

# 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: 8 July 2022 Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

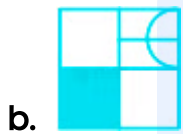
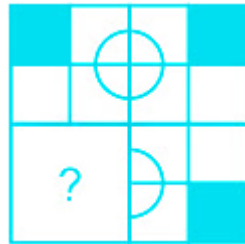
## Instructions

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



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

$$32 : 99 :: ? : 45 :: 16 : 51$$

- a. 18  
b. 12

c. 10

d. 14

- 
3. 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)**

PM : RJ :: TF : ?

a. VD

b. VC

c. UD

d. UC

- 
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)**

KIN : MGS :: RFB : ?

a. THE

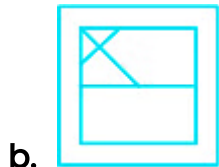
b. TCG

c. TDH

d. TDG

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





6. Which two digits need to be interchanged to make the following equation correct? (+1, -0.25)

$$16 \div 7 \times 2 + 4 - 3 = 12$$

- a. 2 and 4
- b. 7 and 4
- c. 16 and 2
- d. 7 and 3

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

64, 68, 77, 93, 118, ?

- a. 168
- b. 154
- c. 157
- d. 134

8. In a certain code language, 'HERO' is written as 'IGSQ' and 'LOVE' is written as 'MQWG'. How will 'ROAD' be written in that language? (+1, -0.25)

- a. SQBF
- b. SQBE
- c. SQCF
- d. SPBF

9. In a certain code language, 'AB CD' is coded as '10', and 'EG FA' is coded as '19'. How will 'JR LF' be coded in that language (+1, -0.25)

- a. 48
- b. 50
- c. 46
- d. 44

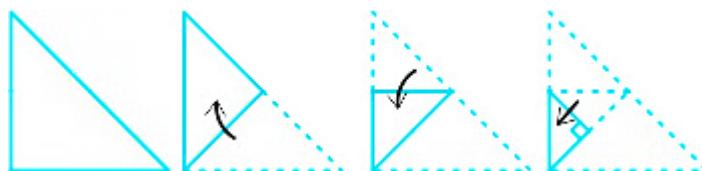
10. Select the correct mirror image of the given figure when the mirror is placed at AB as shown.

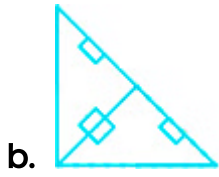
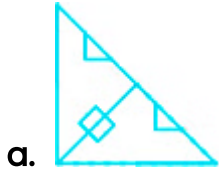
(+1, -0.25)



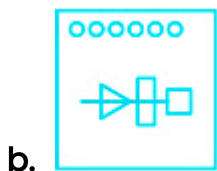
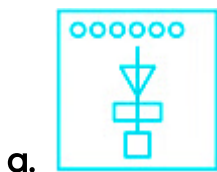
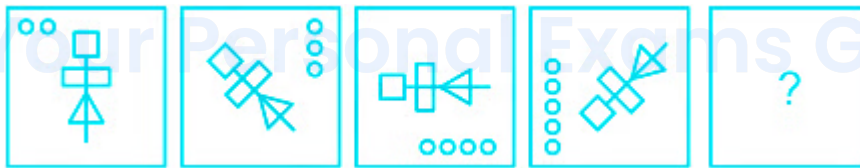
11. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?

(+1, -0.25)





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





13. Eight girls X, Y, Z, U, V, W, S and T are sitting around a circular table, facing towards the centre (not necessarily in the same order). X is second to the left of U. U is third to the left of V. Z is third to the right of S. S is not the immediate neighbour of V. T is third to the right of Y. Y is second to the right of S. Three out of the following four options are similar by a certain logic and form a group. Which of the following does NOT belong to that group? (+1, -0.25)
- a. YS
- b. WV
- c. YZ
- d. UX

14. In a certain code language, 'OVERT' is written as 'LEVIG' and 'MOKIN' is written as 'NLPRM'. How will 'ILICO' be written in that language? (+1, -0.25)
- a. RORXL
- b. RORWL
- c. RORXK

d. RORXM

---

15. 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:**

No forests are trees.

Some trees are short.

**Conclusions:**

I. Some forests are short.

II. No tree is a forest.

a. Neither conclusion I nor II follow.

b. Only conclusion II follows.

c. Both conclusions I and II follow.

d. Only conclusion I follows.

---

16. In a certain code language, 'Red are sweet brown' is coded as '8 6 4 2', and 'Blue moon are white' is coded as '5 3 1 2'. What is the code for 'are' in that language? (+1, -0.25)

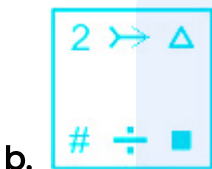
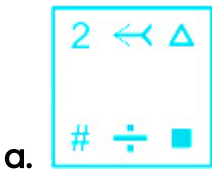
a. 2

b. 6

c. 1

d. 4

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



18. Six boys A1, A2, A3, A4, A5 and A6 are sitting around a circular table, facing towards the centre. A4 is the third to the left of A1. A5 and A3 are neighbours of A4. A6 is to the immediate right of A5. (+1, -0.25)

Who is sitting third from the left of A6?

a. A2



- b. A3
  - c. A5
  - d. A4
- 

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

20, 10, 10, 15, 30, 90

- a. 15
  - b. 10
  - c. 30
  - d. 90
- 

20. Seven teachers M, N, O, P, Q, R and S take different number of tuitions. P takes more tuitions than S. M takes more tuitions than Q. R takes the second highest number of tuitions. The number of tuitions that O takes is less than only that of four teachers. N takes less tuitions than P but more than M. Q takes the least number of tuitions. S takes the second lowest number of tuitions. (+1, -0.25)

In terms of the number of tuitions taken, who is between N and S?

- a. R, Q
  - b. P, M
  - c. O, P
  - d. M, O
-

21. After interchanging the given two signs and two numbers, what will be the value of the following expression? (+1, -0.25)

4 and 12;  $\div$  and +

$$12 \times 4 + 3 \div 6 - 2$$

- a. 30
- b. 20
- c. 15
- d. 25

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

D, G, J, M, P, ?

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

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)

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

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

(2, 3, 25)

(3, 4, 49)

a. (4, 5, 81)

b. (4, 5, 91)

c. (4, 6, 110)

d. (4, 7, 111)

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

B 2 : F 6 :: K 11 : O 15 :: R 18 : ?

a. U 20

b. V 21

c. W 21

d. V 22

25. 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. Some M are P.

II. All X are M.

**Conclusions:**

I. Some P are X.

II. Some P are M.

III. No P is X.

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

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## Numerical Aptitude

26. A boat can travel 42 km in 6 hours while going upstream. If the speed of the stream is 2km/h, then how much distance will the boat cover in 12 hours while going downstream? (+1, -0.25)

- a. 120 km
- b. 132 km
- c. 144 km
- d. 156 km

27. The value of  $[12 \times 5 - \{200 - (501 + 247 - 386)\}] \div 2$  is: (+1, -0.25)

- a. 82
- b. 111
- c. 61
- d. 62

28. The perimeter of an equilateral triangle is 36 cm. What is the area of this triangle? (+1, -0.25)

- a.  $96\sqrt{3} \text{ cm}^2$
- b.  $36\sqrt{3} \text{ cm}^2$
- c.  $24\sqrt{3} \text{ cm}^2$
- d.  $27\sqrt{3} \text{ cm}^2$

29. A can do a work in 10 days and B can do the same work in 15 days. If they work on it together for 4 days, then the fraction of the work that is left is: (+1, -0.25)

- a.  $\frac{2}{3}$
  - b.  $\frac{3}{5}$
  - c.  $\frac{3}{4}$
  - d.  $\frac{1}{3}$
- 

30. The average of 11 observations is 10, that of the first 6 being 9 and that of the last 6 being 11. What is the 6<sup>th</sup> observation? (+1, -0.25)

- a. 11
  - b. 8
  - c. 9
  - d. 10
- 

31. If  $0.04 : 0.06 :: 0.06 : A$ , then what is the value of A? (+1, -0.25)

- a. 0.05
  - b. 0.08
  - c. 0.06
  - d. 0.09
-

32. The diagonal of a rectangle is 12 cm long, and it is twice as long as one of the sides of the rectangle. What is the area of this rectangle? (+1, -0.25)

- a.  $25 \sqrt{3} \text{ cm}^2$
- b.  $30 \sqrt{3} \text{ cm}^2$
- c.  $36 \sqrt{3} \text{ cm}^2$
- d.  $42 \sqrt{3} \text{ cm}^2$

33. If  $A = \frac{1}{2} \div \frac{1}{3} \times \frac{1}{4} + \frac{1}{5} \times \frac{1}{6}$  and  $B = \frac{1}{6} \div \frac{1}{3} \times \frac{1}{5} + \frac{1}{4} \times \frac{1}{2}$ , then what is the value of  $(A - B)$ ? (+1, -0.25)

- a.  $\frac{1}{5}$
- b.  $\frac{11}{60}$
- c.  $\frac{33}{35}$
- d.  $\frac{25}{36}$

34. How much amount can a person get on a sum of Rs. 6,600, if it is invested at 6.2% per annum for a period of 2 years 6 months on simple interest? (+1, -0.25)

- a. Rs. 7,222
- b. Rs. 7,623
- c. Rs. 7,852
- d. Rs. 7,546



35. P starts from A at 6 a.m. and reaches B after 8 hours. Q starts from B of 8 a.m. and reaches A after 9 hour. When they meet, what is the ratio of the distance travelled by Q to the distance travelled by P? (+1, -0.25)

- a. 3 : 8
- b. 6 : 7
- c. 6 : 11
- d. 8 : 3

36. On an 18% discount sale, an article costs Rs. 6,560. What is the marked price of the article? (+1, -0.25)

- a. Rs. 8,800
- b. Rs. 7,000
- c. Rs. 8,000
- d. Rs. 7,500

37. 4 boys or 7 girls can complete a piece of work in 18 days. How many days will 12 boys and 21 girls together take to complete this job? (+1, -0.25)

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

38. The number of boys in a class is 45% of the total number of students in the class. If the number of girls in the class is 33, then what is the number of boys in the class? (+1, -0.25)

- a. 27
- b. 21
- c. 30
- d. 24

---

39. A solid sphere whose radius is 21 cm is melted and recast into a regular pyramid of square base. If height of the pyramid is 66, then what is the length of each side of the base of the pyramid? [Use  $\pi \frac{22}{7}$ ] (+1, -0.25)

- a. 68 cm
- b. 85 cm
- c. 42 cm
- d. 48 cm

---

40. 120 apples, 240 orange and 150 pears are packed in cartons in such a way that each carton has the same number of fruits, each carton contains only one type of fruit, and no fruit is left unpacked. What is the smallest possible number of cartons needed for the purpose? (+1, -0.25)

- a. 50
- b. 40
- c. 17

d. 30

---

41. Two mixers and one TV cost Rs. 500, while two TVs and one mixer cost Rs. 700. The cost of one TV is: **(+1, -0.25)**

- a. Rs. 100
  - b. Rs. 400
  - c. Rs. 300
  - d. Rs. 200
- 

42. The following table shows the numbers of pairs of shoes of 6 different brands sold by a shop during a given week. **(+1, -0.25)**

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Brand	Shoes
B1	42
B2	58
B3	61
B4	49
B5	71
B6	49

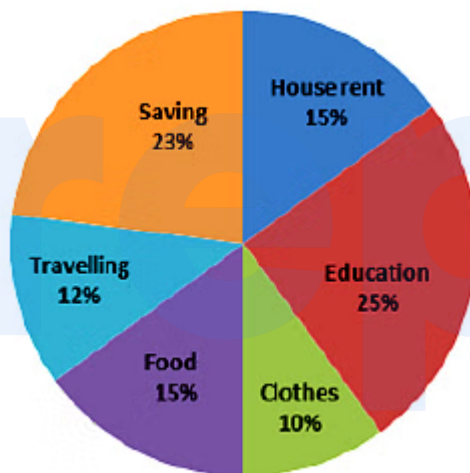
The shop also sells brand B7 now. The number of pairs of shoes of B7 are 20% more than the average number of shoes sold of the other 6 brands. What is the number of shoes sold of B7?

- a. 68
- b. 76
- c. 72
- d. 66

43. The average of seven numbers is 20, if 2 is subtracted from each number, (+1, -0.25) then what will the new average be?

- a. 22
- b. 10
- c. 9
- d. 18

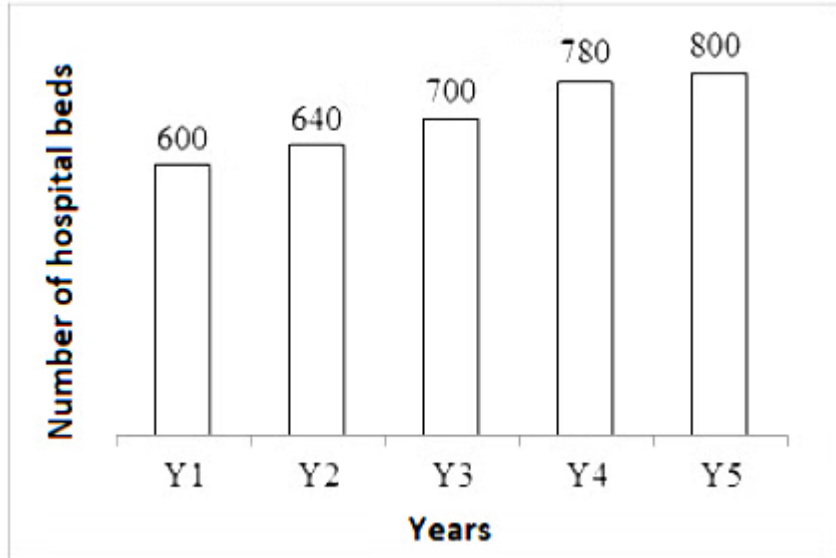
44. The following pie chart shows the expenditure of Ayush on various heads, (+1, -0.25) including Savings, as percentages of his income.



If the expenditure of Ayush on Food is Rs. 18,000, then what would his savings be?

- a. Rs. 31,200
- b. Rs. 26,400
- c. Rs. 27,600
- d. Rs. 33,000

45. The following bar chart shows the number of hospital beds in a state in 5 (+1, -0.25) consecutive years.



The number of hospital beds in Y6 will be 20% more than the number of such beds in Y5, and the number of hospital beds in Y7 will be 25% more than the number of such beds in Y6. What is the ratio of the number of hospital beds in Y2 to the number of hospital beds in Y7?

- a. 16 : 31
- b. 8 : 15
- c. 2 : 7
- d. 4 : 7

46.  $A : B = 12 : 17$  and A is 20% more than C. If B is 15% less than D, then C is what percentage of D? (+1, -0.25)

- a. 47.5%
- b. 50%
- c. 52.5%
- d. 55%

- 
47. The average weight of all the 200 employees in an office is 68.2 kg, where  $\frac{2}{5}$  of the employees are ladies and the ratio of the average weight of a man to that of a woman is 7 : 5 Find the average weight of female employees. (+1, -0.25)
- a. 60 kg
- b. 54 kg
- c. 55 kg
- d. 59 kg

- 
48. The population of a town is increasing at rate of 10% per year. If the present population of the town is 1,00,000, what will its populaton be 2 years from now? (+1, -0.25)
- a. 3,00,000
- b. 1,21,000
- c. 2,10,000
- d. 1,20,000

- 
49. Raju sells an object at 20% below its cost price. If he sold it for Rs. 450 more, he would have made a profit of 25%. What is the original selling price of the object? (+1, -0.25)
- a. Rs. 700
- b. Rs. 500
- c. Rs. 900



d. Rs. 800

---

50. The ratio of the numbers of boys and girls in a school is 5 : 8. If there are 260 students in the school, then what is the difference between the numbers of girls and boys in the school? (+1, -0.25)

a. 50

b. 80

c. 40

d. 60

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## General English

51. 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 jute plant is usual harvested when it is at the flowering stage.

- a. when it is
- b. is usual harvested
- c. at the flowering stage
- d. The jute plant

52. Select the most appropriate meaning of the underlined idiom. (+1, -0.25)

My cousin's office is at a stone's throw from my house.

- a. In a dangerous situation
- b. Near the forest
- c. A short distance
- d. A long route

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

That which can be easily broken

- a. Portable

- b. Fragile
- c. Durable
- d. Stern

---

54. 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)

She say that she feels very/lonely and depressed/living in a big house.

- a. She say that she feels very
- b. living in a big house
- c. No error
- d. lonely and depressed

---

55. 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)

I am currently worked/with a newly/set up marketing company.

- a. I am currently worked
- b. set up marketing company
- c. No error
- d. with a newly

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

(+1, -0.25)

Concede

- a. Permit
- b. Reject
- c. Deny
- d. Fascinate

---

57. Select the most appropriate synonym of the underlined word in the given sentence.

(+1, -0.25)

We need to protest against this policy.

- a. assent
- b. resist
- c. validate
- d. perk

---

58. Select the option that can be used as a one-word substitute for the given group of words.

(+1, -0.25)

Weakness and poor health

- a. Frailty
- b. Obscurity
- c. Geniality

d. hospitality

---

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

To own up to something as true

- a. Redress
- b. Assess
- c. Suppress
- d. Confess

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

- a. Credintial
- b. Habichual
- c. Lopsided
- d. Adventurios

61. Select the most appropriate word for the given group of words. (+1, -0.25)

A person incapable of making mistakes

- a. Pure
- b. Naive
- c. Infallible

d. Optimist

---

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

Danny lay on his back staring at the \_\_\_\_\_ of his room.

a. sealing

b. ceiling

c. seeding

d. syringe

---

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

A sound that is pleasing to hear

a. Harsh

b. Melodious

c. Inspired

d. Audible

---

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

Cowardly

a. Integral

b. Fleeting

---

- c. Spineless
  - d. Valiant
- 

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

I believe in having a clear and lucid conversation.

- a. Blazing
  - b. Tangible
  - c. Ambiguous
  - d. Coherent
- 

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

Deficient

- a. Incomplete
  - b. Integral
  - c. Sleek
  - d. Whole
- 

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

- a. Admonish
- b. Agravate



- c. Assertion
  - d. Accumulate
- 

68. 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 missing child was discovered in lower Maryland a few days later.

- a. little days later
  - b. a lot of days later
  - c. No substitution required
  - d. few day later
- 

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

Set the wheels in motion

- a. To end a journey
  - b. To initiate a chain of events
  - c. To end a discussion
  - d. To drive very fast
- 

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

I signed this science project \_\_\_\_\_ London.

- a. beneath

- b. in
- c. by
- d. into

---

71. 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)

With over 49,000 plant species (1) \_\_\_\_\_ as of 2018, India holds (2) \_\_\_\_\_ 11.5% of all the flora in the world. Now, a new fossil record has (3) \_\_\_\_\_ that India is the birthplace of Asian bamboo, and they (4) \_\_\_\_\_ formed about 25 million years ago in the north-eastern (5) \_\_\_\_\_ of the country.

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

- a. assigned
- b. reported
- c. deserved
- d. signed

---

72. 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)

With over 49,000 plant species (1) \_\_\_\_\_ as of 2018, India holds (2) \_\_\_\_\_ 11.5% of all the flora in the world. Now, a new fossil record has (3) \_\_\_\_\_ that India is the birthplace of Asian bamboo, and they (4) \_\_\_\_\_ formed about 25 million years ago in the north-eastern (5) \_\_\_\_\_ of the country.

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

- a. on
- b. off
- c. upon
- d. about

---

73. 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)

With over 49,000 plant species (1) \_\_\_\_\_ as of 2018, India holds (2) \_\_\_\_\_ 11.5% of all the flora in the world. Now, a new fossil record has (3) \_\_\_\_\_ that India is the birthplace of Asian bamboo, and they (4) \_\_\_\_\_ formed about 25 million years ago in the north-eastern (5) \_\_\_\_\_ of the country.

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

- a. known
- b. arranged
- c. limited
- d. shown

---

74. 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)

With over 49,000 plant species (1) \_\_\_\_\_ as of 2018, India holds (2) \_\_\_\_\_ 11.5% of all the flora in the world. Now, a new fossil record has (3) \_\_\_\_\_ that India is the birthplace of Asian bamboo, and they (4) \_\_\_\_\_ formed about 25 million years ago in the north-eastern (5) \_\_\_\_\_ of the country.

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

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

---

75. 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)

With over 49,000 plant species (1) \_\_\_\_\_ as of 2018, India holds (2) \_\_\_\_\_ 11.5% of all the flora in the world. Now, a new fossil record has (3) \_\_\_\_\_ that India is the birthplace of Asian bamboo, and they (4) \_\_\_\_\_ formed about 25 million years ago in the north-eastern (5) \_\_\_\_\_ of the country.

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

- a. beside
- b. part
- c. bit
- d. type

## General Awareness

76. In which state of India is Sekrenyi Festival celebrated? (+1, -0.25)

- a. Nagaland
  - b. Rajasthan
  - c. Tamil Nadu
  - d. Bihar
- 

77. \_\_\_\_\_ is an Indian sport in which a 'raider' enters the opposite team's half totag opponents, without taking a breath. (+1, -0.25)

- a. Kho-Kho
  - b. Kabaddi
  - c. Mallakhamb
  - d. Throwball
- 

78. Who among the following is popularly known as 'Panchamda'? (+1, -0.25)

- a. Zakir Hussain
  - b. Jagjit Singh
  - c. AR Rahman
  - d. RD Burman
-

79. With respect to the seasons in India, the term 'Kaal Baisakhi' is related to which of the following states in India? (+1, -0.25)

- a. West Bengal
- b. Karnataka
- c. Punjab
- d. Kerala

80. Which of the following is the earliest form of Veda? (+1, -0.25)

- a. Atharva Veda
- b. Sama Veda
- c. Yajur Veda
- d. Rig Veda

81. Who among the following has been appointed as India's Foreign Secretary effective from 1 May 2022? (+1, -0.25)

- a. Vinay Mohan Kwatra
- b. Harsh Vardhan Shringla
- c. Subrahmanyam Jaishankar
- d. Sujata Mehta

82. As per Census 2011, which of the following states of India has the lowest literacy rate? (+1, -0.25)

- a. Kerala
  - b. Andhra Pradesh
  - c. Tamil Nadu
  - d. Bihar
- 

83. 'Mudiyettu' is a traditional folk theatre form of which Indian state? (+1, -0.25)

- a. Manipur
  - b. Kerala
  - c. Jharkhand
  - d. Assam
- 

84. Rohini Bhate, recipient of Kalidas Samman was associated with which classical dance of India? (+1, -0.25)

- a. Odissi
  - b. Manipuri
  - c. Sattriya
  - d. Kathak
-

85. As announced in the Union Budget of Financial Year 2022, income from virtual digital assets will be taxed at \_\_\_\_\_ **(+1, -0.25)**
- a. 2%
  - b. 25%
  - c. 35%
  - d. 30%
- 

86. Vinod talks about the only planet with liquid water on the surface. Which of the following planets is he talking about? **(+1, -0.25)**
- a. Earth
  - b. Venus
  - c. Mars
  - d. Saturn
- 

87. Which of the following cell organelles functions both as a passageway for intracellular transport and as a manufacturing surface? **(+1, -0.25)**
- a. Golgi Apparatus
  - b. Lysosome
  - c. Mitochondria
  - d. Endoplasmic Reticulum
-



88. Which of the following is a famous example of a temple built in complete Dravidian style? (+1, -0.25)
- a. Konark Sun temple, Konark
  - b. Kandariya Mahadeo temple at Khajuraho
  - c. Kamakhya temple at Guwahati
  - d. Kailasa temple at Ellora
- 

89. Who among the following began the Suddhi Movement, which enabled the Hindus who had accepted Islam or Christianity to return to Hinduism, their original faith? (+1, -0.25)
- a. Ramakrishna Paramhansa
  - b. Keshab Chandra Sen
  - c. Narendra Nath Dutta
  - d. Dayanand Saraswati
- 

90. Which of the following is NOT a part of the Preamble of India? (+1, -0.25)
- a. Liberty
  - b. Equality
  - c. Aristocracy
  - d. Justice
-

91. Who among the following was the first Muslim woman ruler of medieval India from 1236 to 1240 AD? (+1, -0.25)
- a. Razia Sultana
  - b. Rani Mangammal
  - c. Sultana Chand Bibi
  - d. Begum Samru
- 

92. New Zealand defeated India in the finals of the inaugural World Test Championship in June 2021. Which country hosted this match? (+1, -0.25)
- a. South Africa
  - b. England
  - c. Australia
  - d. New Zealand
- 

93. What was the former name of the Yamuna Expressway Project constructed in Uttar Pradesh, India? (+1, -0.25)
- a. Purvanchal Expressway
  - b. Taj Expressway
  - c. Noida-Agra Expressway
  - d. Kennedy Expressway
-

94. 'Straight from the Heart' is the autobiography of which of the following famous personalities? (+1, -0.25)

- a. Sunil Gavaskar
- b. Rahul Dravid
- c. Kapil Dev
- d. Sachin Tendulkar

95. Which of the following is the correct chemical formula of sodium aluminate? (+1, -0.25)

- a.  $\text{NaAlO}_2$
- b.  $\text{Na}_3\text{AlO}$
- c.  $\text{NaAlO}_3$
- d.  $\text{Na}_2\text{AlO}_3$

96. How many laws were repealed under the Farm Laws Repeal Bill, 2021? (+1, -0.25)

- a. One
- b. Three
- c. Two
- d. Four

97. The movement of people across regions and territories is called (+1, -0.25)

-----

- a. Depopulation
- b. migration
- c. mortality
- d. demographic transition

---

98. Which of the following statements is correct? (+1, -0.25)

- I. Robert Clive had come to Madras from England in 1743 at the age of 18.
- II. After the battle of Buxar, the East India Company appointed Residents in Indian states.

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

---

99. Which of the following statements is correct regarding 'Arthropoda'? (+1, -0.25)

- I. These animals are bilaterally symmetrical.
- II. They have jointed legs.

- a. Both I and II
- b. Neither I nor II

- c. Only II
- d. Only I

---

100. Article 280 of the Constitution of India talks about which constitutional body? (+1, -0.25)

- a. Goods and Service Tax Council
- b. Attorney General of India
- c. Finance commission
- d. Election commission of India

prepp

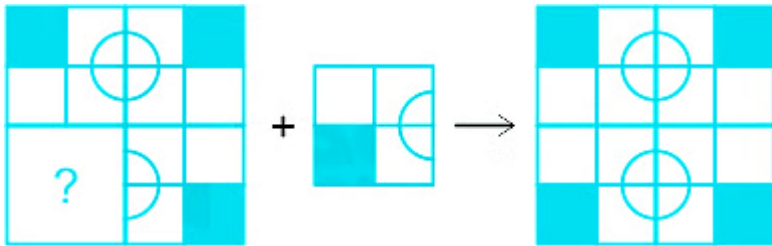
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## Answers

### 1. Answer: a

#### Explanation:

The image that complete the pattern is:



Hence, the correct answer is "Option 1".

### 2. Answer: d

#### Explanation:

The logic followed here is:

$$(1\text{st number} + 1) \times 3 = 2\text{nd number}.$$

Now,

$$32 : 99$$

$$\Rightarrow (32 + 1) \times 3 \rightarrow 33 \times 3 = 99.$$

For, 16 : 51

$$\Rightarrow (16 + 1) \times 3 \rightarrow 17 \times 3 = 51.$$

Similarly, for ? : 45

$$\Rightarrow (14 + 1) \times 3 \rightarrow 15 \times 3 = 45.$$

So, 14 : 45 is the related number.

Hence, the correct answer is "Option 4".

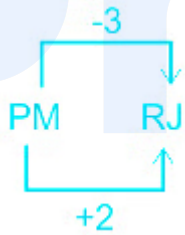
### 3. Answer: b

Explanation:

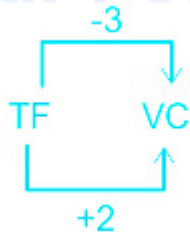
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, PM : RJ



Similarly, for TF : ?



So, 'TF' will be coded as 'VC'.

Hence, the correct answer is "Option 2".

### 4. Answer: d

**Explanation:**

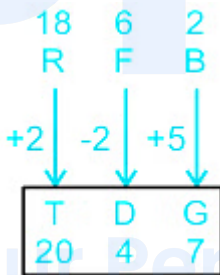
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, KIN : MGS



Similarly, for RFB : ?



So, 'RFB' will be coded as 'TDG'.

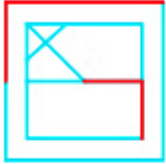







Hence, the correct answer is "Option 4".

**5. Answer: a**

**Explanation:**

The image embedded in given figure is as shown below:



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

Hence, "Option 2" is the correct answer.

**6. Answer: b**

**Explanation:**

Given equation:  $16 \div 7 \times 2 + 4 - 3 = 12$ .

BODMAS Table:

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

Let's check each option one by one.

Option 1) 2 and 4

Given:  $16 \div 7 \times 2 + 4 - 3 = 12$

After interchanging the numbers we get;

$\Rightarrow 16 \div 7 \times 4 + 2 - 3 = 12$

$\Rightarrow 2.29 \times 4 + 2 - 3 = 12$

$\Rightarrow 9.16 + 2 - 3 = 12$

$\Rightarrow 11.16 - 3 = 12$

$\Rightarrow 8.16 \neq 12$

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

Option 2) 7 and 4

Given:  $16 \div 7 \times 2 + 4 - 3 = 12$

After interchanging the numbers we get;

$\Rightarrow 16 \div 4 \times 2 + 7 - 3 = 12$

$\Rightarrow 4 \times 2 + 7 - 3 = 12$

$\Rightarrow 8 + 7 - 3 = 12$

$\Rightarrow 15 - 3 = 12$

$$\Rightarrow 12 = 12$$

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

Option 3) 16 and 2

$$\text{Given: } 2 \div 7 \times 16 + 4 - 3 = 12$$

After interchanging the numbers we get;

$$\Rightarrow \underline{2 \div 7} \times 16 + 4 - 3 = 12$$

$$\Rightarrow 0.29 \times 16 + 4 - 3 = 12$$

$$\Rightarrow \underline{4.64} + 4 - 3 = 12$$

$$\Rightarrow \underline{8.64} - 3 = 12$$

$$\Rightarrow 5.64 \neq 12$$

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

Option 4) 7 and 3

$$\text{Given: } 16 \div 7 \times 2 + 4 - 3 = 12$$

After interchanging the numbers we get;

$$\Rightarrow \underline{16 \div 3} \times 2 + 4 - 7 = 12$$

$$\Rightarrow \underline{5.33} \times 2 + 4 - 7 = 12$$

$$\Rightarrow \underline{10.66} + 4 - 7 = 12$$

$$\Rightarrow \underline{14.66} - 7 = 12$$

$$\Rightarrow 7.66 \neq 12$$

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

Hence, the correct answer is "Option 2".

7. Answer: b

Explanation:

The logic followed here is:



So, '154' will complete the series.

Hence, the correct answer is "154".

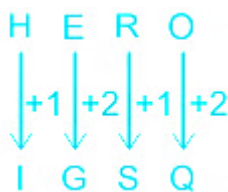
8. Answer: a

Explanation:

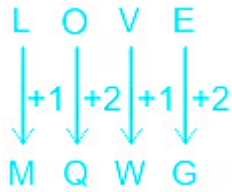
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

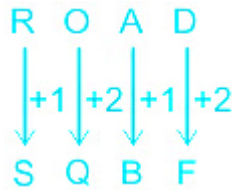
'HERO' is written as 'IGSQ',



For, 'LOVE' is written as 'MQWG',



Similarly, for ROAD:



So, 'ROAD' will be written as 'SQBF'.

Hence, the correct answer is "Option 1".

9. Answer: c

Explanation:

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

The logic followed here is:

Sum of the place value of the given letters = Number.

Now, 'AB CD' is coded as '10',

$$\Rightarrow A(1) + B(2) + C(3) + D(4)$$

$$\Rightarrow 1 + 2 + 3 + 4 = 10.$$

For, 'EG FA' is coded as '19',

$$\Rightarrow E(5) + G(7) + F(6) + A(1)$$

$\Rightarrow 5 + 7 + 6 + 1 = 19.$

Similarly, for 'JR LF'

$\Rightarrow J(10) + R(18) + L(12) + F(6)$

$\Rightarrow 10 + 18 + 12 + 6 = 46.$

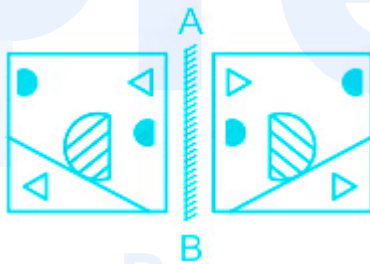
So, 'JR LF' will be coded as '46'.

Hence, the correct answer is "46".

10. Answer: b

Explanation:

The correct mirror image of the given figure is:

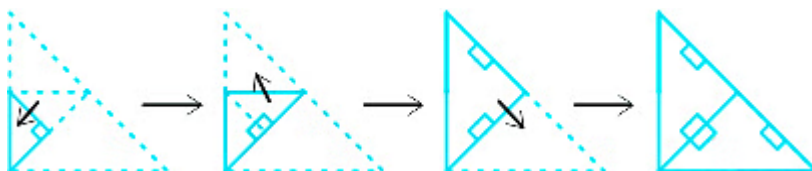


Hence, the correct answer is "Option 2".

11. Answer: b

Explanation:

The paper when unfolded will appear as shown below:



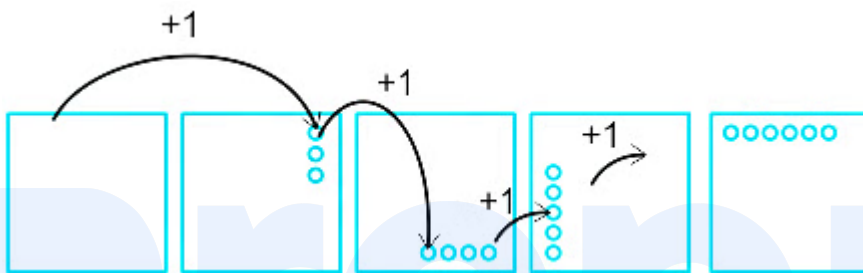
Hence, the correct answer is "Option 2".

12. Answer: a

Explanation:

The logic followed here is:

Step I:- Circles are increasing by +1 in each box.



Step II:- Middle image is rotating by  $45^\circ$  in the anticlockwise direction.



So, the series will be:



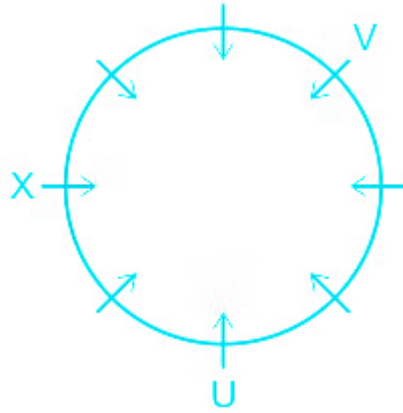
Hence, the correct answer is "Option 1".

13. Answer: c

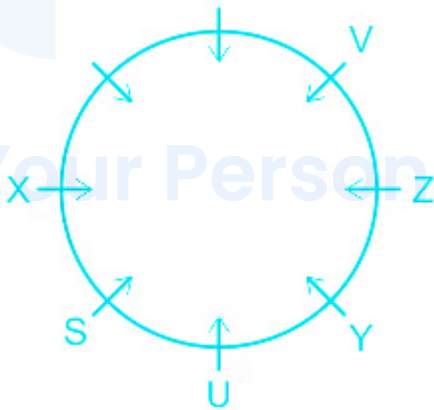
Explanation:

Given: Eight girls X, Y, Z, U, V, W, S and T.

- 1) X is second to the left of U.
- 2) U is third to the left of V.

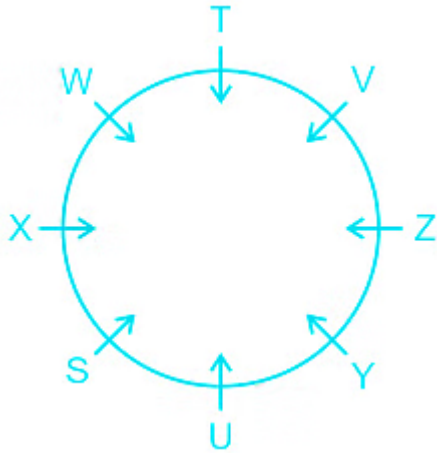


- 3) S is not the immediate neighbor of V.
- 4) Z is third to the right of S.
- 5) Y is second to the right of S.



- 6) T is third to the right of Y.





Option 1: YS → S sits second to the left of Y.

Option 2: WV → V sits second to the left of W.

**Option 3: YZ → Z sits immediately right of Y.**

Option 4: UX → X sits second to the left of U.

So, YZ does NOT belong to that group.

Hence, the correct answer is "Option 3".

**14. Answer: a**

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**Explanation:**

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

The logic followed here is:

**Letters is getting reversed .**

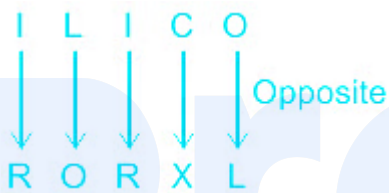
Now, 'OVERT' is written as 'LEVIG'.



For, 'MOKIN' is written as 'NLPRM'.



Similarly, for 'ILICO'



So, 'ILICO' will be written as 'RORXL'.

Hence, the correct answer is "Option 1".

15. Answer: b

Four Personal Exams Guide

**Explanation:**

Statement:

No forests are trees.

Some trees are short.

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



Conclusions:

(i) Some forests are short - False (Because No direct relation given between Forest and Short, so it can be possible not definite).

(ii) No tree is a forest - True (Because No forests are trees ).

Here, Only conclusion II follows.

Hence, the correct answer is "Option 2" .

16. Answer: a

**Explanation:**

The logic followed here is:

Given:

'Red are sweet brown' is coded as '8 6 4 2',

'Blue moon are white' is coded as '5 3 1 2'.

Red are sweet brown → 8 6 4 2

Blue moon are white → 5 3 1 2

Here, 'are' is coded as '2'.

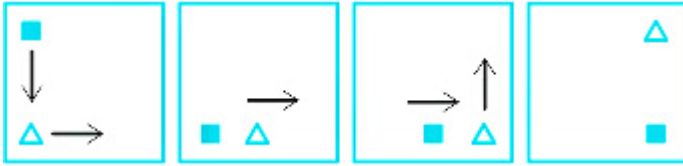
Hence, the correct answer is "Option 1" .

17. Answer: b

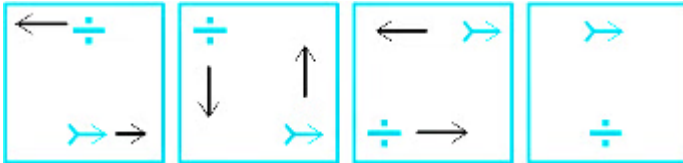
**Explanation:**

The logic followed here is:

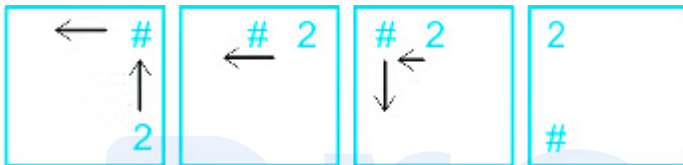
Step I:-



Step II:-



Step III:-



So, the series will be:



Hence, the correct answer is "Option 2".

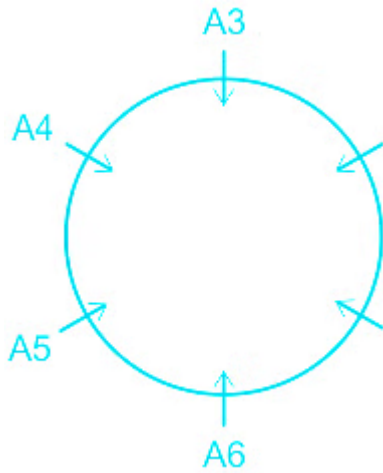
Your Personal Exams Guide

18. Answer: b

Explanation:

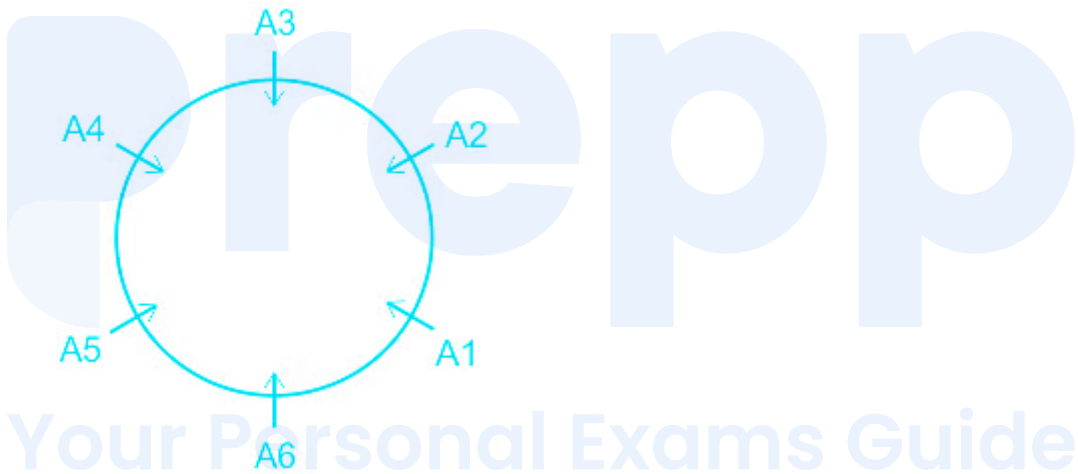
Given: Six boys A1, A2, A3, A4, A5 and A6.

- 1) A6 is to the immediate right of A5.
- 2) A5 and A3 are neighbors of A4.



3) A4 is the third to the left of A1.

And, A2 will be placed at the remaining place.



So, A3 is sitting third from the left of A6.

Hence, the correct answer is "A3".

19. Answer: d

Explanation:

The logic followed here is:



So, 90 is the wrong number in the given series, it will be 75.

Hence, the correct answer is "Option 4".

20. Answer: d

**Explanation:**

Given: Seven teachers M, N, O, P, Q, R and S.

- 1) Q takes the least number of tuitions.
- 2) S takes the second lowest number of tuitions.
- 3) R takes the second highest number of tuitions.

$$\_ \_ > R > \_ \_ > \_ \_ > \_ \_ > S > Q$$

- 4) O takes is less than only that of four teachers.

$$\_ \_ > R > \_ \_ > \_ \_ > O > S > Q$$

- 5) N takes less tuitions than P but more than M.

$$P > R > N > M > O > S > Q$$

So, M and O taken tuitions between N and S.

Hence, the correct answer is "Option 4".

21. Answer: b

**Explanation:**

BODMAS Table:

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

Given equation:  $12 \times 4 + 3 \div 6 - 2$

Now, if '4 and 12' and '÷ and +' are interchanged, then:

$\Rightarrow 4 \times \underline{12} \div \underline{3} + 6 - 2$

$\Rightarrow \underline{4 \times 4} + 6 - 2$

$\Rightarrow \underline{16 + 6} - 2$

$\Rightarrow \underline{22 - 2} = 20.$

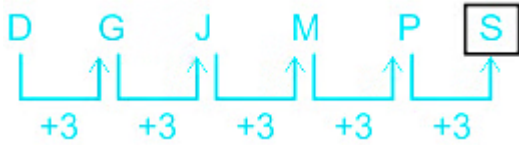
Hence, the correct answer is "Option 2".

**22. Answer: b**

**Explanation:**

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

The logic followed here is:



So, 'S' will complete the series.

Hence, the correct answer is "S".

**23. Answer: a**

**Explanation:**

The logic followed here is:

$$(1\text{st number} + 2\text{nd number})^2 = 3\text{rd number} .$$

Now,

$$(2, 3, 25)$$

$$\Rightarrow (2 + 3)^2 \rightarrow 5^2 = 25$$

For (3, 4, 49)

$$\Rightarrow (3 + 4)^2 \rightarrow 7^2 = 49.$$

Now, checking the options:

**Option 1: (4, 5, 81)**

$$\Rightarrow (4 + 5)^2 \rightarrow 9^2 = 81.$$

**Option 2: (4, 5, 91)**

$$\Rightarrow (4 + 5)^2 \rightarrow 9^2 = 81 \neq 91 .$$

**Option 3: (4, 6, 110)**

$$\Rightarrow (4 + 6)^2 \rightarrow 10^2 = 100 \neq 110 .$$



Option 4: (4, 7, 11)

$$\Rightarrow (4 + 7) \times 2 \rightarrow 11 \times 2 = 22 \neq 11$$

Hence, the correct answer is "Option 1".

**24. Answer: d**

**Explanation:**

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

The logic followed here is:

**Letter and its Place Value .**

B 2  $\Rightarrow$  Place value of B is 2.

F 6  $\Rightarrow$  Place value of F is 6.

K 11  $\Rightarrow$  Place value of K is 11.

O 15  $\Rightarrow$  Place value of O is 15.

R 18  $\Rightarrow$  Place value of R is 18.

Similarly,

V 22  $\Rightarrow$  Place value of V is 22.

So, V 22 is the next similar term.

Hence, the correct answer is "V 22".

**25. Answer: a**

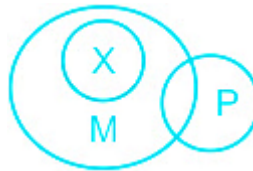
**Explanation:**

Statements:

I. Some M are P.

II. All X are M.

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



Conclusions:

(i) Some P are X – False (Because no direct related given between P and X, so it can be possible not definite).

(ii) Some P are M – **True** (Because Some M are P, so some P are also M ).

(III) No P is X – False (Because, negative conclusion can't be definitely true in positive statement).

Here, Only conclusion II follows.

Hence, the correct answer is "Option 1" .

---

**26. Answer: b**

**Explanation:**

Given:

A boat can travel 42 km in 6 hours while going upstream.

The speed of the stream is 2km/h.

Concept used:

1. While rowing upstream, the upstream speed is the difference between the speed of the boat in still water and the speed of the flow.
2. While rowing downstream, the downstream speed is the addition of the speed of the boat in still water and the speed of the flow.
3. Distance = Speed  $\times$  Time

Calculation:

$$\text{Upstream speed} = 42/6 = 7 \text{ km/h}$$

$$\text{So, the speed of the boat in still water} = 7 + 2 = 9 \text{ km}$$

$$\text{Downstream speed} = 9 + 2 = 11 \text{ km/h}$$

$$\text{Now, the distance covered by the boat in 12 hours} = 11 \times 12 = 132 \text{ km}$$

$\therefore$  The distance covered by the boat in 12 hours is 132 km.

---

**27. Answer: b**

**Explanation:**

Given:

$$[12 \times 5 - \{200 - (501 + 247 - 386)\}] \div 2$$

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:

$$[12 \times 5 - \{200 - (501 + 247 - 386)\}] \div 2$$

$$\Rightarrow [12 \times 5 - \{200 - 362\}] \div 2$$

$$\Rightarrow [12 \times 5 - (-162)] \div 2$$

$$\Rightarrow [60 + 162] / 2$$

$$\Rightarrow 222 / 2$$

$$\Rightarrow 111$$

∴ The simplified value is 111.

**28. Answer: b**

**Explanation:**

Given:

The perimeter of an equilateral triangle is 36 cm.

Concept used:

1. An equilateral triangle is a triangle that has all its sides equal in length.

2. The perimeter of an equilateral triangle equals three times the measure of each side.

3. Area of an equilateral triangle =  $\frac{\sqrt{3}}{4} \times (\text{Side})^2$

Calculation:

The measure of each side =  $36/3 = 12$  cm

Now, the area of the triangle =  $\frac{\sqrt{3}}{4} \times 12^2 = 36\sqrt{3}$  cm<sup>2</sup>

∴ The area of this triangle is  $36\sqrt{3}$  cm<sup>2</sup>.

29. Answer: d

Explanation:

Given:

A can do a work in 10 days and B can do the same work in 15 days.

Concept used:

If A and B take x and y days to complete a task independently, alone they will get the work done in =  $\frac{xy}{(x + y)}$  days

Calculation:

Working together they can complete the work in

$$\Rightarrow \frac{(10 \times 15)}{(10 + 15)}$$

$$\Rightarrow 6 \text{ days}$$

In 6 days, 100% of the work is done.

In 4 days, the work will be done

$$\Rightarrow (100/6 \times 4)\%$$

$\Rightarrow 400/600$

$\Rightarrow 2/3$  fraction of the original work

Now, the fraction of the work that is left =  $1 - 2/3 = 1/3$

$\therefore$  The fraction of the work that is left is  $\frac{1}{3}$ .

---

**30. Answer: d**

**Explanation:**

Given:

The average of 11 observations is 10, that of the first 6 being 9 and that of the last 6 being 11.

Concept used:

Total = Average  $\times$  Number of entities

Calculation:

Sum of 11 observations =  $11 \times 10 = 110$

Sum of the first 6 observations =  $6 \times 9 = 54$

Sum of the last 6 observations =  $6 \times 11 = 66$

Now, the 6<sup>th</sup> observation =  $(54 + 66 - 110) = 10$

$\therefore$  The 6<sup>th</sup> observation is 10.

---

**31. Answer: d**

**Explanation:**

Given:

$$0.04 : 0.06 :: 0.06 : A$$

Concept used:

$$\text{If } A : B :: C : D \text{ then } (B \times C) = (A \times D)$$

Calculation:

$$(0.06)^2 = 0.04 \times A$$

$$\Rightarrow 0.0036 = 0.04 \times A$$

$$\Rightarrow A = 0.09$$

$\therefore$  The value of A is 0.09.

---

### 32. Answer: c

#### Explanation:

Given:

The diagonal of a rectangle is 12 cm long, and it is twice as long as one of the sides of the rectangle.

Concept used:

1. Area of a rectangle = Length  $\times$  Breadth

2. Measure of each diagonal of a rectangle =  $\sqrt{\text{Length}^2 + \text{Breadth}^2}$

Calculation:

Measure of one side of the rectangle =  $12/2 = 6$  cm

Let the measure of the other side of the rectangle be Q cm.

According to the concept,

$$\sqrt{Q^2 + 6^2} = 12^2$$

$$\Rightarrow Q^2 + 36 = 144$$

$$\Rightarrow Q^2 = 108$$

$$\Rightarrow Q = 6\sqrt{3}$$

Now, the area of the rectangle =  $6 \times 6\sqrt{3} = 36\sqrt{3} \text{ cm}^2$

$\therefore$  The area of the rectangle is  $36\sqrt{3} \text{ cm}^2$ .

### 33. Answer: b

#### Explanation:

Given:

$$A = \frac{1}{2} \div \frac{1}{3} \times \frac{1}{4} + \frac{1}{5} \times \frac{1}{6}$$

$$B = \frac{1}{6} \div \frac{1}{3} \times \frac{1}{5} + \frac{1}{4} \times \frac{1}{2}$$

Concept used:

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

Calculation:

$$A = \frac{1}{2} \div \frac{1}{3} \times \frac{1}{4} + \frac{1}{5} \times \frac{1}{6}$$



$$\Rightarrow A = \frac{3}{2} \times \frac{1}{4} + \frac{1}{5} \times \frac{1}{6}$$

$$\Rightarrow A = \frac{3}{8} + \frac{1}{30}$$

$$\Rightarrow A = \frac{49}{120}$$

$$B = \frac{1}{6} \div \frac{1}{3} \times \frac{1}{5} + \frac{1}{4} \times \frac{1}{2}$$

$$\Rightarrow B = \frac{1}{2} \times \frac{1}{5} + \frac{1}{4} \times \frac{1}{2}$$

$$\Rightarrow B = \frac{1}{10} + \frac{1}{8}$$

$$\Rightarrow B = \frac{9}{40}$$

Now, (A - B)

$$\Rightarrow \frac{49}{120} - \frac{9}{40}$$

$$\Rightarrow \frac{49-27}{120}$$

$$\Rightarrow \frac{22}{120}$$

$$\Rightarrow \frac{11}{60}$$

$\therefore$  The value of (A - B) is  $\frac{11}{60}$ .

## Your Personal Exams Guide

### 34. Answer: b

#### Explanation:

Given:

Principal amount = Rs. 6000

Rate of interest = 6.2% p.a.

Time = 2 years 6 months = 2.5 years

Concept used:

Simple Interest,  $SI = (P \times R \times T)/100$

Amount =  $P + SI$

where

P = Principal amount

R = Rate of interest per year

T = Time in years

Calculation:

Now, after 2.5 years, the person will get

$$\Rightarrow 6600 + (6600 \times 6.2 \times 2.5)/100$$

$$\Rightarrow 6600 + 1023$$

$$\Rightarrow \text{Rs. } 7623$$

$\therefore$  He can get Rs. 7,623.

### 35. Answer: c

Your Personal Exams Guide

#### Explanation:

Given:

P starts from A at 6 a.m. and reaches B after 8 hours.

Q starts from B at 8 a.m. and reaches A after 9 hours.

Concept used:

1. Time taken to meet for two objects coming towards each other =  $\frac{\text{Intermediary distance}}{\text{Relative speed}}$

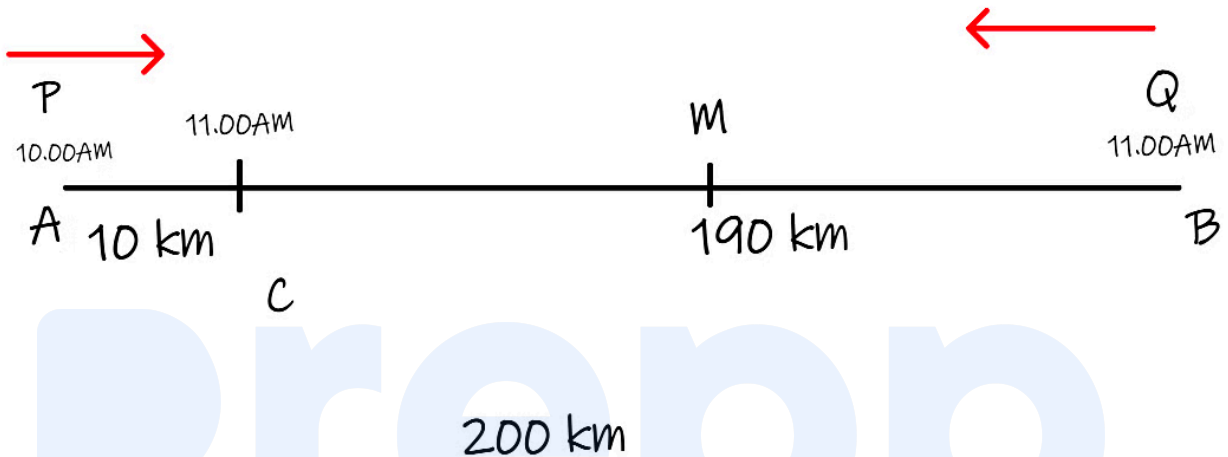
2. Distance = Speed  $\times$  Time

Calculation:

Let the distance between A and B be  $72w$  km.

Speed of P =  $72w/8 = 9w$  km/h

Speed of Q =  $72w/9 = 8w$  km/h



Time difference = 08.00 a.m. - 06.00 a.m. = 2 hours

Since the speed of P is  $9w/h$ ,  $AC = 9w \times 2 = 18w$  km

At 08.00 a.m., P is at C.

At 08.00 a.m., the distance between P and Q =  $72w - 18w = 54w$  km

Time taken by them to meet at M =  $54w / (9w + 8w) = 54/17$  hours

So,

$$CM = (54/17 \times 9w) = 486/17$$

$$AM = AC + CM = 18w + 486w/17 = 792w/17$$

$$BM = (54/17 \times 8w) = 432w/17$$

Now, the ratio of the distance travelled by Q to the distance travelled by P

⇒ BM : AM

⇒  $432w/17 : 792w/17$

⇒ 6 : 11

∴ The ratio of the distance travelled by Q to the distance travelled by P is 6 : 11.

---

**36. Answer: c**

**Explanation:**

Given:

On an 18% discount sale, an article costs Rs. 6,560.

Concept used:

Selling Price = Marked Price × (1 - Discount%)

Calculation:

Now, the marked price of the article =  $6560 \div (1 - 18\%) = \text{Rs. } 8000$

∴ The marked price of the article is Rs. 8000.

---

**37. Answer: a**

**Explanation:**

Given:

4 boys or 7 girls can complete a piece of work in 18 days.

Concept used:

Total work = Number of workers  $\times$  Efficiency of each worker  $\times$  Days to complete the work

Calculation:

Let the efficiency of each boy and girl be B and G respectively.

According to the concept,

$$4B = 7G$$

$$\Rightarrow B/G = 7/4$$

So, the efficiencies of each boy and girl be  $7k$  and  $4k$  respectively. ( $k = \text{constant}$ )

Total work =  $(4 \times 7k \times 18)$  units

Now, to complete the job, 12 boys and 21 girls together will take

$$\Rightarrow (4 \times 7k \times 18) \div (12 \times 7k + 21 \times 4k)$$

$$\Rightarrow 3 \text{ days}$$

$\therefore$  12 boys and 21 girls together will take 3 days to complete this job.

---

38. **Answer: a**

## Your Personal Exams Guide

### Explanation:

Given:

The number of boys in a class is 45% of the total number of students in the class.

The number of girls in the class is 33.

Calculation:

$$\text{Percentage of the girls} = 100 - 45 = 55\%$$

$$\text{So, the total number of students in the class} = 33 \div 55\% = 60$$

Now, the number of boys in the class =  $60 \times 45\% = 27$

$\therefore$  The number of boys in the class is 27.

---

### 39. Answer: c

#### Explanation:

Given:

A solid sphere whose radius is 21 cm is melted and recast into a regular pyramid of a square base.

Height of the pyramid is 66.

Concept used:

1. Volume of a sphere =  $\frac{4\pi R^3}{3}$  (R is the radius of the sphere)

2. Volume of a pyramid with a square base =  $\frac{B^2 H}{3}$  (B = Measure of each side of the base of the pyramid and H = Height)

3. Since the sphere is recast into a regular pyramid, the volume of both of the solids will remain the same.

Calculation:

Let the measure of each side of the base of the pyramid be B.

According to the concept,

$$\frac{B^2 \times 66}{3} = \frac{4\pi \times 21^3}{3}$$

$$\Rightarrow B^2 \times 66 = 4 \times \frac{22}{7} \times 21^3$$

$$\Rightarrow B^2 = (4 \times \frac{22}{7} \times 21^3) / 66$$

$$\Rightarrow B^2 = 1764$$

$$\Rightarrow B = 42$$

$\therefore$  The length of each side of the base of the pyramid is 42 cm.

---

**40. Answer: c**

**Explanation:**

Given:

120 apples, 240 oranges and 150 pears are packed in cartons in such a way that each carton has the same number of fruits, each carton contains only one type of fruit, and no fruit is left unpacked.

Concept used:

HCF of two or more numbers is the greatest factor that divides the numbers.

Calculation:

$$\text{HCF}(120, 240, 150) = 30$$

Now, the smallest possible number of cartons needed for the purpose

$$\Rightarrow 120/30 + 240/30 + 150/30$$

$$\Rightarrow 4 + 8 + 5$$

$$\Rightarrow 17$$

$\therefore$  The smallest possible number of cartons needed for the purpose is 17.

---

**41. Answer: c**

**Explanation:**

Given:

Two mixers and one TV cost Rs. 500, while two TVs and one mixer cost Rs. 700.

Calculation:

According to the question,

$$2 \text{ Mixer} + 1 \text{ TV} = 500 \quad \dots(1)$$

$$2 \text{ TV} + 1 \text{ Mixer} = 700$$

$$\Rightarrow 4 \text{ TV} + 2 \text{ Mixer} = 1400 \quad \dots(2)$$

$$\text{So, } (2) - (1),$$

$$3 \text{ TV} = 900$$

$$\Rightarrow 1 \text{ TV} = 900/3$$

$$\Rightarrow 1 \text{ TV} = 300$$

$\therefore$  The cost of one TV is Rs. 300.

---

**42. Answer: d**

**Explanation:**

Calculation:

So, the average number of shoes sold of the other 6 brands

$$\Rightarrow (42 + 58 + 61 + 49 + 71 + 49)/6$$

$$\Rightarrow 55$$

$$\text{Now, the number of shoes sold of B7} = 55(1 + 20\%) = 66$$

$\therefore$  The number of shoes sold of B7 is 66.



43. Answer: d

**Explanation:**

Given:

The average of seven numbers is 20.

2 is subtracted from each number.

Calculation:

Since each number is reduced by 2, the average itself will get reduced by 2.

Now, the new average =  $20 - 2 = 18$

$\therefore$  The new average will be 18.

---

44. Answer: c

**Explanation:**

Calculation:

15% of the pie chart represents Rs. 18000.

So, 100% of the pie chart represents =  $18000/15 \times 100 = \text{Rs. } 1,20,000$

Now, his savings =  $120000 \times 23\% = \text{Rs. } 27600$

$\therefore$  His savings would be Rs. 27600.

---

45. Answer: b

**Explanation:**

Calculation:

$$\text{Number of beds in Y6} = 800(1 + 20\%) = 960$$

$$\text{Number of beds in Y7} = 960(1 + 25\%) = 1200$$

Now, the ratio of the number of hospital beds in Y2 to the number of hospital beds in Y7

$$\Rightarrow 640 : 1200$$

$$\Rightarrow 8 : 15$$

$\therefore$  The ratio of the number of hospital beds in Y2 to the number of hospital beds in Y7 is 8 : 15.

46. Answer: b

Explanation:

Given:

$$A : B = 12 : 17$$

A is 20% more than C.

B is 15% less than D.

Concept used:

$$\text{Incremented/Reduced value} = \text{Initial value} (1 \pm \text{change}\%)$$

Calculation:

$$\text{Let, } A = 12 \text{ and } B = 17$$

So,

$$C = 12 / (1 + 20\%) = 10$$

$$D = 17 / (1 - 15\%) = 20$$

Now, the required percentage =  $10 / 20 \times 100\% = 50\%$

$\therefore$  C is 50% of D.

---

**47. Answer: c**

**Explanation:**

Given:

The average weight of all the 200 employees in an office is 68.2 kg, where  $\frac{2}{5}$  of the employees are ladies and the ratio of the average weight of a man to that of a woman is 7 : 5.

Concept used:

Total = Average  $\times$  Number of entities

Calculation:

$$\text{Number of female employees} = 200 \times \frac{2}{5} = 80$$

$$\text{Number of male employees} = 200 - 80 = 120$$

$$\text{Total weight of 200 employees} = 200 \times 68.2 = 13640 \text{ kg}$$

Let the average weight of a male and female employee be 7k and 5k respectively.

According to the question,

$$(80 \times 5k) + (120 \times 7k) = 13640$$

$$\Rightarrow 400k + 840k = 13640$$

$$\Rightarrow 1240k = 13640$$

$$\Rightarrow k = 13640 / 1240$$

$$\Rightarrow k = 11$$

$$\Rightarrow 5k = 55$$

$\therefore$  The average weight of a female employee is 55 kg.

**48. Answer: b**

**Explanation:**

Given:

The population of a town is increasing at a rate of 10% per year.

The present population of the town is 1,00,000.

Concept used:

In case of the compound interest,

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

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

where **Your Personal Exams Guide**

P = Principal amount

R = Rate of interest per year

N = Time in years

Calculation:

Now, its population will be 2 years from now

$$\Rightarrow 100000(1 + 10/100)^2$$

$$\Rightarrow 1,21,000$$

∴ Its population will be 1,21,000, 2 years from now.

---

**49. Answer: d**

**Explanation:**

Given:

Raju sells an object at 20% below its cost price.

If he sold it for Rs. 450 more, he would have made a profit of 25%.

Concept used:

1. Selling Price = Cost Price  $\times$  (1 + Gain%)

2. Selling Price = Cost Price  $\times$  (1 - Loss%)

Calculation:

Let the cost price of the product be Q.

According to the concept,

$$Q(1 - 20\%) + 450 = Q(1 + 25\%)$$

$$\Rightarrow 1.25Q - 0.8Q = 450$$

$$\Rightarrow 0.45Q = 450$$

$$\Rightarrow Q = 450/0.45$$

$$\Rightarrow Q = 1000$$

Now, the original selling price =  $1000(1 - 20\%) = \text{Rs. } 800$

∴ The original selling price of the product is Rs. 800.

---

50. Answer: d

**Explanation:**

Given:

The ratio of the number of boys and girls in a school is 5 : 8.

There are 260 students in the school.

Calculation:

Let there be 5k boys and 8k girls.

Total student =  $5k + 8k = 13k$

Difference between the number of girls and boys in the school =  $8k - 5k = 3k$

According to the concept,

$$13k = 260$$

$$\Rightarrow k = 260/13$$

$$\Rightarrow k = 20$$

$$\Rightarrow 3k = 60$$

$\therefore$  The difference between the numbers of girls and boys in the school is 60.

51. Answer: b

**Explanation:**

The erroneous part is 'is usual harvested'.

★ Key Points

- The given sentence is grammatically incorrect.
- Here, '**is usually harvested**' should be used instead of '**is usual harvested**'.
- '**harvested**' is a verb. Hence, the part of speech that should modify it should be an **adverb**.
- In the given sentence '**usual**' is an **adjective**. Hence, it must be replaced by 'usually' (adverb).
- Thus, the correct answer is **Option 2**.

Correct Sentence: *The jute plant is **usually** harvested when it is at the flowering stage.*

52. Answer: c

Explanation:

The correct answer is '**A short distance**'.

★ Key Points

- The most appropriate meaning of the given idiom '**a stone's throw**' is '**a short distance**'.
- **At a stone's throw:** a short distance. (थोड़ी दूरी)
  - Example: *The Sea Life Centre is just **a stone's throw** from the sea itself.*

Correct Answer: *A short distance.*

53. Answer: b

Explanation:

The correct answer is '**Fragile**'.

★ Key Points

- The most appropriate word for the given group of words is '**Fragile**'.
- **Fragile**: easily damaged or broken. (सहज क्षतिग्रस्त होने या टूट जाने वाला; भंगुर)

- *Example: Her health has always been very **fragile**.*
- Let's look at the meaning of other words:
  - **Durable** : likely to last for a long time without breaking or getting weaker. (टिकाऊ, स्थायी)
  - **Portable** : that can be moved or carried easily. (जिसे आसानी से हिलाया या कहीं ले जाया जा सके; सुवाह्य)
  - **Stern** : very serious; not smiling. (कठोर, बहुत गंभीर; मुस्कान-रहित)

Correct Answer

---

54. Answer: a

**Explanation:**

The erroneous part is 'She say that she feels very'.

★ Key Points

- The given sentence is grammatically incorrect.
- Here, '**She says that she feels very**' should be used instead of 'She say that she feels very'.
- In the given sentence ' **She** ' is **a singular subject** . So, it should be followed by **a singular helping verb** which is '**says**' .
- Thus, the correct answer is **Option 1**.

Correct Sentence:*She says that she feels very lonely and depressed living in a big house.*

---

55. Answer: a

**Explanation:**

The erroneous part is 'I am currently worked'.

★ Key Points



- The given sentence is grammatically incorrect.
- Here, 'I am currently working' should be used instead of 'I am currently worked'.
- The given sentence is an example of the **present continuous tense**.
- The **present continuous tense** is a grammatical **tense** that can be used to describe when an action happened or may happen.
  - *Example: Children are going to school.*

Correct Sentence: *I am currently working with a newly set up marketing company.*

56. Answer: a

Explanation:

The correct answer is 'Permit'.

★ Key Points

- The most appropriate synonym of the given word 'Concede' is 'Permit'.
- **Concede** : to admit that something is true although you do not want to. (किसी सचाई को न चाहते हुए भी मान लेना; स्वीकार करना)
  - *Example: When it was clear that he would lose the election, he **conceded** defeat.*
- **Permit** : to allow somebody to do something or to allow something to happen. (किसी बात की अनुमति देना या कोई बात होने देना)
  - *Example: You are not **permitted** to smoke in the hospital.*

Correct Answer: *Permit.*

★ Additional Information

- Let's look at the meaning of other words:
  - **Reject** : to refuse to accept somebody/something. [व्यक्ति या वस्तु को अस्वीकार करना (मानने से इनकार करना)]
  - **Deny** : to state that something is not true; to refuse to admit or accept something. (किसी बात से इनकार करना; किसी बात को नकारना)

- **Fascinate** : to attract or interest somebody very much. (आकृष्ट करना या रुचि जगाना; मोहित करना)

57. Answer: b

**Explanation:**

The correct answer is ' **resist** '.

★ Key Points

- The most appropriate synonym of the given word ' **Protest** ' is ' **Resist** '.
- **Protest** : a statement or action that shows that you do not like or approve of something. (किसी बात की नापसंदगी या अस्वीकृति दिखाने वाला वक्तव्य या कार्य; विरोध)
  - *Example: He resigned in **protest** against the decision.*
- **Resist** : to try to stop something happening or to stop somebody from doing something; to fight back against something/somebody. (कुछ घटित होने से या किसी को कुछ करने से रोकने की कोशिश करना; व्यक्ति या वस्तु का प्रतिरोध या विरोध करना)
  - *Example: The government is resisting pressure to change the law.*

Correct Answer: *resist.*

★ Additional Information

- Let's look at the meaning of other words:
  - **assent** : official agreement to something. (अधिकारिक स्वीकृति)
  - **validate** : to show that something is true. (किसी बात को सत्य सिद्ध करना)
  - **perk** : something extra that you get from your employer in addition to money. (वेतन के अतिरिक्त प्राप्त सुविधा या लाभ)

58. Answer: a

**Explanation:**

The correct answer is ' **Frailty** '.

★ Key Points

- The most appropriate word for the given group of words is ' **Frailty** '.
- **Frailty** : weakness of a person's body or character. (व्यक्ति के शरीर या चरित्र की दुर्बलता)
  - *Example: She died after a long period of increasing **frailty** .*
- Let's look at the meaning of other words:
  - **Geniality** : the quality of having a friendly and cheerful manner. (एक दोस्ताना और हंसमुख तरीके से होने की गुणवत्ता)
  - **Hospitality** : looking after guests and being friendly and welcoming towards them. (आतिथ्य-सत्कार, मेहमाननवाज़ी)
  - **Obscurity** : the state of being unknown, inconspicuous, or unimportant. (अप्रसिद्धि, दुर्बोधता)

Correct Answer:*Frailty.*

59. Answer: d

**Explanation:**

The correct answer is ' **Confess** '.

★ Key Points

- The most appropriate word for the given group of words is ' **Confess** '.
- It means 'to admit that you have done something bad or wrong'. (अपराध या दोष स्वीकार करना)
  - *Example: He **confessed** after being questioned for many hours.*
- Let's look at the meaning of other words:
  - **Suppress** : to stop something by using force. (बल के प्रयोग से किसी को शांत कर देना; दमन करना)
  - **Redress** : to correct something that is wrong or unfair. (सही करना, सुधार करना, ठीक करना)
  - **Assess** : to judge or form an opinion about something. (राय बनाना, आँकना)

Correct Answer:*Confess*

60. Answer: c

**Explanation:**

The correct answer is ' **Lopsided** '.

★ Key Points

- Among the given options the correctly spelt word is ' **Lopsided** '.
- It means 'with one side lower or smaller than the other'. (जिसका एक सिरा दूसरे से नीचा या छोटा हो; तिरछा, एकतरफ़ा)
  - Example: a **lopsided** smile...

Correct Answer: *Lopsided.*

★ Additional Information

- Let's look at the meaning and correct spelling of other words:
  - **Habitual** : doing something very often. (आदतन कुछ करने वाला, आदी, अभ्यस्त)
  - **Credential** : a qualification, achievement, quality, or aspect of a person's background, especially when used to indicate their suitability for something. (किसी व्यक्ति की पृष्ठभूमि की योग्यता, उपलब्धि, गुणवत्ता या पहलू, विशेष रूप से जब किसी चीज के लिए उनकी उपयुक्तता का संकेत दिया जाता है)
  - **Adventurous** : (used about a person) liking to try new things or have adventures. [(व्यक्ति) खतरे उठाने और नए-नए साहसिक काम करने को तैयार]

61. Answer: c

**Explanation:**

The correct answer is ' **Infallible** '.

★ Key Points

- The most appropriate word for the given group of words is ' **Infallible** '.

- It means '(used about a person) never making mistakes or being wrong'. [(व्यक्ति) जो कभी भूलें न करें या गलती पर न हो; अमोघ]
  - *Example: No computer is **infallible**.*
- Let's look at the meaning of other words:
  - **Pure** : not mixed with anything else. [शुद्ध (बिना मिलावट का)]
  - **Optimist** : a person who tends to be hopeful and confident about the future or the success of something. (आशावादी व्यक्ति)
  - **Naive** : without enough experience of life and too ready to believe or trust other people. (जिसे जीवन का पर्याप्त अनुभव नहीं और जो दूसरों पर तुरंत विश्वास या भरोसा कर लेता है; भोला-भाला)

Correct Answer:*Infallible.*

62. Answer: b

Explanation:

The correct answer is ' **ceiling** '.

★ Key Points

- The most appropriate word for the given blank is ' **ceiling** '.
- It means 'the top surface of the inside of a room'. (कमरे के भीतर से ऊपर दिखने वाली छत भीतरी छत, सीलिंग)
  - *Example: a room with a high/low **ceiling** ...*
- A **ceiling** is a horizontal surface that forms a room's top part or roof.
- Let's look at the meaning of other words:
  - **sealing** : to close or fasten a package, envelope, etc. (किसी पैकेट, लिफाफे आदि को बंद करना या बाँधना)
  - **seeding** : to produce seeds. (बीज पैदा करने के लिए)
  - **syringe** : a plastic or glass tube with a needle that is used for taking a small amount of blood out of the body or for putting drugs into the body. [प्लास्टिक या काँच से बनी सूई से युक्त एक नली; सिरिंज (इंजेक्शन लगाने के लिए प्रयुक्त)]
- Thus, the correct answer is **Option 2**.

Correct Sentence:*Danny lay on his back staring at the **ceiling** of his room.*

63. Answer: b

Explanation:

The correct answer is ' **Melodious** '.

★ Key Points

- The most appropriate word for the given group of words is ' **Melodious** '.
- It means 'pleasant to listen to, like music'. (श्रुतिमधुर, सुरीला)
  - *Example: a rich **melodious** voice...*

Correct Answer: *Melodious.*

★ Additional Information

- Let's look at the meaning of other words:
  - **Inspired** : influenced or helped by a particular feeling, thing or person. (विशेष मनोभाव, वस्तु या व्यक्ति द्वारा प्रेरित)
  - **Harsh** : very strict and unkind. (बहुत कठोर और निर्मम)
  - **Audible** : that can be heard. (श्रव्य; सुनी जा सकने योग्य)

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64. Answer: d

Explanation:

The correct answer is ' **Valiant** '.

★ Key Points

- The most appropriate antonym of the given word ' **Cowardly** ' is ' **Valiant** '.
- **Cowardly** : lacking courage. (साहस की कमी)
  - *Example: He was a weak, **cowardly** man.*
- **Valiant** : full of courage and not afraid. (साहसी और निर्भीक)
  - *Example: She died last year after a **valiant** battle with cancer.*

Correct Answer: *Valiant.*

★ Additional Information

- Let's look at the meaning of other words:
  - **Integral** : necessary in order to make something complete. (किसी वस्तु के पूर्ण बनाने के लिए अपेक्षित, संपूर्णता के लिए आवश्यक)
  - **Fleeting** : lasting for a very short time. (बहुत कम समय तक चलने वाला)
  - **Spineless** : weak and easily frightened. (दुर्बल और डरपोक)

65. Answer: c

**Explanation:**

The correct answer is ' **Ambiguous** '.

★ Key Points

- The most appropriate **antonym** of the given word ' **Lucid** ' is ' **Ambiguous** '.
- **Lucid** : (used about something that is said or written) clear and easy to understand. [(भाषण या लेखन) समझने में स्पष्ट और सरल, सुबोध]
  - *Example: a **lucid** style/description...*
- **Ambiguous** : having more than one possible meaning. (जिसके एक से अधिक अर्थ निकाले जा सकें; अनेकार्थता)
  - *Example: The election result was **ambiguous** .*

Correct Answer: *Ambiguous.*

★ Additional Information

- Let's look at the meaning of other words:
  - **Tangible** : that can be clearly seen to exist. (स्पष्ट और वास्तविक)
  - **Coherent** : (ideas, thoughts, etc.) clear and easy to understand; logical. [(विचार आदि) स्पष्ट और सुबोध; सुसंगत]
  - **Blazing** : to burn with bright strong flames. (चमकीली ज्वाला के साथ जलना)



66. Answer: a

Explanation:

The correct answer is ' **Incomplete** '.

★ Key Points

- The most appropriate **synonym** of the given word ' **Deficient** ' is ' **Incomplete** '.
- **Deficient** : not having enough of something. (हीन, किसी वस्तु का अभाव होना)
  - Example: food that is **deficient** in minerals...
- **Incomplete** : having a part or parts missing. (अपूर्ण, अधूरा)
  - Example: **incomplete** carvings of cattle...

Correct Answer: *Incomplete.*

★ Additional Information

- Let's look at the meaning of other words:
  - **Sleek** : (used about hair or fur) smooth and shiny because it is healthy. [(बाल या फ़र) चिकना और चमकदार]
  - **Whole** : complete; full. (पूरा, पूर्ण; सारा-का-सारा, समग्र)
  - **Integral** : necessary in order to make something complete. (किसी वस्तु के पूर्ण बनाने के लिए अपेक्षित, संपूर्णता के लिए आवश्यक)

67. Answer: b

Explanation:

The correct answer is ' **Agravate** '.

★ Key Points

- Among the given options the incorrectly spelt word is ' **Agravate** '.
- Its correct spelling is ' **Aggravate** '.



- It means 'to make something worse or more serious'. [(स्थिति को) बिगाड़ देना; बदतर करना या होना, अधिक गंभीर बनाना]
  - Example: She **aggravated** an old knee injury.

Correct Answer: Aggravate.

★ Additional Information

- Let's look at the meaning of other words:
  - **Admonish** : to tell somebody firmly that you do not approve of something that he/she has done. (डॉटना, फटकारना)
  - **Assertion** : a statement that says you strongly believe that something is true. (दृढ़ कथन, निश्चयपूर्वक कथन, दावा)
  - **Accumulate** : to collect a number or quantity of something over a period of time. (किसी कालावधि में किसी वस्तु को अच्छी मात्रा या संख्या में इकट्ठा कर लेना; संचय करना)

68. Answer: c

**Explanation:**

The correct answer is 'No substitution required'.

★ Key Points

- The underlined part in the given sentence is grammatically incorrect.
- Here, '**a few days later**' is correctly used.
- **Few** is a quantifier used with **plural countable nouns** . Without the article " **a**," few emphasize a small number of something. Adding the article removes the emphasis—a few means some.
  - Example: We stayed **a few days** in Florence and visited the museums.
- Thus, the correct answer is **Option 3**.

Correct Sentence: The missing child was discovered in lower Maryland **a few days later**.

69. Answer: b

### Explanation:

The correct answer is 'To initiate a chain of events'.

#### ★ Key Points

- The most appropriate answer to the given idiom 'Set the wheels in motion' is 'To initiate a chain of events'.
- **Set the wheels in motion:** to do something that will cause a series of actions to start. (कुछ ऐसा करना जिससे क्रियाओं की एक श्रृंखला शुरू हो जाए)
  - Example: With today's announcement, she has **set the wheels in motion** for a run for the presidency.

Correct Answer: To initiate a chain of events.

70. Answer: b

### Explanation:

The correct answer is 'in'.

#### ★ Key Points

- In the given underlined part 'in' should be used.
- 'In' is '(used to show place) inside or to a position inside a particular area or object'. [(पूर्वसर्ग) (स्थान का निर्देश) अंदर या किसी क्षेत्र या वस्तु के भीतर कोई स्थिति में, के अंदर]
  - Example: I was born and brought up **in** America.
- Let's look at the meaning of other words:
  - **Beneath** : in, at or to a lower position than somebody/something; under. (किसी अन्य के नीचे, तले, नीचे की ओर)
  - **By** : beside; very near. (बगल में; बहुत पास, समीप)
  - **Into** : moving to a position inside or in something. [(किसी के) अंदर की ओर या अंदर]

Correct Sentence: *I sighed this science project in London.*

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71. Answer: b

Explanation:

The correct answer is 'reported'.

★ Key Points

- The most appropriate title of the given passage is 'India is home to Asia's oldest bamboo'.
- The given cloze test is taken from an article in 'The Hindu'.
- In the first filler 'reported' should be used.
- It means 'to give people information about what you have seen, heard, done, etc.' (लोगों को देखे, सुने या किए आदि की जानकारी, रिपोर्ट या विवरण देना)
  - Example: Several people reported seeing/having seen the boy.
- Let's look at the meaning of other words:
  - **signed** : to write your name on a letter, document, etc. to show that you have written it or that you agree with what it says. [पत्र, दस्तावेज़ आदि पर हस्ताक्षर करना (यह बताने के लिए कि इसे आपने लिखा है और जो लिखा है उससे आप सहमत हैं)]
  - **assigned** : to give something to somebody for a particular purpose. (विशेष उद्देश्य से कुछ देना)
  - **deserved** : to earn something, either good or bad, because of something that you have done. (अच्छे या बुरे कर्म के अनुसार अच्छे या बुरे फल का पात्र होना)

Correct Passage: *With over 49,000 plant species reported as of 2018, India holds (2) \_\_\_\_\_ 11.5% of all the flora in the world. Now, a new fossil record has (3) \_\_\_\_\_ that India is the birthplace of Asian bamboo, and they (4) \_\_\_\_\_ formed about 25 million years ago in the north-eastern (5) \_\_\_\_\_ of the country.*

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72. Answer: d

Explanation:

The correct answer is ' **about** '.

★ Key Points

- The most appropriate title of the given passage is 'India is home to Asia's oldest bamboo'.
- In the second filler, the most appropriate preposition is ' **about** '.
- It means 'a little more or less than; approximately'. (लगभग)
  - *Example: It's **about** three kilometers from here to the city.*
- Let's look at the meaning of other options:
  - **on** : in a place or position. (किसी स्थान या स्थिति में, पर)
  - **off** : down or away from a place or a position on something. (किसी स्थान या वस्तु की स्थिति से नीचे, दूर या परे)
  - **upon** : more formal term for on, especially in abstract senses. (On के लिए अधिक औपचारिक शब्द, विशेष रूप से अमूर्त इंद्रियों में)

Correct Passage: *With over 49,000 plant species reported as of 2018, India holds **about** 11.5% of all the flora in the world. Now, a new fossil record has (3) \_\_\_\_\_ that India is the birthplace of Asian bamboo, and they (4) \_\_\_\_\_ formed about 25 million years ago in the north-eastern (5) \_\_\_\_\_ of the country.*

73. Answer: d

**Explanation:**

The correct answer is ' **shown** '.

★ Key Points

- The most appropriate title of the given passage is 'India is home to Asia's oldest bamboo'.
- In the **third** filler, the most appropriate preposition is ' shown '.
- It means 'to let somebody see somebody/something'. (किसी को कोई व्यक्ति या वस्तु देखने देना; दिखाना, प्रदर्शित करना)
  - *Example: Sometimes he has **shown** great timing.*
- Let's look at the meaning of other words:

- **limited** : small or controlled in number, amount, etc. (संख्या, मात्रा आदि की दृष्टि से कम या नियंत्रित, सीमित)
- **known** : to have knowledge or information in your mind. (किसी बात या व्यक्ति की जानकारी होना)
- **arranged** : to put something in order or in a particular pattern. (व्यवस्थित करना, क्रम विशेष से सजाना)

Correct Passage: *With over 49,000 plant species reported as of 2018, India holds about 11.5% of all the flora in the world. Now, a new fossil record has **shown** that India is the birthplace of Asian bamboo, and they (4) \_\_\_\_\_ formed about 25 million years ago in the north-eastern (5) \_\_\_\_\_ of the country.*

74. Answer: c

Explanation:

The correct answer is 'were'.

★ Key Points

- The most appropriate title of the given passage is 'India is home to Asia's oldest bamboo'.
- In the **fourth** filler, the most appropriate preposition is 'were'.
- The given passage is in the **past tense**.
- And 'they' is a **plural pronoun**. Hence, it should be followed by a plural **helping verb**.
- Thus, the correct answer is **Option 3**.

Correct Passage: *With over 49,000 plant species reported as of 2018, India holds about 11.5% of all the flora in the world. Now, a new fossil record has shown that India is the birthplace of Asian bamboo, and they **were** formed about 25 million years ago in the north-eastern (5) \_\_\_\_\_ of the country.*

75. Answer: b

## Explanation:

The correct answer is ' part '.

### ★ Key Points

- The most appropriate title of the given passage is 'India is home to Asia's oldest bamboo'.
- In the fifth filler, the most appropriate preposition is ' part '.
- It means 'one of the pieces, areas, periods, things, etc. that together with others forms the whole of something; some, but not all of something'. (अंश, भाग, खंड, हिस्सा)
  - *Example: Which **part** of Gujarat do you come from?*
- Let's look at the meaning of other words:
  - **beside** : at the side of, or next to somebody/something. (के बगल में, के पास)
  - **type** : a group of people or things that share certain qualities and that are part of a larger group; a kind or sort. [समान विशेषताओं वाले व्यक्तियों या वस्तुओं का समूह (जो अपने से बड़े समूह का भाग हों); प्रकार या किस्म]
  - **bit** : slightly, a little. (हलका-सा, थोड़ा)

Correct Passage: *With over 49,000 plant species reported as of 2018, India holds about 11.5% of all the flora in the world. Now, a new fossil record has shown that India is the birthplace of Asian bamboo, and they were formed about 25 million years ago in the north-eastern **part** of the country.*

## 76. Answer: a

## Explanation:

The correct answer is Nagaland.

### ★ Key Points

- **Sekrenyi** is a 10-day festival celebrated in the month of February as a part of mini Hornbill tribal festival in Nagaland. Hence option 1 is correct.

- It signifies the purification and is the **biggest festival in the Angami tribe that is located in the Kohima district** of Nagaland.
- This festival includes cultural performance by Naga tribes, handicrafts exhibition, indigenous games etc.

★ Additional Information

- Some of the festivals of other states are as follows:

State	Festivals
Rajasthan	Braj Holi, Gangaur Festival, Teej Festival, Kajli Teej Festival.
Tamil Nadu	Pongal, Thiruvaiyaru Festival, Karthigai Deepam.
Bihar	Chhath Puja, Makar Sankranti, Buddha Jayanti.
Maharashtra	Gudi Padwa, Ram Navami, Janmashtami.

77. Answer: b

**Explanation:**

The correct answer is Kabaddi.

★ Key Points

- Kabaddi is a team sport of seven players from each of the two teams.
- Players have to win the points after touching the opponents in their court and returning to their court without getting caught.
  - **The player who goes to the opponents is termed a 'raider'. Hence option 2 is correct.**
- The players have court by chanting "Kabaddi, Kabaddi" without taking a breath and return in 30 seconds.
- **If the raider touches the opponent and returns, then that opponent is considered out and can return after the opponent scored a point.**
  - In this case, the opponents are considered 'defenders'.



### ★ Additional Information

- Kho-Kho is a traditional sport with 12 players on each side (9 on the field and 3 extra).
  - The player of one team has to get the opposition team out by touching while running.
- Mallakhamb is a traditional sport that includes a gymnast performing aerial yoga postures hanging from a rope or a pole.
- Throwball is a ball sport played between two teams each comprised of 9 players.

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## 78. Answer: d

### Explanation:

The correct answer is RD Burman

### ★ Key Points

- **Rahul Dev Burman or RD Burman is an Indian music composer who started composing music in Hindi films in the 1960s and has the nickname Pamcham Da. Hence option 4 is correct.**
- He was considered the king of Bollywood music and with his wife, Asha Bhosle and his sister-in-law, Lata Mangeshkar, he composed over 300 songs.
- He composed music as an assistant in the films Kaagaz Ke Phool in 1959, Tere Ghar Ke Samne in 1963 and as a music director for the film Teesri Manzil in 1966.
- **He won the Filmfare award for Best music director thrice** in 1983 for Sanam Teri Kasam, in 1984 for Masoom and in 1995 for 1942: A Love Story.

### ★ Additional Information

- **Zakir Hussain is an Indian tabla player who was awarded the Padma Sri in 1998, Padma Bhushan in 2022 and Padma Vibhushan in 2023** by the government of India.



- He was the youngest musician to receive the Sangeet Natak Akademi Award from the President of India, in 1990.
- **Jagjit Singh** is an Indian film music composer and singer who is known for the revival of the popularity of Ghazal.
  - **The Rajasthan government was awarded the Rajasthan Ratna award posthumously in 2012.**
  - In 2003, the government of India awarded Padma Bhushan to him.
- **AR Rahman** is an Indian music composer who works in many languages like Tamil, Hindi, Telugu etc and also in Hollywood with 20th Century fox studios.
  - In 2009, he won two Oscars or the Academy Awards for the movie Slumdog Millionaire in the Best Original Score and Best Original Song categories.
  - He won the Golden Globe Award for Slumdog Millionaire and was nominated for the same for 127 Hours.

79. Answer: a

Explanation:

The correct answer is Option 1.

★ Key Points

- In West Bengal is the localised thunderstorms associated with violent gust and heavy rain known as 'Kaal Baisakhi'.
- Kaal Baisakhi
  - It is a local rainfall and thunderstorm occur in Assam and West Bengal and in India or Bangladesh.
    - It occurs in the summer season.
  - It harms life and money and generally occurs in the month of Baisakh (April-May), hence it is known as 'Kaal Baisakhi'.
  - It originated from Chota Nagpur Plateau.
  - Since It is caused by winds coming from the north-west direction, they are also called 'norwesters'.

★ Additional Information

- During the **summer season, strong humid winds** start blowing in many places in India, which are known by different names in different places of the country:
  - **Norwesters in East India**
  - **Cherry Blossoms/Coffee Showers**
    - It is the local humid wind of Karnataka that is helpful for the coffee plantation and flows in the hot weather season.
  - **Mango- shower**
    - It is pre-monsoon rainfall and occurs especially in parts of Kerala, Karnataka and Tamil Nadu.
    - It helps in the early ripening of mangoes and hence it is called 'Mango rain' or Mango-shower.

80. Answer: d

**Explanation:**

The correct answer is Option 4.

★ Key Points

- The **Vedas** are considered to be the **oldest literature** of the **Indian subcontinent**.
- There are **four Vedas**. Among these, **Rigveda** is the **oldest** and first to be composed.
- **Rigveda** consists of **ten mandalas or books** and **1028 hymns**.
- The **hymns** were sung in the praises of **Agni, Indra, Mitra, Varuna**, and other Gods.
- **Lord Indra** is the chief deity cited in the **Rig Veda**.
- The famous **Gayatri mantra (Savitri)** is in **Rig-Veda**.
- The **Varna System**, **Four-fold division of society**, '**Sudra**', and **Purusha Shukta Hymns** are also mentioned in **Rig Veda**.

★ Additional Information

Veda	Key Features
Rig Veda	It is the earliest form of Veda
Samaveda	The earliest reference for singing
Yajurveda	It is also called the book of prayers
Atharvaveda	The book of magic and charms

81. Answer: a

**Explanation:**

The correct answer is Vinay Mohan Kwatra.

★ Key Points

- On 1st May 2022, Vinay Mohan Kwatra took charge as India's new Foreign Secretary. Hence option 1 is correct.
- He is a 1988 batch Indian Foreign Services (IFS) Officer and is set to replace Harsh Vardhan Shringla.
- Kwatra was serving as an Indian envoy to Nepal 2020 and France from 2017 to 2020.
  - He is the 24th Ambassador to France and the 25th Ambassador to Nepal.
- He has a diploma in International Relations from the Graduate Institute of International and Development Studies.

★ Additional Information

- Harsh Vardhan Shringla is a 1984 batch IFS officer and served as Indian Ambassador to the United States from 2019 to 2020.
  - He also served as India's High Commissioner to Bangladesh from 2016 to 2019.
  - He is the chief coordinator for G20 Presidency in India, in 2023.
- Subrahmanyam Jaishankar is the Minister of External Affairs, appointed in 2019.

- He is a Member of Parliament, Rajya Sabha since 2019 representing Gujarat from the BJP.
- Sujata Mehta is an Indian actress from Gujarat who predominantly works in Hindi films.

**82. Answer: d**

**Explanation:**

The correct answer is Option 4.

★ Key Points

- According to the census 2011 state with the lowest literacy rate is Bihar.
- According to the census 2011, Uttar Pradesh is the most populous state.

★ Additional Information

- Census 2011 was the 15th Census of India.
- The slogan of Census 2011 was 'Our Census our Future'.
- Total population of census 2011 - 1,210,193,422.
- The largest census in human history ever conducted by any Government till now.
- The Census of 2011 covered -
  - 640 Districts
  - 5924 Sub-districts
  - 5767 Tehsils
  - 7742 Towns
  - 6,49,481 Villages
- According to the Census 2011
  - The UT (Union Territory) with the smallest area was Lakshadweep (30 km<sup>2</sup>)
  - The state with the largest area was Rajasthan (3,42,239 km<sup>2</sup>)
  - The state with the highest literacy rate was Kerala (94%)
- The first census of Independent India - 1951

83. Answer: b

**Explanation:**

The correct answer is Kerala.

★ Key Points

- **Mudiyettu is a ritual folk theatre dance from Kerala to appease the goddess Kali and it is also called Mudiyeduppu. Hence option 2 is correct.**
  - It refers to the mythological battle between the goddess Kali and the demon Darika.
- This is performed during November and December (also called Vrischikam) and only in Kali temples.
- **In 2010, Mudiyettu was inscribed in UNESCO's Representative List of the Intangible Cultural Heritage of Humanity.**
  - It is the second art form from Kerala to be listed after Kutiyattam.
- Some other cultures that are on UNESCO's list are Durga Puja from Kolkata, Kumbh Mela, Nawrouz, Traditional brass and copper craft from Punjab, Sankirtana from Manipur etc.

★ Additional Information

- The traditional folk dances of other states are tabled below:

State	Folk dances
Manipur	Raas, Nata Sankirtan, Dhola Cholam.
Jharkhand	Jhumair, Domkach, Lahasua, Jhumta.
Assam	Bihu, Satriya Nritya, Barpeta's Bhortal Nritya.
Andhra Pradesh	Andhra Natyam, Vilasini Natyam, Veera Natyam.
Maharashtra	Lavani, Koli Dance, Dhangari Gaja.

## 84. Answer: d

### Explanation:

The correct answer is Kathak.

#### ★ Key Points

- The Nrityabharati Kathak Dance Academy was founded by Kathak dancer Rohini Bhate in 1947.
- Rohini Bhate was a Bharatnatyam and Kathak dancer. She was born in Patna and went to school in Pune.
- She advised Khairagarh University and Lalit Kala Kendra, University of Pune, on the teaching of kathak and other dance forms.
- She received the Kalidas Samman and the Maharashtra Rajya Puraskar in 1977, the Sangeet Natak Akademi Award in 1979, and the Maharashtra Gaurav Puraskar in 1990.
- She became a Fellow of the Sangeet Natak Akademi in 2006 and received the Akademi Ratna Award in 2007.

#### ★ Additional Information

- The Sangeet Natak Akademi recognizes 8 classical dances in India.
- 8 Classical Dances of India and States:

Dance	State
Bharatanatyam	Tamil Nadu
Kathak	Uttar Pradesh
Kathakali	Kerala.
Kuchipudi	Andhra Pradesh.
Odissi	Odisha
Sattriya	Assam
Manipuri	Manipur
Mohiniyattam	Kerala

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# INDIAN CLASSICAL DANCE-I



**SATTRIYA**

Assam

**YAKSHAGANA**

Karnataka

**BHARATANATYAM**

Tamil Nadu

**KATHAKALI**

Kerala

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# INDIAN CLASSICAL DANCE-II



**MOHINIYATTAM**

Kerala

**KATHAK**

Northern &  
Western India

**ODISSI**

Odisha

**BHAGAVATA MELA**

Tamil Nadu

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# INDIAN CLASSICAL DANCE-III



**KUCHIPUDI**

Andhra Pradesh  
& Telangana

**CHHAU**

Jharkhand,  
West Bengal  
and Odisha

**MANIPURI**

Manipur

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85. Answer: d

**Explanation:**

The correct answer is 30%.

★ Key Points

- On 1st February 2022, Union Finance Minister Nirmala Sitharaman presented the union budget.
- **Virtual Digital Assets are the digital representations of assets or any information that can be digitally traded or transferred.**
  - It is also termed a code or number or token generated in digital form through cryptographic means.
  - Cryptocurrencies, non-fungible tokens (NFTs) etc are considered examples of Virtual Digital Assets.
- **According to the budget, any income from virtual digital assets will be taxed at 30%. Hence option 4 is correct.**

### ★ Additional Information

- NFTs are blockchain-based tokens that represent a unique identification code and metadata.
  - They can be traded for money or cryptocurrencies and depends on the market value.
- **Cryptocurrencies or NFTs are referred to as capital assets and in the transaction, any gain arising on the transfer of such assets shall be taxable as capital gains.**
- If the transactions in such assets are frequent, income from the sale of such assets should be taxable as business income.

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86. **Answer: a**

### Explanation:

The correct answer is Earth

### ★ Key Points

- **Earth is the only known planet that has stable water bodies on its surface and is called the "Blue Planet". Hence option 1 is correct.**
- Nearly 71% of the Earth is covered by water out of which 96.5% of Earth's water is in the oceans, 2.5% is freshwater, and about 1% is salty water in the ground.

- Though Earth is an abundant source of water, still there is a shortage of fresh water because **99.7% of the water on the Earth is in the oceans, soils, icecaps, and floating in the atmosphere and only 0.3% is available for necessities.**
- **Water can exist in the air as water vapour, in rivers, lakes and glaciers, and in the ground as soil moisture.**

### ★ Additional Information

- **Venus is the second planet from the Sun and is an inner planet and is sometimes referred to as Earth's twin planet** because of its similar size and density.
  - On Venus, the solar wind strikes the upper atmosphere and carries off particles into space and because of it, **Venus has lost the majority of its water over the four and a half thousand million years.**
- **Mars is the fourth planet from the Sun and is called a Red Planet because of its Iron minerals and rusty surface.**
  - Many years ago, Mars had rivers but by **today no water body exists on it.**
- **Saturn is the sixth and second largest planet in the solar system and the only planet to have rings.**
  - It is made up of Hydrogen and Helium.
  - **It has an atmosphere that has traces of water but it does not have stable water bodies.**

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87. Answer: d

### Explanation:

The correct answer is Endoplasmic Reticulum

### ★ Key Points

- **Endoplasmic Reticulum (ER) is a large structure that helps in protein synthesis, calcium storage and lipid metabolism in the cell.**
- **It is a complex network of enclosed tubules that extends from the nuclear membrane and is located in the cytoplasm of the Eukaryotic cell.**



- Endoplasmic Reticulum acts as a channel or a passage and lets proteins and lipids pass through it. Hence option 4 is correct.
- It is of two types: Smooth ER and Rough ER.
- The Rough ER is covered by ribosomes and functions in protein processing.
- The smooth ER is involved in lipids, instead of protein and metabolism.

★ Additional Information

- The Golgi Apparatus is a cell organelle that processes the proteins and lipid molecules and proteins that are destined to be exported from the cell.
  - It is a part of the cell that is made up of membranes and some of them are tubules and nuclei.
- Lysosomes are membrane surrounded by cell organelle that contains digestive enzymes and helps break down excess or cell parts.
  - Apoptosis is the process in which if the cell is destroyed beyond repair, then the lysosomes help it to self-destruct.
- Mitochondria or called the powerhouse of the cell is a membrane-bound cell organelle which generates most of the chemical energy required for the cell.

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88. Answer: d

**Explanation:**

The correct answer is Kailasa temple at Ellora

★ Key Points

- The architectural styles of temples are of three types: **Nagara style**, **Dravida style** and **Vesara style**.
- The Dravidian style of architecture consists of a compound wall and a front wall at the entrance called **Gopuram**.
- It has a vimana which is the main temple tower that is in a stepped pyramid shape and a Shikara (stupa or octagonal shape) located at the top of the temple.
- Examples of Dravidian-style of temples are the **Brihadishwara temple** in Tanjore, **Kailasa temple at Ellora**, **Chennakesava Temple** in Belur etc. Hence

option 4 is correct.

★ Additional Information

- **Nagara style** of architecture is one of the most common styles which consists of a stone platform on the front.
- It consists of the **garbhagriha** that is always located directly under the tall tower.
- Examples of Nagara style include the **Sun temple in Konark, the Kamakhya temple at Guwahati and the Kandariya Mahadeo temple at Khajuraho, Madhya Pradesh.**
- The **Vesara style** of the temple includes **vimana, Mandapa, open passageway, pillars and ceilings decorated with carvings.**
- Examples of Vesara type architecture are the **Kailashanath temple in Ellora, Chennakeshava temple, Virupaksha temple in Karnataka etc.**

89. Answer: d

**Explanation:**

The correct answer is Dayanand Saraswati

★ Key Points

- The Suddhi movement was one of the major religious movements in India in the 20th century.
- It aimed to bring back the Hindus who had accepted Islam or Christianity back to their original faith.
- It was started by Swamy Dayanand Saraswati. Hence option 4 is correct.
- The religious conversions and the expansion of Christianity were seen as a threat to Hinduism.
- Swamy Dayanand Saraswati was a religious leader who founded Arya Samaj which changed the religious perceptions among Indians.
- Arya Samaj is a religious or social organization established in Bombay in 1875.

★ Additional Information

- Ramakrishna Paramahansa was a spiritual leader who followed Hindu traditions and followed Advaita Siddhantha.
- Advaita Siddhantha refers to monism i.e., the God and the soul are one or the world is an illusion.
- Keshab Chandra Sen is a Bengali social reformer and a Hindu philosopher who attempted to incorporate Christian theology within the framework of Hindu thought.
  - He joined Brahmo Samaj (established by Raja Ram Mohan Roy) in 1857 and later in 1866, he established Bharatvarshiya Brahmo Samaj.
- Swamy Vivekananda (original name Narendra Nath Dutta) was a Hindu monk and philosopher who founded Ramakrishna Mission in 1897.
- He became a global figure after his Chicago speech in 1893 at the Parliament of Religions in Chicago.

90. Answer: c

Explanation:

The correct answer is Aristocracy.

★ Key Points

- It specifies Justice, Liberty, Equality and Fraternity as the objectives. While the Aristocracy is not part of the Preamble of India.
- The Preamble of Indian Constitution based on Objectives Resolution.
- It adopted by Constituent Assembly on 26 November 1949 but came into action on 26 January 1950 (Republic Day of India).
- The preamble has been amended only once so far.
- On 18 December 1976, during the Emergency in India, the Indira Gandhi government pushed through several changes in the 42nd Amendment of the constitution.
- In this amendment, the words "socialist" and "secular" were added between the words "Sovereign" and "democratic" and the words "unity of the Nation" were changed to "unity and integrity of the Nation".

- It is a brief introductory statement setting out guidelines that guide the people of the nation and the principles of the Constitution, indicating the source and meaning of the document.
- In the Berubari case presidential reference, the Supreme Court of India originally stated that the preamble is not an integral part of the Indian constitution.

91. Answer: a

**Explanation:**

The correct answer is Razia Sultana.

Razia Sultana (Reign: 1236 – 1240):

★ Key Points

- Born in 1205 as Iltutmish's daughter.
- She was the first and last Muslim woman to rule over Delhi.
- Also known as Razia al-Din.
- Before ascending to the throne of Delhi after her father's death, the reign was briefly handed over to her half-brother Rukn ud-din Firuz. But after Firuz's assassination within 6 months of his ascendancy, the nobles agreed to place Razia on the throne.
- She was known as an efficient and just ruler.
- She was married to Malik Ikhtiar-ud-din Altunia, the governor of Bathinda.
- She was reportedly killed by her brother's forces.
- Her brother Muizuddin Bahram Shah succeeded her.

★ Additional Information

Chand Bibi: The Warrior Queen Of The Deccan:

- Chand Bibi was born in 1550 to Sultan Hussain Nizam Shah and Sultana Khanzada Humayun of Ahmadnagar in present-day Maharashtra.



- In her early teens, she was married to Sultan Ali Adil Shah of Bijapur as a military alliance between the two states against the kingdom of Vijaynagar.
- Around 1580, when Sultan Adil Shah died in battle leaving his 9-year-old nephew king, Chand Bibi ruled as regent.
- She would go on to electrify not only the Deccan but also the Mughals in faraway Agra.

92. Answer: b

**Explanation:**

The correct answer is

England.



Key Points

- **New Zealand defeated India** in the finals of the inaugural World Test Championship in June 2021.
- **England** hosted this match.
- The first test championship began in **2019 with the finals being played in 2021.**
- The top three teams, as a result, are:
  - **First: New Zealand;**
  - **Second- India;**
  - **Third- Australia.**

★ Additional Information

- **New Zealand** defeated India to win the **first ICC World Test Championship.**
- On June 23, 2021, the last day of the match was played.
- **Kyle Jamieson (NZ)** is the **“Player of the match”.**
- **Kane Williamson (NZ)** is the **“Player of the series”.**

93. Answer: b

Explanation:

The correct answer is Taj Expressway.

★ Key Points

- **Taj Expressway** was the former name of the Yamuna Expressway Project constructed in Uttar Pradesh, India.
- **Yamuna Expressway** connects Greater Noida- Agra.
- Yamuna Expressway or Taj Expressway is a 6-lane (extendable to 8 lanes), 165 km long, access controlled expressway, connecting Greater Noida with Agra in the Indian state of Uttar Pradesh.
- It is one of **India's longest six-lane controlled-access expressway stretches**.
- The project was started to decongest the older Delhi-Agra national highway (NH-2) or Mathura Road which is already over-congested.
- The expressway project was inaugurated on **9 August 2012 by the then Chief Minister of UP Akhilesh Yadav**.
- The Yamuna Expressway starts from **Pari Chowk in Greater Noida and ends at Kuberpur, Agra on NH-2 towards Kanpur**.

★ Additional Information

- **Purvanchal Expressway** is a 340.8 km long, 6-lane wide access-controlled expressway in the state of Uttar Pradesh
- **The John F. Kennedy Expressway** is a nearly 18-mile-long freeway in Chicago, Illinois, United States.

94. Answer: c

Explanation:

The correct answer is Kapil Dev.

★ Key Points

- Kapil Dev is a former Indian cricketer.
- Nickname: The Haryana Hurricane.
- One of the greatest all-rounders in Indian cricket.
- He led the Indian cricket team that won the 1983 Cricket World Cup.
- The first player to take 200 One Day International wickets.
- He joined the Indian Territorial Army as a Lieutenant Colonel in 2008.
- Kapil Dev has so far written 4 books:
  - By God's Decree (1985; Autobiography)
  - Cricket My Style (1987; Autobiography)
  - Straight from the Heart (2004; Autobiography)
  - We, The Sikhs (2019)

★ Additional Information

- Sachin Tendulkar:
  - "Playing It My Way" is the autobiography of former Indian cricketer Sachin Tendulkar.
    - It was launched in Mumbai on 5 November 2014.
    - The book was authored by Boria Majumdar and Sachin Tendulkar.
- **Sunil Gavaskar's autobiography:** Sunny Days: An Autobiography, 1976.
- Rahul Dravid:
  - "The Nice Guy Who Finished First" is a biography of Rahul Dravid.
  - The book was authored by Devendra Prabhudesai.

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95. **Answer: a**

**Explanation:**

The correct answer is NaAlO<sub>2</sub>.

★ Key Points

- Sodium aluminate is an important marketable inorganic chemical.

- It works as an effective source of aluminium hydroxide for numerous artificial and specialized operations.
- Pure sodium aluminate( anhydrous) is a white crystalline solid having a formula similarly given as  $\text{NaAlO}_2$ ,  $\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3$ , or  $\text{Na}_2\text{Al}_2\text{O}_4$ .

★ Important Points

- Some common chemical compounds with their common names are:

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Chemical Compounds	Common Names	Chemical Formulas
Sodium Bicarbonate	Baking Soda	$\text{NaHCO}_3$
Calcium ChlorohypoChlorite	Bleaching Powder	$\text{Ca}(\text{ClO})_2$
Sodium Hydroxide	Caustic Soda	$\text{NaOH}$
Sodium Carbonate	Washing Soda	$\text{Na}_2\text{CO}_3 \cdot 10 \text{H}_2\text{O}$
Carbon Dioxide	Dry Ice	$\text{CO}_2$
Copper Sulphate	Blue Vitriol	$\text{CuSO}_4$
Ferrous Sulphate	Green Vitriol	$\text{FeSO}_4$
Sulphuric Acid	Oil of vitriol	$\text{H}_2\text{SO}_4$
Calcium Sulphate Hemihydrate	Plaster of Paris	$(\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O})$
Calcium Sulphate Dihydrate	Gypsum	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
Calcium Hydroxide	Slaked Lime	$\text{Ca}(\text{OH})_2$

Sodium nitrate	Chile Saltpeter	NaNO <sub>3</sub>
Potassium nitrate	Saltpetre	KNO <sub>3</sub>
Hydrochloric acid	Muriatic acid	HCl

96. Answer: b

**Explanation:**

The correct answer is Three.

★ Key Points

- On **November 29, 2021**, Mr. **Narendra Singh Tomar**, the **Minister of Agriculture and Farmers' Welfare**, introduced the **Agricultural Laws Repeal Bill, 2021** in the Lok Sabha.
- **Three farm laws** passed by Parliament in **September 2020** are repealed by the Bill.
- These include
  - the Farmers (Empowerment and Protection) Agreement on Price Assurance and Agricultural Services Act,
  - the Farmers' Produce Trade and Commerce (Promotion and Facilitation) Act, and
  - the Essential Commodities (Amendment) Act, all of which are slated to take effect in 2020.

★ Additional Information

- These **laws were** passed in order to:
  - provide a framework for **contract farming**;
  - make it easier for farmers to **sell their produce outside of markets** that have been notified under the various state **Agricultural Produce Marketing Committee (APMC) laws**; and

- limit the availability of **some foods (like cereals, pulses, and onions)** to times of extreme need, such as war, famine, or an **unusual price increase**.

97. Answer: b

### Explanation:

The correct answer is migration.

#### ★ Key Points

- People migrate when they **relocate from one place to another** with the aim of staying there **either permanently or temporarily**.
- Migration can occur in **small groups, extended families, or single individuals**.
- **Invasion, conquest, colonization, and emigration/immigration** are the four main types of migration.
- **Immigration** simply refers to traveling to **your home country**.
- The act of **leaving your own nation** is referred to as **emigration**.

#### ★ Additional Information

- **Depopulation:**
  - Depopulation is the process of **reducing the population of a region or a nation**.
- **Mortality:**
  - **Death** is sometimes referred to as mortality.
  - **A disease's mortality rate** is calculated by **dividing the total number of fatalities by the population**.
- **Demographic transition:**
  - A population's age distribution can significantly change as a **result of a long-term pattern of lowering birth and death rates**, known as a demographic transition.

98. Answer: d

## Explanation:

The correct answer is **Both I and II.**

### ★ Key Points

- **Robert Clive:**
  - At the age of **18**, **Lord Robert Clive** traveled from **England to Madras in 1743.**
  - Having triumphed at the **Battle of Plassey in 1757**, he established **Company rule in Bengal.**
  - **In 1764**, he was chosen to serve as **Bengal's governor.**
  - The **"Governor-General of Bengal"** was the title given to the governor of **Bengal by the Regulating Act of 1773.**
  - It is commonly acknowledged that Robert Clive was instrumental in establishing **Bengali British East India Company authority.**
- In Indian states, the Company **installed Residents** following the **Battle of Buxar (1764).**
- They were hired as **political or business agents** to represent and advance the **Company's interests.**
- The Corporation authorities started meddling in the **internal affairs of Indian states** through the Residents.

### ★ Additional Information

- **Battle of Buxar:**
  - The Battle of Buxar took place on **October 22 and 23, 1764.**
  - It was fought between the forces under the command of the **British East India Company, led by Hector Munro**, and the combined armies of **Mir Qasim, Nawab of Bengal till 1764; the Nawab of Awadh, Shuja-ud-Daula; and the Mughal Emperor, Shah Alam II.**
  - The conflict took place in **Buxar, a "strong fortified town"** in the Bihar region that is situated along the **Gangas river.**
  - For the **British East India Company**, it was a **difficult win.**
  - The **Treaty of Allahabad**, which was signed in **1765**, put an end to the conflict.



99. Answer: a

**Explanation:**

The correct answer is **Both I and II.**

★ **Key Points**

- Arthropoda:
  - Arthropods have hard, **external shells called “exoskeletons,” segmented bodies, and jointed legs.**
  - Some familiar examples are prawns, butterflies, houseflies, spiders, scorpions, and crabs.
  - They exhibit an organ–system level of organization.
  - They are **bilaterally symmetrical**, triploblastic, segmented and coelomate.
  - The coelomic cavity is blood-filled.
  - The body of arthropods is covered by chitinous.
  - The body consists of a **head, thorax, and abdomen.**
  - There is an open circulatory system, so the blood does not flow in well-defined blood vessels.
  - Respiratory organs are the gills, book gills, book lungs, or tracheal system.
  - Sensory organs like antennae, eyes (compound and simple), statocysts, or balance organs are present.
  - Excretion takes place through malpighian tubules.
  - Examples of Phylum Arthropoda are:
    - Cockroach
    - Prawn
    - Crab
    - Scorpion
    - Centipede
    - Housefly
    - Ticks
    - Mites

100. Answer: c

### Explanation:

The correct answer is Finance commission.

#### ★ Key Points

- Finance Commission:
  - Finance Commission is a constitutional body.
  - Finance Commission was constituted to recommend the distribution of the net proceeds of taxes between the Centre and states, and among the states.
  - It was established under Article 280 of the Indian Constitution.
  - The Commission was constituted every five years by the President.
  - The Commission consists of five members including the chairperson.
  - As of March 2023, Nand Kishore Singh was the current chairperson of the 15th Finance Commission.

#### ★ Additional Information

- Attorney General of India:
  - Venkatramani is the current attorney general of India.
  - He is the first law officer of the government of India.
  - He is appointed by the President under Article 76 of the Constitution.
  - He has the right to speak and take part in all the proceedings of both houses of parliament including joint sittings.
  - He has no right to vote.
- The Election Commission of India is an autonomous constitutional authority.
  - It is responsible for administering election processes in India at the national, state and district levels.
  - Article 324 of the Constitution of India deals with the composition of the Election Commission.
  - It provides that the Election Commission shall consist of the Chief Election Commissioner and a number of other Election Commissioners.
- GST Council is the governing body of GST with 33 members.

- The goods and Service Tax Council (GST) of India is headed by the union finance minister.
- The GST Council's first chairman was Arun Jaitley.
- The GST council is currently chaired by Union Finance Minister Nirmala Sitharaman.
- The GST council is established under Article 279 A of the Indian constitution.

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