onto:** We use “onto” as a preposition to describe **the direction of an object moving toward a surface** .

Example: *She set the box **onto** the table.*

---

## 75. Answer: c

### Explanation:

The correct answer is- 'following'.

#### ★ Key Points

- In the given options, the correct option to fill in the blank is 'following'.
- We use **following** without **the + noun** phrase to mean 'after', 'in response to' or 'as a result of'.

Example: ***Following** a general strike in 1933, he fled the country and went to South America.*

#### ★ Additional Information

- Let's understand the usage and meaning of the other options.
- The meaning of 'Present': *existing or happening now*

Example :*He hopes to overcome his **present** difficulties.*

- The meaning of ' **Previous** ': *coming or happening before or earlier*

Example : Do you have *previous* experience in content development?

- The meaning of ' **Preceding** ': *is to happen, come or go before somebody/something.*

Example : The table exists on the *preceding* page.

---

## 76. Answer: a

### Explanation:

The correct answer is Lord Cornwallis

### ★ Key Points

- Lord Cornwallis
  - Lord Cornwallis was the Governor-General of Bengal when the Permanent Settlement was introduced there in 1793.
  - The permanent settlement is also known as the Permanent Settlement of Bengal.
  - It was an agreement between the British East India Company and the Landlords of Bengal to fix the land revenue.
  - Land revenue was the major source of income for the British in India.
  - Permanent Settlement was one such land revenue system.
  - It was first introduced in Bengal and Bihar and later it was introduced in Madras and Varanasi.
  - This system was also known as the Zamindari system.
  - He is known as the 'Father of Civil Services in India'.
  - He created the post of District Judge.
  - he was the first person to codify laws in 1793.

### ★ Additional Information

- Warren Hastings
  - First Governor-General of Bengal.
  - He abolished the dual system of administration.
  - Regulating Act of 1773 and Pitt's India Act of 1784.
  - Rohilla war in 1774.
  - He established Supreme Court in Calcutta.
  - He founded the Asiatic Society of Bengal.
  - First Anglo-Maratha War (1775-1782) ended with the Treaty of Salbai.
  - The second Anglo-Mysore war (1780-1784) ended with the Treaty of Mangalore.



- Major-General Sir Thomas Munro
  - He was a British soldier and colonial administrator .
  - He served as an East India Company Army officer and statesman, in addition to also being the governor of Madras Presidency.
  - Sir Thomas Munro retained the paternal framework of government but introduced a radically differing method of revenue management known as the Ryotwari system.
- Major-General Robert Clive
  - He was the first British Governor of the Bengal Presidency.
  - Clive has been widely credited for laying the foundation of the British East India Company rule in Bengal.

77. Answer: a

Explanation:

The correct answer is Both I and II

★ Key Points

Cold-blooded animals:

- Cold-blooded animals are animals that are not capable of regulating their body's temperature according to the temperature of the surrounding.
- They do not have a constant body temperature.
- Cold-blooded animals include reptiles, amphibians, fishes, insects, and other invertebrates.
- These animals are also called poikilothermic animals.
- Turtles and Snake both are cold-blooded animals.

★ Additional Information

Warm-blooded animals:

- Warm-blooded animals are the animals that are capable of maintaining a nearly constant body temperature irrespective of the temperature of the

environment.

- Their body temperature remains the same as they move from one surrounding to another.
- The temperature control is mostly obtained by regulating their metabolic rates.
- Warm-blooded animals include birds and mammals.
- These animals are also called homeothermic animals.

**78. Answer: d**

**Explanation:**

The correct answer is Maharashtra

★ Key Points

- The Mahakali Caves, also Kondivite Caves, are a group of 19 rock-cut monuments built between the 1st century BCE and the 6th century CE.
- This Buddhist monastery is located in the eastern suburb of Andheri in the city of Mumbai in western India
- The suburbs of Mumbai hide several groups of unique monuments – ancient rock-cut temples.
- One such monument is the ancient Kondivite Caves, later known as Mahakali caves. Mahakali caves are 19 rock-cut caves, built between the 1st century BC and the 6th century.

★ Additional Information

<u>Monuments</u>	<u>Place</u>	<u>Founder</u>
Elephanta Caves	Mumbai	Rashtrakutas
Kanheri Caves	Mumbai	Buddhist
Ellora Caves	Aurangabad	Buddhist
Bhimbetka Rock Shelters	Raisen, Madhya Pradesh	Buddhist

79. Answer: c

**Explanation:**

The correct answer is Jaswant Singh.

★ Key Points

- Defending India attempts to comprehensively analyze the management of conflicts and security challenges faced by India during its first half-century as a free country
- This book plumbs the sources of Indian strategic culture and thought, the evolution of its armed forces, and the management of conflicts in the past 50 years.

★ Additional Information

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Author	Titles
Atal Bihari Vajpayee	<ul style="list-style-type: none"> <li>• Meri Ekyavan Kavitaen</li> <li>• Decisive Days: Selected Speeches</li> <li>• Twenty-one Poems</li> <li>• Kya Khoya Kya Paya, Amar Aag Hai</li> <li>• Nayi Disha</li> <li>• Kuchh Lekh Kuchh Bhashan</li> <li>• Na Dainyam Na Palayanam</li> <li>• Sreshtha Kavitaen, Samvedna</li> <li>• Meri Sansadiya Yatra</li> <li>• Rajaniti Neeti, Kya Khoya Kya Paya (English translation)</li> <li>• Jeevan Ke Swar</li> </ul>
Pranab Mukherjee	<ul style="list-style-type: none"> <li>• The Dramatic Decade: The Indira Gandhi Years</li> <li>• The Turbulent Years: 1980-1996</li> <li>• The Coalition Years: 1996-2012</li> <li>• The Presidential Years: 2012-2017</li> </ul>
Jaswant Singh	<ul style="list-style-type: none"> <li>• Defending India</li> <li>• A Call to Honour: In Service of Emergent India</li> <li>• Jinnah: India-Partition-Independence, India At Risk: Mistakes</li> <li>• Misconceptions, and Misadventures of Security Policy</li> <li>• India's External Intelligence: Secrets of Research and Analysis Wing (RAW)</li> </ul>
Sitaram Yechury	<ul style="list-style-type: none"> <li>• The Experience of the Telangana People</li> <li>• History Repeats Itself: The Naxalite Movement and its Ideology Revisited</li> <li>• Understanding the Communist Party of India (Marxist)</li> <li>• EMS Namboodiripad: A Biography</li> </ul>

Author	Titles
	<ul style="list-style-type: none"><li>Land Reforms in India: An Unfinished Agenda</li></ul>

80. Answer: c

### Explanation:

The correct answer is 1918

#### ★ Key Points

- Mahatma Gandhi organized the satyagraha movement amongst cotton mill workers at Ahmedabad in the year 1918.
- The cotton mill workers demanded a **50% wage hike but the Mill Owners were willing to give only a 20% wage hike**, to support the Cotton mill workers Gandhiji made a hunger strike.
- The result of the **Satyagraha** was that the **strike was successful and the workers got a 35% wage increase**.
- The **Champaran Satyagraha of 1917** was the first Satyagraha movement led by Gandhi.
- The **Satyagraha** made as the farmers were forced to grow indigo without any payment for it.
- The **Kheda Satyagraha of 1918** was the third Satyagraha movement led by Gandhi.
- This movement to support workers of the **Kheda district who were unable to pay the high taxes imposed by the British due to crop failure**.

#### ★ Additional Information

- Mahatma Gandhi died January 30, 1948, in Delhi, and the day is celebrated as **Shaheed Diwas or Martyrs' Day**.
- His autobiography is titled My Experiments with Truth.
- Important movements led by Mahatma Gandhi:
  - Champaran Movement (1917)
  - Kheda Movement (1918)
  - Khilafat Movement (1919)

- Non-Cooperation Movement (1920)
  - Civil Disobedience Movement: Dandi March (1930)
  - Quit India Movement (1942)
- 

81. Answer: d

**Explanation:**

The correct answer is 35

★ Key Points

- The 2011 Census of India or the 15th Indian Census was conducted in two phases, house listing, and population enumeration.
- The House listing phase began on 1 April 2010 and involved the collection of information about all buildings.
- There are 28 states and 8 Union territories in the country. Union Territories are administered by the President through an Administrator appointed by him/her.
- From the largest to the smallest, each State/ UT of India has a unique demography, history, culture, dress, festivals, language, etc.

★ Additional Information

- Kerala has the highest sex ratio of **1084 females per 1000 males** as per the census 2011.
  - The sex ratio is used to define the number of females per **1000 males**.
  - **Harayana** has the lowest sex ratio in India of **877 females per 1000 males**.
  - Puducherry has the highest sex ratio of **1037 females** and Daman and Diu has the lowest sex ratio of **618 females per 1000 males** in the Union Territory of India.
- 

82. Answer: b

**Explanation:**

The correct answer is Right To Property.

★ Key Points

- Fundamental rights are a group of rights that have been recognized by a high degree of protection from encroachment.
- Seven fundamental rights were originally provided by the Constitution – the right to equality, right to freedom, right against exploitation, right to freedom of religion, cultural and educational rights, right to property and right to constitutional remedies .
- **Right to property (Art 31)** which was a **fundamental right** originally was removed from the fundamental rights by the **44<sup>th</sup> amendment, 1978** and was declared a legal right under art **300-A**.
- Property rights explain the legal and intellectual ownership of assets and resources and one can make use of the same .
- These assets and resources can be both intangible or tangible in nature, and the owner can be government, individuals, and businesses.

★ Additional Information

- The Constitution of India has 6 Fundamental rights
  - **Right to equality** (Art 14 to Art 18)
  - **Right to Freedom** {Art 19 to Art 22}
  - **Right against Exploitation** (Art 23 and Art 24 )
  - **Right to Freedom of Religion** (Art 25 to Art 28)
  - **Cultural and Educational Rights** (Art 29 to Art 30)
  - **Right to Constitutional Remedies** (Art 32)

83. Answer: b

**Explanation:**

The correct answer is Radial Pattern.

★ Key Points

- **Radial pattern**

- It develops when **streams flow in different directions from a central peak or dome-like structure.**
- The radial drainage pattern develops around a central elevated point and is common to conically shaped features such as volcanoes.
- When the rivers originate from a hill and flow in all directions, the drainage pattern is known as '**radial**'.
- E.g. The rivers originating from the **Amarkantak range; Narmada and Son (a tributary of Ganga).**

★ Additional Information

- **Dendritic pattern**

- This pattern develops where the river channel follows the slope of the terrain.
- The stream with its tributaries resembles the branches of a tree, thus the name dendritic.

- **Trellis pattern**

- A river joined by its tributaries, at approximately right angles, develops a trellis pattern.
- A trellis drainage pattern develops where hard and soft rocks exist parallel to each other.

- **Rectangular pattern**

- A rectangular drainage pattern develops on a strongly jointed rocky terrain.

---

84. Answer: b

**Explanation:**

The correct answer is Madhya Pradesh.

★ Key Points

- Maach is thought to have originated from the Khyal theatre form of Rajasthan which spread out of the state and is thought to have, besides itself



and Maach, also given rise to other North Indian folk theatre forms of Nautanki in Uttar Pradesh and Swang in Haryana .

- In Madhya Pradesh, Maach is said to have been introduced by Gopalji Guru who himself authored several Maach plays.

★ Additional Information

- Maach is thought to be a two or three-century-old tradition that was shaped by the religious developments of the 19th century.
- Although a form of theatre, acting is under-emphasised and the theme unfolds through the songs and dances in the play
- The background of the play is set by curtains and the dancers usually double up as singers . It is a sung drama with only occasional use of speech

85. Answer: c

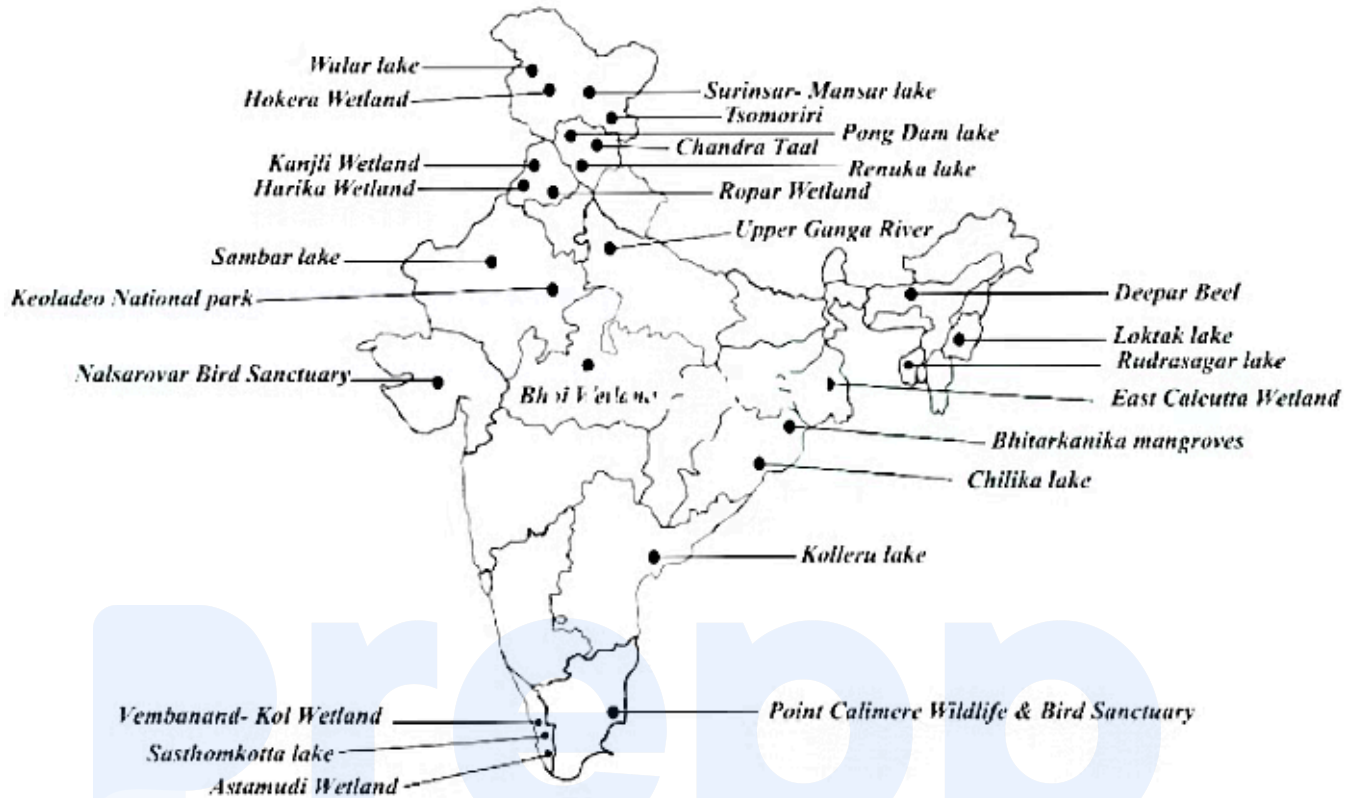
Explanation:

The correct answer is Sikkim

★ Key Points

- Tsomgo Lake is situated in Sikkim.
- It is also known as Changu Lake.
- This lake is a glacial lake near the capital Gangtok.
- The world's third-highest mountain, Kanchenjunga, regarded as the guardian deity of Sikkim.
- Sikkim is a part of the Eastern Himalayas, one of the 18 Biodiversity hotspots in the world.

### Important Lakes in India



★ Additional Information

- Associated with many legends and myths, Tsomgo is revered as a holy lake by the people of Sikkim
- Rides on colourfully decorated yaks and mules are offered at the lake site, which also has a variety of eating stalls serving snacks and beverages. Snowboots and gumboots can be hired here

86. Answer: b

**Explanation:**

The correct answer is Nitrogen

★ Key Points

- Nitrogen's symbol is N . Nitrogen is number 7 on the periodic table and has 2 core electrons and 5 valence electrons.
- Nitrogen's electron configuration is  $1s^2 2s^2 2p^3$ . Nitrogen, N, is a colorless, odorless, gaseous element that is about four-fifths of the volume of the atmosphere.

★ Additional Information

- Neptunium is a chemical element with the symbol Np and atomic number 93. A radioactive actinide metal, neptunium is the first transuranic element . Its position in the periodic table is just after uranium , named after the planet Uranus. A neptunium atom has 93 protons and 93 electrons, of which seven are valence electrons .
- Neon (Ne), a chemical element, inert gas of Group 18 (noble gases) of the periodic table, used in electric signs and fluorescent lamps.
- **Neodymium** is a chemical **element** with the **symbol Nd** and atomic number 60. It is the fourth member of the lanthanide series.

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87. **Answer: a**

**Explanation:**

The correct answer is Union Public Service Commission.

★ Key Points

- The Union Public Service Commission, commonly abbreviated as UPSC, is India's premier central recruitment agency for the recruitment of all the Group 'A' officers under the Government of India
- The UPSC is India's premier central recruiting agency, its under the Department of Personnel and Training, Government of India.

★ Additional Information

- The National Commission for Women (NCW) is the statutory body of the Government of India, generally concerned with advising the government on all

policy matters affecting women .

- The Competition Commission of India is the chief national competition regulator in India. It is a statutory body within the Ministry of Corporate Affairs and is responsible for enforcing the Competition
- The National Human Rights Commission of India is a statutory public body constituted on 12 October 1993 under the Protection of Human Rights Ordinance of 28 September 1993. It was given a statutory basis by the Protection of Human Rights Act, 1993

88. Answer: d

### Explanation:

The correct answer is Sitar

#### ★ Key Points

- Ravi Shankar KBE was an Indian sitarist and composer. A sitar virtuoso, he became the world's best-known exponent of North Indian classical music in the second half of the 20th century and influenced many musicians in India and throughout the world.
- He was born on 7 April 1920 in Varanasi and died on 11 December 2012 in La Jolla, California, United States.
- He was awarded Bharat Ratna, Grammy Lifetime Achievement Award, and more.
- He is an Indian musician, player of the sitar, composer, and founder of the National Orchestra of India.
- Sitar, a stringed instrument of the lute family that is popular in northern India, Pakistan, and Bangladesh.
- A sitar virtuoso, he became the world's best-known exponent of North Indian classical music in the second half of the 20th century, and influenced many musicians in India and throughout the world.
- Shankar was awarded India's highest civilian honour, the Bharat Ratna, in 1999.

#### ★ Additional Information

- The violin, sometimes known as a fiddle, is a wooden chordophone in the violin family. Most violins have a hollow wooden body. It is the smallest and thus highest-pitched instrument in the family in regular use.
- The flute is a family of classical music instruments in the woodwind group. Like all woodwinds, flutes are aerophones, i.e. they make sound by vibrating a column of air.
- The guitar is a fretted musical instrument that typically has six strings. It is usually held flat against the player's body and played by strumming or plucking the strings with the dominant hand.

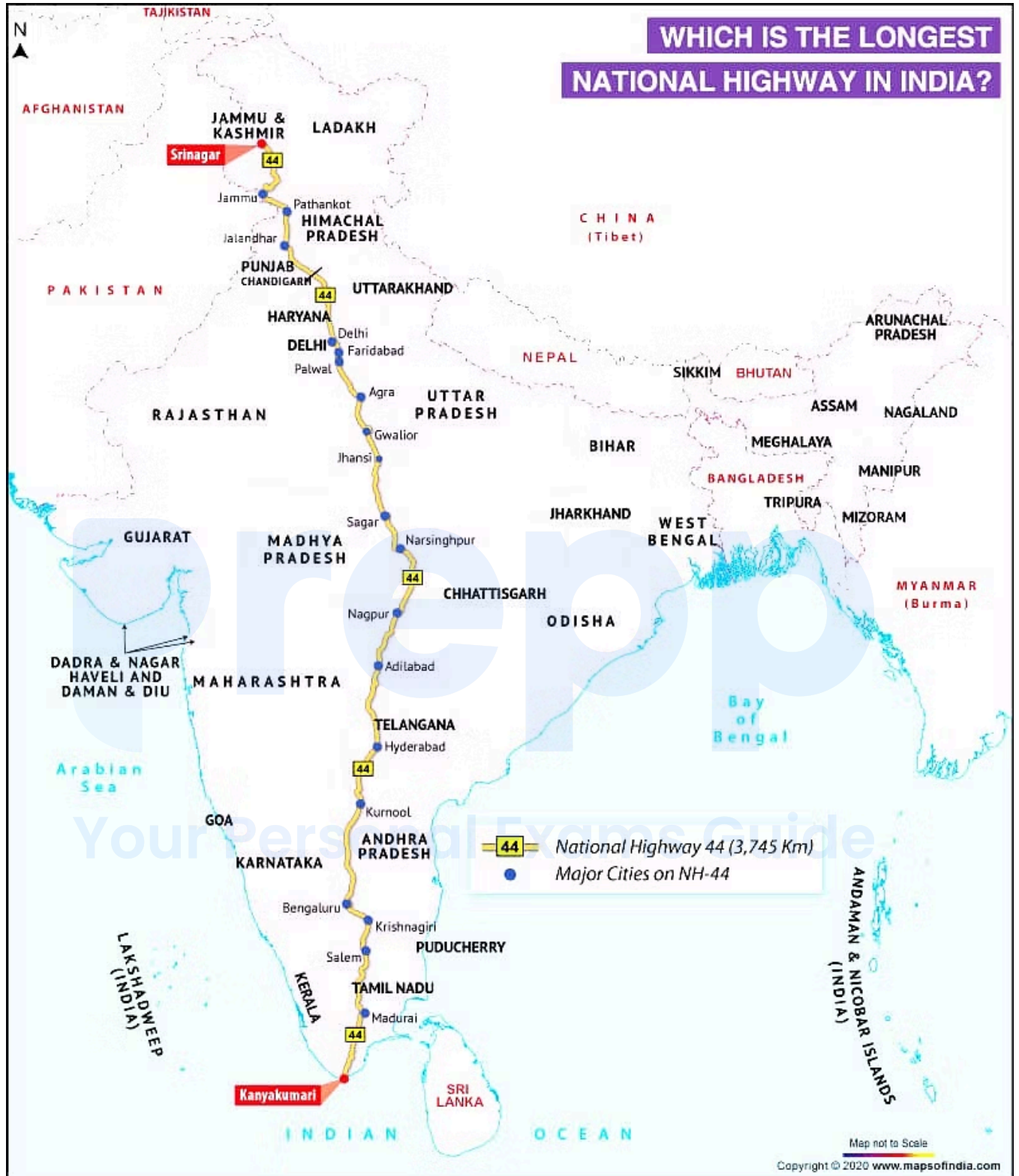
89. Answer: c

### Explanation:

The correct answer is Tamil Nadu

#### ★ Key Points

- NH-44
  - NH-44 is the longest national highway in India with a length of 3745 Kilometers running from **Srinagar in the north to Kanyakumari in the south.**
  - This highway connects 11 states and about 30 important cities.
  - It was previously known as NH 7.
  - It came into being by merging seven national highways in full or part NH1, NH 1A, NH 2, NH 3, NH 75, NH 26, NH75.



★ Additional Information

- The shortest national highway of India is NH 47A which connects Kundanoor Junction of Maradu in Kochi City to the Kochi port at Willingdon Island.
- NH-2
  - NH-2 was a major National Highway in India, that connected the states of Delhi, Haryana, Uttar Pradesh, Bihar, Jharkhand, and West Bengal.
  - It constitutes a major portion of the historical Grand Trunk Road along with old NH 91 and old NH1 in India.
  - The road was the part of National Highway network of India, and it is officially listed as running over 1,465 km.
- NH-4
  - NH-4 was a major National Highway before National Highway renumbering in Western and Southern India.
  - NH-4 linked four of the 10 most populous Indian cities- Mumbai, Pune, Bangalore, and Chennai.
  - NH-4 was 1,235 km in length and passed through the states of Maharashtra, Karnataka, and Tamil Nadu.
- NH-6
  - NH-6 was a National Highway in India that has been separately designated under the new national highway numbering system.
  - It was officially listed as running over 1,949 km from Surat to Kolkata.
  - The route was also known as Asian Highway 46.

## Your Personal Exams Guide

90. Answer: b

### Explanation:

The correct answer is Shreyas Iyer.

### ★ Key Points

- Shreyas Santosh Iyer is an Indian cricketer who plays for the national side in international cricket, Mumbai in domestic cricket, and captains Kolkata Knight Riders in the Indian Premier League
- He was voted for the Men's category for the ICC player of the Month for February 2022.

★ Additional Information

- Vriitya Aravind is an Emirati cricketer who plays as a wicket-keeper batsman for the United Arab Emirates cricket team. In October 2019, he was added to the UAE's squad for the 2019 ICC T20 World Cup Qualifier tournament, replacing Ghulam Shabber.
- Dependra Singh Airee is a Nepalese cricketer. In August 2018, he was one of the eleven cricketers to play in Nepal's first-ever One Day International match, against the Netherlands
- Virat Kohli is an Indian international cricketer and former captain of the Indian national cricket team. He plays for Delhi in domestic cricket and Royal Challengers Bangalore.

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91. Answer: a

Explanation:

The correct answer is Ratha Yatra.

★ Key Points

- **Ratha Yatra is a Hindu festival associated with Lord Jagannath** held at Shri Kshetra Puri Dham in the state of Odisha, India.
- It is the oldest Ratha Yatra, whose descriptions can be found in **Brahma Purana, Padma Purana, and Skanda Purana and Kapila Samhita.**

★ Additional Information

- Losar also known as Tibetan New Year, is a festival in Tibetan Buddhism. The holiday is celebrated on various dates depending on location tradition.
- The Hemis Festival **marks the birth anniversary of Guru Padmasambhava and the victory of good over evil.** Also known as Tse-Chu, the event will be held in one of Ladakh's famous monasteries, Hemis Gompa.
- Thrissur Pooram is **one of the biggest festivals in Kerala.** It is a Hindu temple festival held in various temples of the state, though the center of attraction is Vadakkunnathan temple.



92. Answer: a

**Explanation:**

The correct answer is Kuchipudi

★ Key Points

- **Vempati Chinna Satyam**
  - **Vempati Chinna Satyam**(1929–2012) was an Indian dancer and a guru of the **Kuchipudi** dance form.
  - Born in a brahmin family, in **Kuchipudi Andhra Pradesh**.
  - He refined the art form, bringing it closer to the standards of **Natya Shastra** and giving it a whole new perspective, and introducing new elements, i.e chari (leg movements) of Natya Shastra.
  - He has started the **Kuchipudi Art Academy** at **Madras** in **1963**.
  - He was awarded by many state governments of India such as **Kalaimamani** by the **Government of Tamil Nadu** and **Kalidas Puraskar** by the **Government of Madhya Pradesh**.
  - He was honored with a **Doctorate degree** from **Andhra University**.
  - He was also awarded the **Padma Bhushan** by the **Government of India**, the third highest civilian award.

★ Additional Information

- The **Bihu dance** is an indigenous folk dance from the Indian state of Assam related to the Bihu festival and an important part of Assamese culture. Out of the three Bihu festivals in the state namely Rongali Bihu, Kongali Bihu, and Bhogali Bihu, the dance is performed by young men and women during Rongali Bihu to express their joy on the arrival of spring.
- The Manipuri Dance, also referred to as the Manipuri Raas Leela (Meitei: Jagoi Raas, Raas Jagoi), is one of the eight major Indian classical dance forms, originating from the state of Manipur.
- Odissi is a dance form from the state of Odisha in eastern India. It is recognised as one of the eight classical dance forms of India and celebrated around the

world for its lyricism, sensuality, and emphasis on bhakti bhava (attitude of devotion and surrender)

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93. Answer: c

**Explanation:**

The correct answer is Fiscal deficit.

★ Key Points

- The difference between the total revenue and total expenditure of the government is termed as fiscal deficit.
- It is an indication of the total borrowings needed by the government.
- While calculating the total revenue, borrowings are not included.

★ Additional Information

- **The availability of credit.** High credit flow indicates low-interest rates, loose credit requirements, and ease of borrowing money. Low credit flow indicates the opposite.
  - A debt burden is **a large amount of money that one country or organization owes to another and which they find very difficult to repay.**
  - A market is said to have reached equilibrium price **when the supply of goods matches demand.** A market in equilibrium demonstrates three characteristics: the behavior of agents is consistent, there are no incentives for agents to change behavior, and a dynamic process governs equilibrium outcomes.
- 

94. Answer: d

**Explanation:**

The correct answer is Ghiyas-ud-din Tughlaq.

- Ghiyasuddin Tughlaq built the city of Tughlaqabad.

### ★ Key Points

- **Ghiyasuddin Tughlaq:**
  - He was also known as **Ghazi Malik**.
  - Ghiyasuddin Tughlaq was the **founder of the Tughlaq dynasty**.
  - This dynasty was also known as the dynasty of the **Qaraunah Turks**.
  - He was the **first sultan of Delhi** who took up the title of **Ghazi or slayer of the infidels**.
  - He made policies for the Construction of canals and the formulation of a famine.
  - He started the **barter system or sharing of crops**.
  - He built the city of **Tughlaqabad** near Delhi and made it his **capital**.

### ★ Additional Information

- Alaud-Dīn Khaljī, also called Alauddin Khilji or Alauddin Ghilji, born Ali Gurshasp, was an emperor of the Khalji dynasty that ruled the Delhi Sultanate in the Indian subcontinent.
- Sultan Firoz Shah Tughlaq was a ruler from the Tughlaq dynasty, who reigned over the Sultanate of Delhi from 1351 to 1388. He succeeded his cousin Muhammad bin Tughlaq following the latter's death at Thatta in Sindh, where Muhammad bin Tughlaq had gone in pursuit of Taghi the ruler of Gujarat
- Muhammad bin Tughlaq was the eighteenth sultan of the Delhi Sultanate, reigning from February 1325 until his death. He was the eldest son of Ghiyath al-Din Tughluq, the founder of the Tughlaq dynasty.

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95. **Answer: c**

### **Explanation:**

The correct answer is Shreyas Iyer.

### ★ Key Points

- **Shreyas Santosh Iyer** is an Indian cricketer who plays for the national side in international cricket, Mumbai in domestic cricket, and captains Kolkata Knight

Riders in the Indian Premier League

- Shreyas Iyer, who was bought for Rs 12.25 crore in the IPL mega auction, will be leading the **Kolkata Knight Riders** in IPL 2022.

★ Additional Information

- **Rishabh Rajendra Pant is an Indian cricketer** who plays as a middle-order wicket-keeper batter for India, Delhi, and captains the Delhi Capitals in the Indian Premier League. He was the vice-captain of the India U-19 team for the 2016 Under-19 Cricket World Cup
- Avesh Khan is an Indian cricketer. In December 2015 **he was named in India's squad for the 2016 Under-19 Cricket World Cup**. He made his international debut for the India cricket team in February
- Mohammed Siraj is an **Indian cricketer who plays for Hyderabad in domestic cricket, Royal Challengers Bangalore** in the Indian Premier League, and the India national cricket team.

96. **Answer: b**

**Explanation:**

The correct answer is Mirabai Chanu.

★ Key Points

- Weightlifter Mirabai Chanu won the BBC Indian Sportswoman of the Year award for 2021 on 29 March 2022.
- Chanu became the first Indian weightlifter to win a silver medal at an Olympic Games when she finished second in the 49kg category in Tokyo.
- Chanu won the gold medal in the 48kg division at the 2017 World Championships in Anaheim and followed up with Commonwealth Games gold in 2018.

★ Additional Information

- Lovlina Borgohain is an Indian boxer. She won a bronze medal at the 2020 Olympic Games in the women's welterweight event, becoming only the third Indian boxer to win a medal at the Olympics. She won the bronze medal at the 2018 AIBA Women's World Boxing Championship
- Aditi Ashok is an Indian professional golfer from Bangalore. She plays on the Ladies European Tour and LPGA Tour. She made her Olympic Games debut at the 2016 Summer Olympics. She qualified for the 2020 Summer Olympics in Tokyo, representing India in golf and finished 4th
- Pusarla Venkata Sindhu is an Indian badminton player. Considered one of India's most successful sportspersons, Sindhu has won medals at various tournaments such as the Olympics and on the BWF circuit, including a gold at the 2019 World Championships.

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97. Answer: a

**Explanation:**

The correct answer is Harshvardhana

★ Key Points

- Baṇabhaṭṭa was a 7th - century Sanskrit prose writer and poet of India.
- He was the Asthana Kavi (court poet) in the court of King Harsha Vardhana, who reigned c. 606 - 647 CE in north India.
- Bana's principal works include a biography of Harsha, the Harshacharita (Deeds of Harsha), and one of the world's earliest novels, Kadambari.
- Baṇa died before finishing the novel and it was completed by his son Bhuṣaṇabhaṭṭa.
- Both these works are noted texts of Sanskrit literature.

★ Additional Information

- Ashoka Asoka, 304 – 232 BCE, also known as Ashoka the Great, was an Indian emperor of the Maurya Empire, son of Bindusara, who ruled almost all of the Indian subcontinent from c. 268 to 232 BCE.
- Ashoka promoted the spread of Buddhism across ancient Asia.

- Kumaragupta I was an emperor of the Gupta Empire of Ancient India. A son of the Gupta emperor Chandragupta II and queen Dhruvadevi, he seems to have maintained control of his inherited territory, which extended from Gujarat in the west to the Bengal region in the east.
- Bindusara, also Amitraghāta or Amitrochates was the second Mauryan emperor of India. He was the son of the dynasty's founder Chandragupta and the father of its most famous ruler Ashoka.

98. Answer: d

### Explanation:

The correct answer is Sri Lanka and Maldives

#### ★ Key Points

- Some 800km southwest of Sri Lanka, and stretching 800km from north to south, the famously photogenic Maldives is made up of nearly 1,200 islands clustered within 26 atolls, over 100 of which are resort islands.
- The Maldives is an independent island country in the north-central Indian Ocean.
- The islands that make up the country extend more than 510 miles (820 km) from north to south and 80 miles (130 km) from east to west.

#### ★ Additional Information

- India shares land borders with seven other countries in the world.
- India does not share land boundaries in the north with Myanmar.
- The countries sharing the land borders with India are:
  1. China.
  2. Bhutan.
  3. Nepal.
  4. Pakistan.
  5. Afghanistan.
  6. Bangladesh.
  7. Myanmar.

- India shares a boundary with China, Bhutan, Nepal, Pakistan, and Afghanistan in the North.
- India shares a boundary with Bangladesh and Myanmar in the east.
- Sri Lanka, Maldives, and Indonesia are the countries sharing water borders with India.
- India shares most of its land boundary with Bangladesh.
- India shares the least land boundary with Afghanistan.
- China is the largest country that shares land borders with India.
- Bhutan is the smallest country that shares land borders with India.

99. Answer: d

**Explanation:**

The correct answer is Carbon Dioxide

★ Key Points

- Carbon dioxide is a chemical compound made up of molecules that each have one carbon atom covalently double bonded to two oxygen atoms, found in the gas state at room temperature.
- As the dough rises and proofs, carbon dioxide is formed; this is why the dough volume increases. The carbon dioxide expands and moves as the bread dough warms and bakes in the oven.

★ Additional Information

- Phosphorus is a mineral that makes up 1% of a person's total body weight. It is the second most abundant mineral in the body. It is present in every cell of the body. Most of the phosphorus in the body is found in the bones and teeth.
- Oxygen is the chemical element with the symbol O and atomic number 8. It is a member of the chalcogen group in the periodic table, a highly reactive nonmetal, and an oxidizing agent that readily forms oxides with most elements as well as with other compounds.
- Nitrogen is the chemical element with the symbol N and atomic number 7. Nitrogen is a nonmetal and the lightest member of group 15 of the periodic

table, often called the pictogens.

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## 100. Answer: b

### Explanation:

The correct answer is Finance Bill.

#### ★ Key Points

- The Finance Bill forms a part of the Union Budget, with details about all the legal amendments required for the changes in taxation proposed by the Finance Minister of the country. Money bills are concerned with financial matters like taxation, public expenditure, etc.

#### ★ Additional Information

1. An appropriation bill is a bill that authorizes the government to withdraw funds from the Consolidated Fund of India for use during the financial year. : Post the discussions on Budget proposals and the Voting on Demand for Grants, the government introduces the Appropriation Bill in the Lok Sabha.
2. The Mediation Bill requires persons to try to settle civil or commercial disputes through mediation before approaching any court or tribunal. A party may withdraw from mediation after two mediation sessions. The mediation process must be completed within 180 days, which may be extended by another 180 days by the parties
3. The Indian Antarctic Bill, establishes a comprehensive set of regulations for scientific expeditions, as well as individuals, businesses, and tourists visiting Antarctica. The bill gives Indian courts jurisdiction over crimes committed on the continent by Indian citizens or foreign citizens participating in Indian expeditions.