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## **Your Personal Exams Guide**







# SSC MTS Previous Year Paper (Held on: 11 Oct 2021 Shift 1)

Total Time: 1 Hour : 30 Minute

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Total Marks: 100

## Instructions

| SI<br>No. | Section Name                        | No. of<br>Question | Maximum<br>Marks | Negative<br>Marks | Positive<br>Marks |
|-----------|-------------------------------------|--------------------|------------------|-------------------|-------------------|
| 1         | General English                     | 25                 | 25               | 0.25              | 1                 |
| 2         | General Intelligence &<br>Reasoning | 25                 | 25               | 0.25              | 1                 |
| 3         | Numerical Aptitude                  | 25                 | 25               | 0.25              | 1                 |
| 4         | General Awareness                   | 25                 | 25               | 0.25              | 1                 |

1.) A total of 90 minutes is allotted for the examination.

2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.

3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.



## **General English**

1. Select the most appropriate option to substitute the underlined segment. If (+1, -0.25) no substitution is required, select 'No substitution required'.

You will never become a good reader <u>until reading are</u> done with a purpose.

- a. No substitution required
- b. unless reading is
- c. When reading has
- d. until reading will be

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

   Fly the nest
   (+1, -0.25)
  - a. To run at a very fast pace to reach home
  - b. To lose direction and not reach one's destination
  - c. Children returning home after studying abroad
  - d. Children leaving their parents' home to live on their own
- Select the most appropriate option to substitute the underlined segment (+1, -0.25) in the given sentence. If there is no need to substitute it, select 'No substitution required.'

Many industrialists are coming <u>onward</u> to help migrant workers find employment in their villages and cities.





- **a.** towards
- **b.** forward
- c. No substitution required
- d. backward
- 4. Select the most appropriate one word substitution for the given group of (+1, -0.25) words.

A gentle song sung to put a child to sleep

- a. Prayer
- b. Chorus
- **c.** Hymn
- d. Lullaby
- 5. Select the most appropriate option to substitute the underlined segment (+1, -0.25) in the given sentence.

When have you been waiting for me here?

- **a.** How long
- **b.** How far
- c. What time
- d. How late

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| 6. | 5. Select the most appropriate ANTONYM of the given word.   |             |  |  |  |  |
|----|---|-------------|--|--|--|--|
|    | SUBTLE  |             |  |  |  |  |
|    | a. crafty   |             |  |  |  |  |
|    | <b>b.</b> harsh   |             |  |  |  |  |
|    | <b>c.</b> faint   |             |  |  |  |  |
|    | d. slight   |             |  |  |  |  |
| 7. | <ul> <li>Fill in the blank with the most appropriate word.</li> <li>These discount coupons are for only six months from the date of issue.</li> <li>a. attested</li> <li>b. tested</li> <li>c. valid</li> <li>d. solid</li> </ul> | (+1, -0.25) |  |  |  |  |
| 8. | Select the INCORRECTLY spelt word.  | (+1, -0.25) |  |  |  |  |

- **a.** Manual
- **b.** Grajual
- **c.** Mutual
- **d.** Usual

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

STERN

- **a.** strict
- **b.** mild
- c. lenient
- d. gentle

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

Why did you spent so much money on old and useless furniture?

- **a.** on old
- b. and useless furniture
- c. so much money
- d. Why did you spent ersonal Exams Guide
- 11. Select the most appropriate synonym of the given word. (+1, -0.25)

PROVOKE

- **a.** gratify
- b. enrage
- c. hinder
- d. placate

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

They went on talking while the teacher were teaching an important lesson.

- a. an important lesson
- b. They went on talking
- c. while the
- d. teacher were teaching
- 13. Select the most appropriate one word substitution for the given group of (+1, -0.25) words.

Undue favour shown to one's relatives

- a. Nepotism
- **b.** Nationalism
- c. Despotism UP Personal Exams Guide
- d. Narcissism

## 14. Fill in the blank with the most appropriate word.

(+1, -0.25)

My employers \_\_\_\_\_ my salary last year.

a. rise

- b. rose
- **c.** raise







## d. raised

| 15. | 15. Fill in the blank with the most appropriate word.  |             |  |  |  |  |  |  |  |
|-----|--|-------------|--|--|--|--|--|--|--|
|     | I am tired reminding you to clean your room.           |             |  |  |  |  |  |  |  |
|     | <b>a.</b> at   |             |  |  |  |  |  |  |  |
|     | <b>b.</b> by   |             |  |  |  |  |  |  |  |
|     | c. of  |             |  |  |  |  |  |  |  |
|     | <b>d.</b> to   |             |  |  |  |  |  |  |  |
| 16. | Fill in the blank with the most appropriate word.      | (+1, -0.25) |  |  |  |  |  |  |  |
|     | Swami Dayanand the Arya Samaj.                         |             |  |  |  |  |  |  |  |
|     | a. invented  |             |  |  |  |  |  |  |  |
|     | b. developed   |             |  |  |  |  |  |  |  |
|     | c. founded OUT PETSONGLEXCIMS GUIDE                    |             |  |  |  |  |  |  |  |
|     | d. discovered  |             |  |  |  |  |  |  |  |
| 17. | Select the most appropriate ANTONYM of the given word. | (+1, -0.25) |  |  |  |  |  |  |  |
|     | CEASE  |             |  |  |  |  |  |  |  |
|     | <b>a.</b> halt   |             |  |  |  |  |  |  |  |
|     | b. start   |             |  |  |  |  |  |  |  |
|     | c. stop  |             |  |  |  |  |  |  |  |

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### d. catch

## 18. Identify the segment in the sentence which contains a grammatical error. (+1, -0.25) The elegance furnished drawing room indicated that the owner had good taste. a. drawing room indicated **b**. that the owner c. had good taste d. The elegance furnished 19. Select the INCORRECTLY spelt word. (+1, -0.25) a. Mediocre b. Legible c. Opaque d. Sugestion (+1, -0.25) 20. Select the most appropriate meaning of the given idiom.

Your guess is as good as mine

- a. To have a better idea than others
- b. To have no idea of the answer
- c. To play a guessing game

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- d. To have the same idea as another
- Comprehension: In the following passage, some words have been (+1, -0.25) deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Albert soon got to learn the language of (1) \_\_\_\_\_ native people. Now, he could talk to (2) \_\_\_\_\_ about their problems. They too began to (3) \_\_\_\_\_ him for advice. Some people, (4) \_\_\_\_\_, were too shy to share their concerns. Albert eventually (5) \_\_\_\_\_ them that he was there to assist them in all matters.

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

| a. | an  |  |  |
|----|-----|--|--|
| b. | one |  |  |
| C. | a   |  |  |
| d. | the |  |  |

22. Comprehension: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

(+1, -0.25)

Albert soon got to learn the language of (1) \_\_\_\_\_ native people. Now, he could talk to (2) \_\_\_\_\_ about their problems. They too began to (3) \_\_\_\_\_ him for advice. Some people, (4) \_\_\_\_\_, were too shy to share their concerns. Albert eventually (5) \_\_\_\_\_ them that he was there to assist them in all matters.

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

a. himself

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- b. them
- **c.** you
- **d.** us

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

Albert soon got to learn the language of (1) \_\_\_\_\_ native people. Now, he could talk to (2) \_\_\_\_\_ about their problems. They too began to (3)\_\_\_\_\_ him for advice. Some people, (4) \_\_\_\_\_, were too shy to share their concerns. Albert eventually (5) \_\_\_\_\_ them that he was there to assist them in all matters.

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

- a. appear
- b. advance
- **c.** approach
- d. arrange

# 24. Comprehension: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

(+1, -0.25) t the

Albert soon got to learn the language of (1) \_\_\_\_\_ native people. Now, he could talk to (2) \_\_\_\_\_ about their problems. They too began to (3) \_\_\_\_\_ him for advice. Some people, (4) \_\_\_\_\_, were too shy to share their concerns. Albert eventually (5) \_\_\_\_\_ them that he was there to assist them in all matters.





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

- a. furthermore
- b. however
- c. therefore
- d. moreover
- 25. Comprehension: In the following passage, some words have been (+1, -0.25) deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Albert soon got to learn the language of (1) \_\_\_\_\_ native people. Now, he could talk to (2) \_\_\_\_\_ about their problems. They too began to (3) \_\_\_\_\_ him for advice. Some people, (4) \_\_\_\_\_, were too shy to share their concerns. Albert eventually (5) \_\_\_\_\_ them that he was there to assist them in all matters.

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

a. confirmed r Personal Exams Guide

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- b. decided
- c. settled
- d. assured

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## General Intelligence & Reasoning

26. Among six objects F, G, H, J, K and L :

i. H is twice heavy as K, and J is one and half times as heavy as F.

ii. G is half as heavy as J.

iii. F and J together are less heavy than H.

iv. J and L together are twice as heavy as F.

If the objects are arranged in descending order of their weight, which object will be second from the bottom?

| <b>a.</b> K |  |  |  |
|-------------|--|--|--|
| <b>b.</b> L |  |  |  |
| <b>c.</b> F |  |  |  |
| <b>d.</b> G |  |  |  |

- 27. Select the option that is related to the third number in the same way as (+1, -0.25) the second number is related to the first number.
  - 7:294:9:?
  - **a.** 648
  - **b.** 576
  - **c.** 881
  - **d**. 452

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(+1, -0.25)

**28.** Which option figure would come next in the following figure series? (+1, -0.25)



- 29. Choose the set of numbers that is similar to the following set. (+1, -0.25)
  - {21, 29, 20}
  - **a.** {8, 17, 15}
  - **b.** {19, 28, 17}
  - **c.** {33, 35, 12}
  - **d.** {7, 26, 24}

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- **30.** If WIDOWER is coded as VKAOXCU, then how would FORTIFY be coded? (+1, -0.25)
  - **a.** EQOTJDB
  - **b.** GMUSHDV
  - c. EOQSJCD
  - d. EPPTHDC
- **31.** Select the option in which the given figure is embedded (rotation is NOT (+1, -0.25) allowed).





- **32.** If POUNDAGE is coded as NOPUEGAD, then how would STAMPING be (+1, -0.25) coded?
  - a. AMSTGNIP
  - **b.** TSMGNPIA
  - c. TAMSGINP
  - d. AMTSGNIP
- **33.** Select the mirror image of the figure marked 'X', when the mirror is placed (+1, -0.25) on the right side of the figure.











- **34.** If 'FESTIVE' is coded as '16113215011' and 'HUNGER' is coded as '1427815114', (+1, -0.25) then how will 'GRUDGE' be coded?
  - **a.** 15427181511
  - **b.** 12457111851
  - **c.** 15241718511
  - **d**. 14527811151
- 35. Two statements are followed by two conclusions numbered I and II. (+1, -0.25)
   Assuming the statements to be true even if they do not conform to real world knowledge, decide which of the conclusions logically follows/ follow from the statements.

## Statements: Ur Personal Exams Guide

1. Some streams are rivers.

2. No river is a lake.

#### Conclusions :

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I. No stream is a lake.

- II. Some rivers are streams.
- a. Only conclusion I follows
- b. Only conclusion II follows



- c. Neither conclusion I nor conclusion II follow
- d. Both conclusion I and II follow
- **36.** Six boys A, B, C, D, E and F are standing in a queue.
  - i. There are two boys between B and D, and D is just in front of E.
  - ii. A and C are adjacent to B.
  - iii. A is just behind E, and C is just in front of F.

Which two boys are exactly in the middle positions?

| <b>a.</b> B and C |  |  |
|-------------------|--|--|
| <b>b.</b> C and D |  |  |
| <b>c.</b> A and E |  |  |
| <b>d.</b> A and B |  |  |

(+1, -0.25)

- **37.** If the signs + and × are interchanged, then which of the following (+1, -0.25) equations would be correct?
  - **a.** 9 × 3 7 + 9 = 19
  - **b.**  $10 \times 5 \div 10 + 10 = 10$
  - **c.**  $4 \div 8 + 6 \times 3 = 8$
  - **d.** 18 × 3 ÷ 12 + 8 = 20
- 38. Select the option that is related to the third letter cluster in the same (+1, -0.25) way as the second letter cluster is related to the first letter cluster.





LOTTERY : WQMTBTF :: SECULAR : ?

- a. BDRTQZK
- **b.** GTFUCUM
- **c.** FGTUUCM
- **d.** DFTUSBM

**39.** Eight friends P, Q, R, S, T, U, V and W are sitting in a row facing North. (+1, -0.25)

i. Q sits to the immediate right of P, who is at one of the extreme ends of the line.

ii. Q sits third to the left of T.

iii. There are two persons between W and T.

iii. U is not an immediate neighbor of S and sits to the immediate left of V.

iv. There are three persons between V and R.

Who are sitting between Q and T?

- **a.** R and S
- **b.** U and V
- **c.** R and U
- **d.** V and S
- **40.** 'Literature' is related to 'Poetry' in the same way as ' Painting' is related to (+1, -0.25)
  - **a.** Expression







- b. Colour
- **c.** Frame
- **d.** Portrait
- **41.** Which two signs should be interchanged to make the given equation (+1, -0.25) correct?
  - $10 \div 5 4 \times 3 + 6 = 13$
  - **a.** + and ÷
  - **b.** and ×
  - **c.** ÷ and ×
  - **d.** + and -
- 42. Select the option figure, which when placed in the blank space of the (+1, -0.25) figure marked 'X' would complete the pattern.





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**43.** If CROWN is coded as 68 and DEPEND is coded as 42, then how would(+1, -0.25)IMAGERY be coded?

| <b>a.</b> 68 |  |
|--------------|--|
| <b>b.</b> 67 |  |
| <b>c.</b> 71 |  |
| <b>d.</b> 73 |  |

**44.** Which number will replace the question mark (?) in the following number (+1, −0.25) series?

7, 9, 13, 16, 25, 29, ?, 50

- **a.** 47
- **b.** 38
- **c.** 41
- **d.** 45





- **45.** 'Play' is related to 'Actor' in the same way as 'Concert' is related to (+1, -0.25)
  - **a.** Symphony
  - **b.** Piano
  - **c.** Musician
  - d. Director
- **46.** Select the Venn diagram that best illustrates the relationship among the (+1, -0.25) following classes.







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

#### Statements :

- 1. All towns are cities.
- 2. No city is a village.
- 3. Some cities are corporations.

#### Conclusions :

- I. Some corporations are villages.
- II. Some towns are corporations.
- III. No corporation is a village.
- a. Only conclusion I follows
- **b.** Only conclusions I and II follow
- c. Either conclusion I or conclusion III follows
- d. Only conclusion II follows

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









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

PMOR, RNNP, TOMN, VPLL, ? SONG EXCINS GUICE

- **a.** XRJK
- **b.** XQKJ
- **c.** VQJJ
- **d.** YQKJ
- **50.** Which number will replace the question mark (?) in the following number (+1, −0.25) series?







91, 100, 94, 97, 101, 90, 112, ?

- **a.** 83
- **b.** 123
- **c.** 87
- **d.** 79

# Your Personal Exams Guide







## **Numerical Aptitude**

51. What will be the compound interest on a sum of ₹ 22,500 at the rate of (+1, -0.25)
16% per annum for 1 year, when interest is compounded half yearly?

**a.** ₹3, 600

**b.** ₹ 3,700

**c.** ₹ 3,744

**d.** ₹ 36,244

52. 12 men can complete a painting work in 8 days. However, 16 women can (+1, -0.25) complete the same painting work in 12 days. 8 men started painting the house. After 6 days of painting, 2 men were replaced by 4 women. Now how many days will they take to complete the remaining painting?
7. 4

| <b>u.</b> 4 |  |
|-------------|--|
| <b>b.</b> 6 |  |
| <b>c.</b> 8 |  |
| <b>d.</b> 5 |  |

- 53. An almirah was sold at a profit of 15%. If its cost had been 5% less and it (+1, -0.25) had been sold for ₹ 1,470 less, then the profit would have been 10%. What is the cost price of the almirah?
  - **a.** ₹14,000
  - **b.** ₹ 29,400







**c.** ₹ 16,100

**d.** ₹ 2,94,000

**54.** The year – wise student enrollment of two schools over a period of 5 (+1, -0.25) years has been presented in the following bar graph.



In which year is the difference of enrollment in the two schools, the least?

- **a.** 2015
- **b.** 2016
- **c.** 2018
- **d.** 2017

**55.** The simplified value of 
$$\frac{119 - \left[ 48 \div 6 - 7 \left\{ 5 \times 12 \div 3 - \left(15 - \overline{3-8}\right) \right\} \right]}{24 \div 3 - 9 \text{ of } 3 + \left(52 - \overline{8-4}\right) \div 6}$$
 is: (+1, -0.25)

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**a.**  $-\frac{111}{11}$ 

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- **b.**  $-\frac{127}{27}$
- **C.**  $\frac{127}{43}$
- **d.**  $\frac{111}{11}$
- **56.** A wire is in the form of a square of side 33 cm. If the wire is molded to (+1, -0.25) form a circle, then what is the radius of the circle?
  - $(Use\pi = \frac{22}{7})$ a. 21 cm b. 33 cm c. 16.5 cm d. 42 cm
- **57.** From a wooden cubical block of side 10 cm, a sphere of radius 4.2 cm is carved out. How much wood is wasted in the process? (Use  $\pi = \frac{22}{7}$ )
  - **b.** 689.536 cm<sup>3</sup>

**a.** 476.3 cm<sup>3</sup>

- **c.** 310.464 cm<sup>3</sup>
- **d.** 523.8 cm<sup>3</sup>
- 58. The product of two positive numbers is 1344 and their ratio is 7 : 12. The (+1, −0.25) smaller of these number is:
  - **a.** 16



| b. | 28 |
|----|----|
|    |    |

**c.** 112

- **d.** 48
- 59. Two dealers offer an item at the same marked price ₹ 3,000. The first (+1, -0.25) dealer allows successive discounts of 10% and 15%. The other dealer allows successive discounts of 20% and 5%. Find the difference in the selling price of the item under the two offers.

| <b>a.</b> ₹15  |  |
|----------------|--|
| <b>b.</b> ₹ 20 |  |
| <b>c.</b> ₹10  |  |
| <b>d.</b> ₹ 25 |  |
|                |  |

- 60. A bus moves from station A towards station B, which is at a distance of (+1, -0.25) 189 km. An hour later, a car, the ratio of whose speed with the bus is 3 : 2, starts from station A and moves towards station B. Find the speed of the bus (in km/h), if the car arrives at station B in half an hour earlier than the bus.
  - **a.** 41
  - **b.** 37.8
  - **c.** 42
  - **d.** 63

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61. Kavita purchased fabric worth ₹ 800 for a dress, and spent ₹ 350 on (+1, -0.25) embroidery and stitching. If she sold a dress at a profit of 20%, then the selling price is:

| a. | ₹ 1,220 |  |  |
|----|---------|--|--|
| b. | ₹ 1,380 |  |  |
| c. | ₹ 1,500 |  |  |
| d. | ₹ 1,310 |  |  |

- 62. In a joint family of 16 persons, the eldest and the youngest members have (+1, -0.25) an age difference of 82 years. If these two are left out of the counting, then the average age of the remaining 14 persons is 28. The average age of the entire family being 30, what is the age of the eldest person?
  - **a.** 85 years
  - b. 88 years
  - c. 76 years our Personal Exams Guide
  - **d.** 60 years
- **63.** If the mode of the following date is 11, then find the value of k:

(+1, -0.25)

- 11, 8, 9, (2k 1), 11, 12, 12, 18, 14, 16 **a.** 5
- **b.** 6
- **c.** 7





### **d.** 4

64. The average of 9 numbers is 19. If the average of the first four numbers is (+1, -0.25) 14, then the average of last 5 numbers is:

**a.** 20

**b.** 10

**c.** 25.25

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**d.** 23

| 65. | Two nu        | mbers    | differ b | y 10. If th | eir LCM is 1 | 120 and I | HCF is 10, t | hen the | sum of | (+1, -0.25) |
|-----|---------------|----------|----------|-------------|--------------|-----------|--------------|---------|--------|-------------|
|     | the nun       | nber is: | :        |             |              |           |              |         |        |             |
|     | <b>a.</b> 130 |          |          |             |              |           |              |         |        |             |
|     | <b>b.</b> 120 |          |          |             |              |           |              |         |        |             |
|     | <b>c.</b> 70  |          |          |             |              |           |              |         |        |             |
|     | <b>d.</b> 50  |          |          |             |              |           |              |         |        |             |

**66.** The value of  $\left(16\frac{2}{3} \div 10\right) - \left[\left(\frac{8}{3} \times \frac{5}{4}\right) of \frac{2}{5} + \frac{16}{3} \times \frac{11}{8} - \left(\frac{1}{4} \div \frac{1}{28}\right)\right]$  is: (+1, -0.25)

| <b>a.</b> 1  |  |  |  |
|--------------|--|--|--|
| <b>b.</b> 5  |  |  |  |
| <b>c.</b> 0  |  |  |  |
| <b>d.</b> 10 |  |  |  |



67. The following graph shows the production of cotton cloth (in lakh meters) (+1, −0.25) by three companies A, B, and C over the years.



In which years the production of company C is 81.94% (correct to 2 decimal places) of the combined production of company A and company B?

- a. <sup>1996</sup>Your Personal Exams Guide b. <sup>1998</sup>
- **c.** 2000
- **d.** 1999
- 68. A large container has a 50 litre mixture of juice and water in the ratio 3 : 2. (+1, -0.25) To this, a 60 litre juice and water mixture is added, that has a juice to water ratio of 2 : 1. After this, 11 litres of the solution is replaced with pure juice. What is the ratio of water to juice in the final mixture?
  - **a.** 37 : 18





**b.** 29:81

**c.** 4:7

- **d.** 18:37
- **69.** The cost of leveling a square field at the rate of  $\neq$  52/m<sup>2</sup> is  $\neq$  1,30,000. (+1, -0.25) What will be the cost of fencing its boundary at the rate of  $\neq$  35/m?
  - **a.** ₹ 2,500
  - **b.** ₹ 7,000
  - **c.** ₹ 87,500
  - **d.** ₹ 3,500
- 70. Seats in a college for B.Sc. course for Physics, Chemistry and Biology, are (+1, -0.25) in the proportion of 7:5:8. There is a proposal to increase the seats by 50%, 40% and 25%, respectively. What will be the proportion of the increased seats?
  - **a.** 7:4:4
  - **b.** 12:9:33
  - **c.** 21 : 14 : 20
  - **d.** 57:45:33
- 71. A survey was conducted on 80 families to know about their favorite place (+1, -0.25) to visit out of 6 particular locations. The same has been shown in the following pie chart.





What is the central angle for the families who showed interest for visiting Jaipur?

| <b>a.</b> 15° |  |  |  |
|---------------|--|--|--|
| <b>b.</b> 25° |  |  |  |
| <b>c.</b> 54° |  |  |  |
| <b>d.</b> 60° |  |  |  |

- 72. Ankit invests some money at 9% simple interest for 2 years, and the same (+1, -0.25) sum for 4 years at 10% per annum. He earns ₹ 1,740 in all. The sum invested in each case is:
  - **a.** ₹ 4,350
  - **b.** ₹ 3,000
  - **c.** ₹ 6,000
  - **d.** ₹ 4,500

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73. A is 30% more efficient than B. If B finishes a work in 13 days, then in how (+1, -0.25) many days will A finish the same work?

| <b>a.</b> 11 |  |  |  |
|--------------|--|--|--|
| <b>b.</b> 9  |  |  |  |
| <b>c.</b> 10 |  |  |  |
| <b>d.</b> 12 |  |  |  |

- 74. A typist uses a paper of size 32 cm × 20 cm. He leaves a margin of 2 cm (+1, -0.25) each on all the sides. If he leaves a margin of 1 cm only on all the sides, then what is the percentage of the increase in the are available for typing (correct to 2 decimal places)?
  a. 20.54%
  b. 82.96%
  c. 17.04%
  - d. 79.46% Our Personal Exams Guide
- 75. Amit covers a certain distance on his bike at a speed of 40 km/h in 15 (+1, -0.25) min. If he wants to cover the same distance in 12 min, then what should his speed be?
  - **a.** 60 km/h
  - **b.** 50 km/h
  - **c.** 72 km/h

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**d.** 32 km/h

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## **General Awareness**

- **76.** Who among the following built the first European fort in India in the year (+1, −0.25) 1503?
  - a. Portuguese
  - b. Dutch
  - c. French
  - **d.** British

77. Which state became the first fully organic farming state in 2016? (+1, -0.25)

- a. Assam
  b. Sikkim
  c. Punjab
  d. Goa
- **78.** Which part of the world has become the highest density of population as (+1, −0.25) of September 2020?
  - **a.** East Australia
  - **b.** North America
  - **c.** East Africa

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d. South Central Asia





- 79. What do you call the transparent front part of the eye? (+1, -0.25)
  - **a**. Iris
  - **b.** Pupil
  - **c.** Retina
  - **d.** Cornea
- **80.** Which Indian city was included in the UNESCO Creative Cities Network for (+1, −0.25) its contribution to music in November 2017?



- 81. Which of the following is an essential element used in the synthesis of (+1, -0.25) proteins in plants?
  - **a.** Sodium
  - b. Chlorine
  - c. Nitrogen
  - d. Calcium

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- **82.** The Chalukya Dynasty ruled in Vatapi which is in the modern day Indian (+1, -0.25) state of \_\_\_\_\_.
  - **a.** `Kerala
  - **b.** Gujarat
  - **c.** Karnataka
  - **d.** Tamil Nadu
- 83. Which Indian Lawn Tennis player became the first Asian player to win the (+1, -0.25) Boys' Singles title at Wimbledon in 1954?



- b. Anand Amritraj
- c. Ramanathan Krishnan
- d. Ramesh Krishnan
- **84.** Which of the following is one of the main active sulphur containing (+1, -0.25) compounds present in garlic and onion?

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- **a.** Allicin
- b. Cellulose
- **c.** Ethanol
- d. Phenol

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- **85.** Pochampally Ikat sarees and dress materials, famous for their traditional (+1, -0.25) geometric patterns, belong to the state of \_\_\_\_\_.
  - **a.** Telangana
  - **b.** Tamil Nadu
  - **c.** Karnataka
  - **d.** Kerala



88. 'Muya Awandru' is a traditional food of this Indian state.

(+1, -0.25)





'मुया अवंद्रू' इस भारतीय राज्य का एक पारंपरिक भोजन है।

- a. Gujarat
- **b.** Karnataka
- c. Chattisgarh
- **d.** Tripura
- 89. A paper instructing the bank to pay a specific amount from a person's (+1, -0.25) account to another person in whose name it has been issued is known as:
  - **a.** cash
  - b. cheque
  - **c.** passbook
  - d. currency

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- **90.** Who among the following was appointed as the First Lieutenant Governor (+1, -0.25) of Ladakh in October 2019?
  - a. Radha Krishna Mathur
  - **b.** Anil Baijal

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- c. Dineshwar Sharma
- d. Girish Chandra Murmu







- 91. If two forces act on an object from opposite directions, then the (+1, -0.25) magnitude of the net force acting on it is the \_\_\_\_\_ of the magnitudes of the two forces.
  - a. product
  - **b.** sum
  - **c.** ratio
  - d. difference
- 92. What is the maximum amount of investment permissible per senior (+1, -0.25) citizen under Pradhan Mantri Vaya Vandana Yojana?
  a. ₹ 10 lakh
  b. ₹ 15 lakh
  c. ₹ 7 lakh
  d. ₹ 25 lakh
- 93. India and Pakistan had signed the \_\_\_\_\_, under which the two (+1, -0.25) countries agreed to sort out differences and disputes bilaterally.
  - a. Calcutta pact
  - **b.** Simla Pact
  - c. Lucknow Pact
  - d. Agra Pact

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- 94. Rani Rudrama Devi was a famous ruler of the \_\_\_\_\_ dynasty. (+1, -0.25)
  - **a.** Pandya
  - **b.** Chola
  - c. Chera
  - **d.** Kakatiya
- **95.** In which year did India give shelter to Dalai Lama, the Tibetan spiritual (+1, −0.25) leader?

| <b>a.</b> 1962 |  |  |  |
|----------------|--|--|--|
| <b>b.</b> 1957 |  |  |  |
| <b>c.</b> 1960 |  |  |  |
| <b>d.</b> 1959 |  |  |  |

- 96. Which of the following is a low grade brown coal that is soft with high (+1, −0.25) moisture content?
  - **a**. Bituminous
  - **b.** Anthracite
  - **c.** Peat
  - d. Lignite

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- 97. What do you call one of the most famous constellations that we can see (+1, −0.25) during summer time in the early part of the night?
  - a. Cassiopeia
  - **b.** Ursa Minor
  - **c.** Orion
  - **d.** Ursa Major

98. In terms of coal reserves, India's rank in the world as of April 2020 was: (+1, -0.25)

| <b>a</b> . ninth |  |  |
|------------------|--|--|
| <b>b.</b> fifth  |  |  |
| c. seventh       |  |  |
| d. third         |  |  |

99. Who among the following helped Kaira District Co - operative Milk (+1, -0.25) Producers' Union Ltd expand its work, ushering in the White Revolution?

- a. Verghese Kurien
- **b.** Azar Iqbal
- c. Baba Amte
- d. Sunderlal Bahuguna

**100.** 'Ace against Odds' is an autobiography by \_\_\_\_\_.

(+1, -0.25)





- **a.** Hima Das
- **b.** Sania Mirza
- c. Dutee Chand
- d. Mary Kom

# Your Personal Exams Guide







#### Answers

#### 1. Answer: b

#### **Explanation:**

The correct answer is **'unless reading is'**.

#### 🛨 Key Points

- The given sentence is grammatically incorrect.
- Here, 'unless reading is' should be used instead of 'until reading are'.
- **'Unless'** refers to a **precondition**, it means except if. ' **Until** ' implies up to the point of time given, i.e. before that.
- In the given sentence, no point of time is being referred. Hence, '**until**' should be changed into '**unless**'.
- 'are' should be changed into 'is' because the subject 'a good reader' is singular.

<u>Correct Sentence:</u>You will never become a good reader **unless reading is** done with a purpose.

#### 🛨 <u>Hinglish</u>

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहां, 'until reading are' के बजाय 'unless reading is' का उपयोग किया जाना चाहिए।
- 'Unless' एक precondition को संदर्भित करता है, इसका मतलब है कि अगर को छोड़कर। 'Untill' का तात्पर्य दिए गए बिंदु या समय तक, यानी उससे पहले तक है।
- दिए गए वाक्य में समय का कोई बिंदु निर्दिष्ट नहीं किया जा रहा है। इसलिए, ' **until** ' को ' **unless** ' में बदलना चाहिए।
- 'are'को'is'में बदल देना चाहिए क्योंकि विषय 'a good reader' एकवचन है।
- 2. Answer: d

#### Explanation:

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The correct answer is 'Children leaving their parents' home to live on their own'.

#### 🛨 <u>Key Points</u>

- The most appropriate meaning of the given idiom 'Fly the nest' is 'Children leaving their parents' home to live on their own'.
- Fly the nest: (of a young person) leave their parents' home to set up home elsewhere. ((एक युवा व्यक्ति का) अपने माता-पिता के घर को कहीं और घर स्थापित करने के लिए छोड़ देना)
  - Example: When their children had **flown the nest,** they moved to a cottage in Dorset.

<u>Correct Answer:</u>Children leaving their parents' home to live on their own.

#### 3. Answer: b

#### **Explanation:**

The correct answer is ' forward '.

#### 🛨 Key Points

- The given sentence is grammatically incorrect.
- Here, ' forward ' should be used instead of ' onward '.
- Come Forward is a phrasal verb meaning 'volunteer oneself for a task or post or to give evidence about a crime'. (किसी कार्य या पद के लिए स्वयंसेवा करना या किसी अपराध के बारे में सबूत देना)
  - For Example Two witnesses have **come forward** with information.

<u>Correct Sentence:</u>Many industrialists are coming *forward* to help migrant workers find employment in their villages and cities.

#### 🛧 Additional Information

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- Let's look at the **meaning** of other words:
  - Towards : in the direction of somebody/something. (की ओर)
  - Backward : directed towards the back. (उलटा, पश्चगामी)

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• **Onward** : in a continuing forward direction; ahead. (निरंतर आगे की दिशा में; आगे)





#### 4. Answer: d

#### **Explanation:**

The correct answer is 'Lullaby'.

#### 🛨 <u>Key Points</u>

- The most appropriate word for the given group of words is 'Lullaby'.
- It means 'a gentle song that you sing to help a child to go to sleep'. [(बच्चों के लिए) लोरी]
  - Example: The infant's mother sang her Hush Little Baby every night, so it quickly became the child's favorite **lullaby**.

#### Correct Answer: Lullaby.

#### 🔶 Additional Information

- Let's look at the **meaning** of other words:
  - Chorus : the part of a song that is repeated at the end of each verse. (सहगान; पुनरावृत्त होने वाला गीतखंड)
  - Prayer: the words that you use when you speak to God or a god. (प्रार्थना)
  - Hymn : a religious song or poem of praise to God or a god. (एक धार्मिक गीत या भगवान की स्तुति की कविता; भजन)

#### 5. Answer: a

#### **Explanation:**

The correct answer is 'How long'.

#### 🔶 <u>Key Points</u>

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• The most appropriate option for the given sentence is 'How long'.



- When usually indicates a specific point in time or something that is considered as a specific point.
- How long indicates a period or length of time, with a beginning and ending point.
  - Example: How long have you been here?

<u>Correct Sentence: How long have you been waiting for me here?</u>

#### 🛨 <u>Hinglish</u>

- दिए गए वाक्य के लिए सर्वाधिक उपयुक्त विकल्प 'How long' है।
- 'When' आमतौर पर समय में एक विशिष्ट बिंदु या कुछ ऐसा इंगित करता है जिसे एक विशिष्ट बिंदु माना जाता है।
- 'How long' एक शुरुआत और समाप्ति बिंदु के साथ एक अवधि या समय की अवधि को इंगित करता है।
  - Example: How long have you been here?

#### 6. Answer: b

#### Explanation:

The correct answer is ' harsh'.

#### 🛨 Key Points

- The most appropriate antonym of the given word ' Subtle' is ' Harsh'.
- **Subtle** : not very noticeable; not very strong or bright. (बहुत गाढ़ा या चमकदार नहीं, हलका; सूक्ष्म, बारीक)
  - Example: He gave **subtle** hints, which I totally failed to notice.

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Harsh : having an undesirably strong effect; unpleasantly rough or jarring to the senses. (कठोर; अवांछित रूप से मजबूत प्रभाव होना; अप्रिय रूप से खुरदरा या इंद्रियों को झकझोरने वाला)
 Example: He was sentenced to a harsh prison term.

#### Correct Answer: H arsh .

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#### 🛧 Additional Information

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



- crafty : clever at getting or achieving things by using unfair or dishonest methods. (अनुचित तरीक़े से कुछ प्राप्त करने में चालाक; धूर्त, चालाक, चालबाज़)
- faint : to lose consciousness. (मूर्छित हो जाना)
- slight : very small; not important or serious. (बहुत छोटा; बड़ा या गंभीर नहीं, मामूली)

#### 7. Answer: c

#### **Explanation**:

The correct answer is ' **valid** '.

#### 🛨 <u>Key Points</u>

- The most appropriate word for the given blank is 'valid'.
- It means **'that is legally or officially acceptable'**. (वैधानिक या अधिकारिक रूप से मान्य; विधिमान्य)
  - Example: This passport is **valid** for one year only.
- The given sentence is trying to express the fact that the discount coupons were only acceptable till six months from the date of issue. (दिया गया वाक्य इस तथ्य को व्यक्त करने का प्रयास कर रहा है कि डिस्काउंट कूपन जारी होने की तारीख से छह महीने तक ही स्वीकार्य थे।)

<u>Correct Sentence:</u>These discount coupons are valid for only six months from the date of issue.

#### 🔶 Additional Information

repo

- Let's look at the **meaning** of other words:
  - attested : witness or certify formally. (साक्ष्यांकित)
  - tested : to try, use or examine something carefully to find out if it is working properly or what it is like. [किसी वस्तु को सावधानी से आज़माना, इस्तेमाल करना या परखना (जानने के लिए कि वह कैसी है या क्या है)]
  - solid : hard and firm; not in the form of liquid or gas. (कड़ा और पक्का; द्रव या गैस नहीं, ठोस)







#### 8. Answer: b

#### **Explanation:**

The correct answer is ' Grajual'.

#### 🔶 <u>Key Points</u>

- Among the given options, the incorrectly spelt word is ' Grajual'.
- Its correct spelling is ' Gradual '.
- It means 'happening slowly or over a long period of time; not sudden'. (मंद गति से लंबी कालावधि में संपन्न; एकाएक नहीं, क्रमिक)
  - Example: There has been a **gradual** change in the climate.

#### 🛧 Additional Information

- Let's look at the **meaning** of other words:
  - Manual : using your hands; operated by hand. (जिसमें हाथों का प्रयोग हो; हस्त-चालित)
  - Mutual : (used about a feeling or action) felt or done equally by both people involved. [(कोई मनोभाव या क्रिया) दोनों पक्षों द्वारा समान रूप से एक दूसरे के प्रति अनूभूत या संपादित, पारस्परिक, आपसी]
  - Usual : happening or used most often. (बहुधा होने या प्रयोग में आने वाला; सामान्य)

#### 9. Answer: a

#### **Explanation:**

The correct answer is ' strict '.

#### 🛨 <u>Key Points</u>

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• The most appropriate synonym of the given word ' Stern ' is Strict '.

- Stern : very serious; not smiling. (कठोर, बहुत गंभीर; मुस्कान-रहित)
  - Example: His voice was **stern** again.





- Strict : not allowing people to break rules or behave badly. [सख़्त, कठोर (नियम भंग या ग़लत व्यवहार को सहन न करने वाला)]
  - Example: Samir's very **strict** with his children.

#### Correct Answer: strict.

#### 🔶 Additional Information

- Let's look at the **meaning** of other words:
  - mild : not strong; not very bad. (नरम; हलका)
  - lenient: (used about punishment or person who punishes) not as strict as expected. [(दंड या दंड देने वाला व्यक्ति) जो आशा के अनुरूप कठोर न हो; नरम, सौम्य]
  - gentle : (used about people) kind and calm; touching or treating people or things in a careful way so that they are not hurt. [(व्यक्ति) दयालु और शांत; बिना चोट पहुँचाए कोमलता से व्यवहार करने वाला; सौम्य]

#### 10. Answer: d

#### **Explanation:**

The correct answer is 'Why did you spent'.

## ★ <u>Key Points</u>ur Personal Exams Guide

- The given sentence is grammatically incorrect.
- Here, 'Why did you spend' should be used instead of 'Why did you spent'.
- We know that after ' did', the base form of the verb i.e. spend should be used.
   *Example: Julia didn't come at all last night.*

<u>Correct Sentence:</u>*Why did you spend* so much money on old and useless furniture?

#### 🛨 <u>Hinglish</u>

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- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहां 'Why did you spent' के बजाय 'Why did you spend' का इस्तेमाल किया जाना चाहिए।
- हम जानते हैं कि ' did ' के बाद verb के base form यानी ' spend ' का इस्तेमाल करना चाहिए।

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• Example: Julia didn't come at all last night.



#### 11. Answer: b

#### **Explanation:**

The correct answer is ' enrage '.

#### 🔶 <u>Key Points</u>

- The most appropriate synonym of the given word ' Provoke ' is ' Enrage '.
- **Provoke** : to cause a particular feeling or reaction. (विशेष भाव या प्रतिक्रिया उत्पन्न करना; उकसाना)
  - Example: His remarks **provoked** both tears and laughter.
- Enrage : to make somebody very angry. [(किसी व्यक्ति को) बहुत ग़ुस्सा दिलाना, अत्यधिक क्रोधित कर देना]
  - Example: His thoughtless behavior **enraged** us.

#### Correct Answer:enrage.

#### 🔶 Additional Information

- Let's look at the **meaning** of other words:
  - gratify : to give somebody pleasure and satisfaction. (प्रसन्नता और संतोष देना)
  - placate : to make somebody feel less angry about something. (किसी को शांत करना)
  - hinder : to make it more difficult for somebody/something to do something. (व्यक्ति या वस्तु के लिए कठिनाई पैदा करना, किसी के काम में बाधा डालना)

#### 12. Answer: d

#### Explanation:

The erroneous part is 'teacher were teaching'.

🛨 <u>Key Points</u>

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- The given sentence is grammatically incorrect.
- Here, 'teacher was teaching' should be used instead of 'teacher were teaching'.
- The given sentence is an example of subject-verb agreement.
- In the given sentence 'the teacher' is a singular noun. Hence, a singular helping verb should be used.

<u>Correct Sentence</u>: They went on talking while the **teacher was teaching** an important lesson.

#### 🔶 <u>Hinglish</u>

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहाँ 'teacher were teaching' के स्थान पर 'teacher was teaching' का प्रयोग किया जाना चाहिए।
- दिया गया वाक्य subject-verb agreement का एक उदाहरण है।
- दिए गए वाक्य में **'the teacher'** एक **singular noun** है। इसलिए, singular **helping verb** का उपयोग किया जाना चाहिए।

#### 13. Answer: a

#### **Explanation:**

The correct answer is 'Nepotism'.



- The most appropriate word for the given group of words is ' Nepotism '.
- It means 'using your power or influence to give unfair advantage to your family, especially by giving them jobs'. (अपने अधिकार या प्रभाव से परिवार के सदस्यों का अनुचित लाभ (विशेषतः नौकरी देना) पहुँचाना; भाई-भतीजावाद, कुनबापरस्ती)
  - Example: The **nepotism** in which the pope indulged is especially inexcusable.

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#### Correct Answer: Nepotism.



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



- Nationalism : the desire of a group of people who share the same race, culture, language, etc. to form an independent country. (जाति, संस्कृति, भाषा आदि की समानता के आधार पर एक स्वतंत्र राष्ट्र-बनाने की जन-भावना)
  - For Example The war was caused by **nationalism** and greed.
- Despotism : the exercise of absolute power, especially in a cruel and oppressive way. (पूर्ण शक्ति का प्रयोग, विशेष रूप से क्रूर और दमनकारी तरीके से)
  - For Example By the end of the 20th century many countries around the world had rejected **despotism** in favor of democracy.
- **Narcissism** : the habit of admiring yourself too much, especially your appearance. (स्वयं की अत्यधिक प्रशंसा करने का स्वभाव (विशेषकर सौंदर्य); आत्मरति)
  - For Example In his narcissism, he just assumed that everyone else wanted to hear the tiny details of his day.

#### 14. Answer: d

#### **Explanation:**

The correct answer is ' raised '.

#### 🛨 <u>Key Points</u>

- The most appropriate word for the given blank is ' raised '.
- The given sentence is in the past tense as the **past adverb 'last year'** is used.
- Raised means 'to increase the level of something or to make something better or stronger'. (किसी वस्तु के स्तर में वृद्धि करना या उसे बेहतर या अधिक सशक्त करना)
   *Example: The bank raised interest rates.*
- In the given sentence, the employer increased the salary of the person last year.

<u>Correct Sentence:</u>My employers raised my salary last year.

#### 🔶 Confusion Points

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• The verbs **raise** and **rise** both refer to something **going "up"**.

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• The main difference between them is that **raise is transitive** (it must have a direct object) and **rise is intransitive** (no direct object).





- In the given sentence, the employer increased the person's salary. It did not increase by itself.
- Thus, we need a **transitive verb** i.e. **raise** .

#### 15. Answer: c

#### **Explanation:**

The correct answer is ' of '.



- The most appropriate word for the given blank is ' of '.
- Here, in the given sentence 'tired of' is a phrasal verb.
- It means 'to be frustrated or bored of repeating the same thing'. (एक ही बात को दोहराने से निराश या ऊब जाना)
  - Example: She was **tired of** hearing the same dreary tale of drunkenness and violence.
- After preposition 'v1+ing' is used. In the given sentence, ' reminding ' is that verb .

<u>Correct Sentence:</u>/ am tired of reminding you to clean your room.

## Your Personal Exams Guide

#### 16. Answer: c

#### Explanation:

The correct answer is ' founded '.

#### 🛨 <u>Key Points</u>

• The most appropriate word for the given blank is ' founded '.

- It means 'establish or originate (an institution or organization)'. [किसी संस्था या संगठन की स्थापना या उत्पत्ति]
  - Example: The monastery was founded in 1665.
- As per the definition given above ' **founded** ' fits the best in the given context.



Correct Sentence: Swami Dayanand founded the Arya Samaj.

#### 🛧 Additional Information

- Let's look at the **meaning** of other words
  - **invented** : to think of or make something for the first time. (कोई बात प्रथम बार सोचना या वस्तु प्रथम बार बनाना, किसी बात या वस्तु का आविष्कार करना)
  - developed : grow or cause to grow and become more mature, advanced, or elaborate. (विकसित करना)
  - discovered : to find or learn something that nobody had found or knew before. (किसी नई बात का पता लगाना या उसे जानना)

#### 17. Answer: b

#### **Explanation:**

The correct answer is ' start '.

#### 🔶 <u>Key Points</u>

- The most appropriate antonym of the given word ' Cease ' is ' Start '.
- Cease : to stop or end. (समाप्त होना या करना; रुकना या रोकना)
   Example: Fighting in the area has now ceased.
- **Start** : to begin doing something. (कुछ करना आरंभ करना)
  - Example: We'll have to **start** early to catch the bus.

#### Correct Answer:start.

#### 🛨 Additional Information

- Let's look at the **meaning** of other words:
  - stop: (of an event, action, or process) come to an end; cease to happen.
     (विराम)
  - catch : to take hold of something that is moving, usually with your hand or hands. (हाथों में लेना; पकड़ना; थामना)
  - halt : a short stop in some activity, movement, or growth. [(कार्य, गतिविधि या विकास प्रक्रिया में) लघु विराम या रुकाव]





#### 18. Answer: d

#### **Explanation:**

The erroneous part is 'The elegance furnished'.

#### 🛨 Key Points

- The given sentence is grammatically incorrect.
- Here, 'the elegantly furnished' should be used instead of 'the elegance furnished'.
- In the given sentence **adverb** of ' **elegance** ' that is ' **elegantly** ' should be used because an adverb is a word or phrase that modifies or qualifies an adjective, verb, or other adverb or a word group, expressing a relation of place, time, circumstance, manner, cause, degree, etc.
- In the given sentence ' elegantly ' is modifying the adjective ' furnished '.
- The word ' elegantly ' means 'in a graceful and stylish manner'.
  - Example: a handsome, *elegantly* dressed businessman...

<u>Correct Sentence:</u> The elegantly furnished drawing room indicated that the owner had good taste.

🛨 <u>Hinglish</u>

reps

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहां 'the elegance furnished' के स्थान पर 'the elegantly furnished' का प्रयोग किया जाना चाहिए।
- दिए गए वाक्य में ' elegance ' का adverb जो ' elegantly ' है, का उपयोग किया जाना चाहिए क्योंकि एक क्रिया विशेषण (adverb) एक शब्द या वाक्यांश है जो स्थान, समय, परिस्थिति, तरीके, कारण, डिग्री आदि के संबंध को व्यक्त करते हुए एक विशेषण (adjective), क्रिया (verb), या अन्य क्रिया विशेषण (adverb)या एक शब्द समूह को संशोधित या योग्य बनाता है।
- दिए गए वाक्य में ' elegantly ' विशेषण 'furnished' को modify कर रहा है।
- 'Elegantly' शब्द का अर्थ है 'शानदार और स्टाइलिश तरीके से'।
  - Example: a handsome, *elegantly* dressed businessman...



#### 19. Answer: d

#### **Explanation:**

The erroneous spelling is 'Sugestion'.

#### 🔶 <u>Key Points</u>

- Among the given options, the incorrectly spelt word is ' Sugestion '.
- Its correct spelling is 'Suggestion'.
- It means 'a plan or idea that somebody mentions for somebody else to discuss and consider'. [(चर्चा या विचार हेतु) कोई सुझाव (कोई योजना या राय)]
  - Example: May I make a suggestion ?

#### 🔶 Additional Information

- Let's look at the **meaning** of other words:
  - **Mediocre** : of not very high quality. [औसत दर्जे का (उच्च कोटि का नहीं), दरम्याना, साधारण]
  - Legible : that is clear enough to be read easily. (इतना साफ़ कि पढ़ने में आसानी हो; सुवाच्य, सुपाठ्य)
  - Opaque : that you cannot see through. (अपारदर्शी)

# Your Personal Exams Guide

#### 20. Answer: b

#### **Explanation:**

The correct answer is 'To have no idea of the answer'.

#### 🔶 <u>Key Points</u>

- The most appropriate answer for the given idiom 'Your guess is as good as mine' is 'To have no idea of the answer'.
- Your guess is as good as mine: used for emphasis when one doesn't know the answer to a question. (जोर देने के लिए उपयोग किया जाता है जब किसी को किसी प्रश्न का उत्तर नहीं







पता होता है)

 Example: "What's her problem?" "I have no idea. Your guess is as good as mine."

<u>Correct Answer:</u> To have no idea of the answer.

#### 21. Answer: d

#### **Explanation:**

The correct answer is ' **the**'.

#### 🛨 Key Points

- The most appropriate answer for the given blank is ' the '.
- Article **'the'** before a noun shows that what is referred to is already known to the speaker, listener, writer, and/or reader (it is the definite article).
  - Example: We had to paint**the**apartment before we sold it. (The speaker and the listener know what apartment is being referred to.)
- In the given blank ' **the** ' is referring to the native people.

<u>Correct Paragraph</u>: Albert soon got to learn the language of <u>the</u> native people. Now, he could talk to (2) \_\_\_\_\_ about their problems. They too began to (3) \_\_\_\_\_ him for advice. Some people, (4) \_\_\_\_\_, were too shy to share their concerns. Albert eventually (5) \_\_\_\_\_ them that he was there is to assist them in all matters.

#### 22. Answer: b

#### **Explanation:**

The correct answer is ' **them** '.

🛨 <u>Key Points</u>

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- The most appropriate word for the given blank is ' **them**'.
- Here, 'them' is referring the native people. 'Them' is the objective pronoun of 'they'.
- Object pronouns are used instead of nouns, usually because we already know what the object is.
- Object pronouns are those pronouns that receive the action in a sentence.
- Here, the native people are receiving the action of Albert i.e. Albert talking to them about their problems.
- The objective pronouns are 'me, us, him, her, them, and whom'.

<u>Correct Paragraph</u>: Albert soon got to learn the language of <u>the</u> native people. Now, he could talk to <u>them</u> about their problems. They too began to (3) \_\_\_\_\_ him for advice. Some people, (4) \_\_\_\_\_, were too shy to share their concerns. Albert eventually (5) \_\_\_\_\_ them that he was there is to assist them in all matters.

#### 23. Answe<mark>r: c</mark>

#### **Explanation**:

The correct answer is ' approach '.

#### 🛨 Key Points

## <u>Your Personal Exams Guide</u>

- The most appropriate answer for the given blank is ' **approach**'.
- In the given context it means 'an act of communicating with another person or group in order to ask for something; to begin to deal with a problem, a situation, etc. (कुछ मांगने के लिए किसी अन्य व्यक्ति या समूह के साथ संवाद करने का कार्य; किसी समस्या या स्थिति से निपटना शुरू करना)
  - Example: What is the best way to **approach**this problem?
- The given sentence is trying to express the fact that the native people started meeting or communicating with Albert in order to take advice from him. (दिया गया वाक्य इस तथ्य को व्यक्त करने का प्रयास कर रहा है कि मूल निवासियों ने अल्बर्ट से सलाह लेने के लिए मिलना या संवाद करना शुरू कर दिया।)

<u>Correct Paragraph:</u>Albert soon got to learn the language of<u>the</u>native people. Now, he could talk to<u>them</u>about their problems. They too began to<u>approach</u>him for





advice. Some people, (4) \_\_\_\_\_, were too shy to share their concerns. Albert eventually (5) \_\_\_\_\_ them that he was there is to assist them in all matters.

#### 🛨 Additional Information

- Let's look at the **meaning** of other words:
  - appear : to seem. (प्रतीत होना, लगना)
  - **advance**: to move forward. (आगे बढ़ना)
  - arrange : to put something in order or in a particular pattern. (व्यवस्थित करना, क्रम विशेष से सजाना)

#### 24. Answer: b

#### **Explanation:**

The correct answer is ' however'.

#### 🔶 <u>Key Points</u>

- The most appropriate word for the given blank is ' however'.
- It is used for adding a comment to what you have just said. It means 'despite this'. [(अभी कही बात के साथ कुछ और कहने के लिए प्रयुक्त) तथापि, तो भी]
  - Example: This is one possible solution to the problem. However, there are others.
- The given sentence is trying to express the fact that the native people started to approach him for advice but some were still very shy to share their concerns.

<u>Correct Paragraph</u>: Albert soon got to learn the language of <u>the</u> native people. Now, he could talk to <u>them</u> about their problems. They too began to <u>approach</u> him for advice. Some people, <u>however</u>, were too shy to share their concerns. Albert eventually (5) \_\_\_\_\_ them that he was there is to assist them in all matters.

#### 🛨 Additional Information

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- Let's look at the **meaning** of other words:
  - furthermore : also; in addition. (भी; के अतिरिक्त)





- therefore : for that reason. (उस कारण से; इसलिए, अतएव)
- moreover : (used for adding another fact) also; in addition. [(कुछ और जोड़ने के लिए प्रयुक्त) साथ ही; के अतिरिक्त]

#### 25. Answer: d

#### **Explanation**:

The correct answer is 'assured'.



- The most appropriate word for the given blank is 'assured'.
- It means 'tell someone something positively to dispel any doubts.'. (आश्वासित; आत्मविश्वासी)
  - Example: Everything's okay, she**assured**him.

<u>Correct Paragraph:</u>Albert soon got to learn the language of <u>the</u>native people. Now, he could talk to<u>them</u>about their problems. They too began to<u>approach</u>him for advice. Some people,<u>however</u>, were too shy to share their concerns. Albert eventually<u>assured</u>them that he was there to assist them in all matters.

## \* Additional Information sonal Exams Guide

- Let's look at the **meaning** of the words:
  - Settled : not changing or not likely to change. (स्थिर)
  - Decided : clear; definite. (स्पष्ट; निश्चित)
  - Confirmed : fixed in a particular habit or way of life. [(आदत या जीवन-शैली) न बदली जा सकने वाली; पक्की, स्थायी]

#### 26. Answer: d

#### **Explanation:**

Six objects: F, G, H, J, K, L





i. H is twice heavy as K, and J is one and half times as heavy as F.

- ⇒ H = 2K, J = 1.5F
- $\Rightarrow$  K < H, F < J

ii. G is half as heavy as J.

- ⇒ G = 0.5J
- ⇒G < J
- $\Rightarrow$  F, G < J

iii. F and J together are less heavy than H.

 $\Rightarrow$  F + J < H

 $\Rightarrow$  K < F + J < H

iv. J and L together are twice as heavy as F.

 $\Rightarrow$  J + L = 2F

I. J is one and half times as heavy as F. Let us assume weight of **F** = 10x and **J** = 15x

## <sup>J>F</sup> Your Personal Exams Guide

II. Both F and J together are less heavy than H. F + J = 25x . Hence, weight of H > 25x.

#### H > J > F

III. G is half of J. J is one and half times heavy as F. Therefore weight of G = 7.5x

#### H > J > G > F

IV. J and L together twice heavy as F. J + L = 2F. 15x + L = 2(10x), L = 20x - 15x = 5x.

#### H > J > G > F > L

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V. If weight of H > 25x. H is twice heavy as K then, possible weight of K > 12.5x.

Final arrangement in descending order will be as follows:

H > K/J > J/K > F > G > L.

Hence. the correct answer will be G.

#### 27. Answer: a

#### **Explanation:**

The logic followed here is:

Second term = (First term)  $^2$  × (first term - 1)

- $294 = (7)^2 \times (7 1) = 49 \times 6$
- Similarly,  $648 = (9)^2 \times (9 1) = 81 \times 8$

Hence, the correct answer is 648.

#### 28. Answer: a

#### **Explanation:**



The logic followed here is:





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- is rotating anticlockwise along the sides of the hexagon.







• is perpendicular to one of the sides of the hexagon in figures 2, and 4. It is parallel to one of the sides in figures 1, 3, and 5.



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- is rotating anticlockwise along the sides of the hexagon.
  - It skips 0 sides from figure 1 to figure 2.
  - It skips 1 side from figure 2 to figure 3.

    - It skips 2 sides from figure 3 to figure 4.





• It skips 3 sides from figure 4 to figure 5.





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Anticlocawise rotation



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

#### 29. Answer: a

#### **Explanation:**

The logic followed here is:

```
\sqrt{[(1stnumber)^2 + (3rdnumber)^2]} = middlenumber
```

{21, 29, 20}

$$=\sqrt{[(21)^2+(20)^2]}$$

- $=\sqrt{441+400}$  Ur Personal Exams Guide
- $=\sqrt{841}$  = 29 (middle number)

Option 1: {8, 17, 15}

- $=\sqrt{8^2+15^2}$
- $=\sqrt{64+225}$

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 $=\sqrt{289}$  = 17 (Middle number)

Hence, the correct answer is "{8, 17, 15} ".





#### 30. Answer: a

#### **Explanation:**

| Alphabets     | A  | в  | C  | D  | E  | F  | G  | Н  | I. | 1  | ĸ  | L. | М  |
|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Reverse value | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| Reverse value | 1  | 2  | З  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| Alphabets     | Z  | Y  | ×  | W  | V  | U. | Τ  | 5  | ार | 0  | P  | 0  | N. |

The pattern followed here is:

• WIDOWER is coded as VKAOXCU.



Similarly,

• FORTIFY = ? Personal Exams Guide

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

31. Answer: c

#### Explanation:







# Hence, the correct answer is "Option 3". Exams Guide

#### 32. Answer: a

#### **Explanation:**

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| Alphabets        | A  | В  | С  | D. | Е  | F  | G  | н  | ÷. | d  | К. | L  | м  |
|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Positional value | 1  | 2  | З  | 14 | 5  | 12 | 7  | в  | 9  | 10 | T  | 12 | 13 |
| Positional value | 26 | 25 | 24 | 25 | 22 | 21 | 20 | 19 | 15 | 17 | 76 | 15 | 14 |
| Alphabets        | Ŧ  | Y  | х  | Ŵ  | V  | L. | T  | s  | R  | Q, | P  | Ø  | N  |



**LOGIC**: First four letters are arranged in alphabetical order and the last four letters are arranged diagonally.

The pattern followed here is:








## 33. Answer: b

## Explanation:

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• The mirror image of the question figure is as follows:



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Hence, the correct answer is "Option 2".



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#### 34. Answer: a

## **Explanation:**

| Alphabers     | A  | Б  | C  | Ð  | E  | E  | G             | Н  | T. | J. | ĸ  | L  | M  |
|---------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|
| Reverse value | 26 | 25 | 24 | 25 | 22 | 21 | 20            | 19 | ٦Å | 17 | 16 | 15 | 14 |
| Reverse value | 1  | 2  | Э  | 4  | 5  | 6  | $\mathcal{T}$ | B  | 9  | τQ | 11 | 12 | 13 |
| Alphabeta     | Z  | Y  | X  | W. | V  | U  | T'            | E  | R  | q  | P  | D  | N  |

<u>LOGIC</u>: Code for consonants = Positional value of opposite letter - 5; code for vowel = Positional value + 6

The Pattern followed here is:

- Code for consonants = Positional value of opposite letter 5;
- code for vowel = Positional value + 6



and,

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• Code for consonants = Positional value of opposite letter - 5;

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• code for vowel = Positional value + 6





Similarly,

- Code for consonants = Positional value of opposite letter 5;
- code for vowel = Positional value + 6



Thus, GRUDGE is coded as "15427181511".

Hence, the correct answer is "15427181511".

## 35. Answer: b

## **Explanation:**

Least Possible Venn diagram:



**Conclusions:** 

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1. No lake is stream → Does not follow (it is possible but not definite)

This possibility can be shown using the below Venn diagram:



2. Some rivers are streams →Follows (According to statement 1 some streams are rivers so, some rivers are definitely "streams").

Here, Only conclusion 2 follows.

Hence, the correct answer is "Option 2".

#### 36. Answer: d

#### **Explanation:**

Given:

Six persons - A, B, C, D, E, and F

i. There are two boys between B and D, and D is just in front of E.

#### So, there have two possibility;

Possibility 1)



Possibility 2)



ii. A and C are adjacent to B.







Possibility 1)



Possibility 2)



iii. A is just behind E, and C is just in front of F.

Here Possibility 2 gets eliminated.

As A is not just behind E. The second possibility is to eliminate.

Therefore, it is clearly seen that **A and B**are exactly in the middle positions.

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Hence, the correct answer is "option 4".

## 37. Answer: d

## **Explanation**:

**Option 1): Given:** 9 × 3 - 7 +9 = 19

By interchanging + and × in the given equation

Interchanged equation is :  $9 + 3 - 7 \times 9 = 19$ 

⇒ <u>9 + 3</u>− 63 = 19

⇒ 12 - 63 = 19

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- ⇒ 51 ≠ 19
- ⇒LHS ≠ RHS

**Option 2):** 10 × 5 ÷ 10 +10 = 10

By interchanging + and × in the given equation

Interchanged equation is : 10  $+5 \div 10 \times 10 = 10$ 

- ⇒ 10 +<u>0.5 × 10</u>= 10
- $\Rightarrow$  10 + 5 = 10
- ⇒ 15 ≠ 10
- ⇒LHS ≠ RHS

**Option 3):** 4 ÷ 8 +6 × 3 = 8

By interchanging + and × in the given equation

Interchanged equation is :  $4 \div 8 \times 6 + 3 = 8$ 

⇒<u>0.5 × 6</u>+ 3 = 8

### \* 3+3=8 our Personal Exams Guide

⇒ 6≠8

⇒LHS ≠ RHS

**Option 4):** 18 × 3 ÷ 12 +8 = 20

By interchanging + and × in the given equation

Interchanged equation is:  $18 + 3 \div 12 \times 8 = 20$ 

⇒ 18 +<u>0.25 × 8</u>= 20

- ⇒ 18 + 2 = 20
- ⇒ 20 = 20

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#### $\Rightarrow$ LHS = RHS

Hence, the correct answer is "Option 4".

#### 38. Answer: c

Explanation:

| Alphatiers    | A  | Б  | C  | Ð  | E  | E  | G         | н  | T. | 4  | ĸ  | L  | M  |
|---------------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|
| Reverse value | 26 | 25 | 24 | 25 | 22 | 21 | 20        | 19 | 18 | 17 | 16 | 15 | 14 |
| Reverse value | T  | 2  | 3  | 4  | 5  | 6  | $\hat{t}$ | B  | 9  | τQ | 11 | j2 | 13 |
| Alphabeta     | Z  | Y  | х  | W. | V  | U  | T         | 6  | R  | q  | P  | D  | N  |

The logic followed here is :-



Similarly,

SECULAR : ?



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Hence, the correct answer is "Option 3".

#### 39. Answer: a

### **Explanation:**

Given: Eight friends P, Q, R, S, T, U, V and W are sitting in a row facing North.

1) Q sits to the immediate right of <u>P, who</u>is at one of the extreme ends of the line.

• Here P is at one the extreme ends of the line not Q.



2) Q sits third to the left of T and there are two persons between W and T.

1 1 1 1

3) U is not an immediate neighbor of S and sits to the immediate left of V.

Here U sits to the immediate left of V.

So there have two possibilities.

There are three persons between V and R.

Possibility 1)



Possibility 2)

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4) There are three persons between V and R.



As we cannot draw three persons between V and R . So the second possibility is eliminated.

It is clearly seen that R and S are sitting between Q and T.

Hence, the correct answer is "Option 1".

#### 40. Answer: d

#### **Explanation**:

The pattern followed here is :

- A poetry is a type of Literature.
- Similarly, a portrait is a type of painting.

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

#### 41. Answer: a

#### **Explanation:**

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Solve by the use of BODMAS Rule;

Given equation:  $10 \div 5 - 4 \times 3 + 6 = 13$ 

On checking and interchanged each option one by one:



1) Given: + and  $\div$  $= 10 + 5 - 4 \times 3 \div 6 = 13$  $= 10 + 5 - 4 \times 0.5$ = <u>10 + 5</u> - 2 = <u>15 - 2</u> = 13 = 13 (True) 2) Given: - and × =<u>10 ÷ 5</u> × 4 - 3 + 6 = 13 =<u>2 × 4</u>- 3 + 6 =<u>8</u>- 3<u>+ 6</u> =14 - 3  $= 11 \neq 13$  (False) 3) Given: ÷ and × = 10 × 5 - 4 ÷ 3 + 6 = 13 ersonal Exams Guide =10 × 5- 1.33 + 6 =50-1.33 = 54.67 ≠ 13 (False) 4) Given: + and -=<u>10 ÷ 5</u>+ 4 × 3 - 6 = 13 = 2 + <u>4 × 3</u>- 6 =<u>2 + 12</u>- 6 =<u>14 - 6</u>

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= 8 ≠ 13 (False)

Hence, the correct answer is "Option 1".

#### 42. Answer: c

#### **Explanation:**

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

Hence, the figure in **"Option 3"** is the correct answer.

| 3. <b>Ans</b> | wer: c                  |    |    |    |     |    |    |    |    |    |    |    |    |    |
|---------------|-------------------------|----|----|----|-----|----|----|----|----|----|----|----|----|----|
| Expl          | anation:                |    |    |    |     |    |    |    |    |    |    |    |    |    |
|               | Alphabets               | A  | В  | С  | D   | E  | F  | G  | н  | Ŧ  | З  | К. | L  | М  |
|               | <b>Positional value</b> | T  | 2  | з  | 141 | 5  | ñ. | 7  | в  | 3  | 10 | TT | 12 | 13 |
|               | Positional value        | 26 | 25 | 24 | 25  | 22 | 21 | 20 | 19 | 15 | 17 | 16 | 15 | 74 |
|               | Alphabets               | T  | Y  | X  | W   | V  | L. | 41 | s  | R  | 0  | P  | T  | N  |

The logic followed here is:

Sum of positional value of all letters - number of letters in a word = Number Code

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• CROWN = 3 + 18 + 15 + 23 + 14 = 73

Total number of letter in CROWN = 5

• Now, 73 - Total number of letter = 73 - 5 = 68

And,

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• DEPEND = 4 + 5 + 16 + 5 + 14 + 4 = 48





Total number of letter in DEPEND = 6

• 48 - Total number of letter = 48 - 6 = 42

#### Similarly,

• IMAGERY = 9 + 13 + 1 + 7 + 5 + 18 + 25 = 78

Total number of letter in IMAGERY = 7

• 78 - Total number of letter = 78 - 7 = 71

Hence, the correct answer is "Option 3".

#### 44. Answer: d



'45' is correct answer.

Hence, the correct answer is "Option 4".

#### 45. Answer: c





## **Explanation**:

The logic followed here is:

'Play' is related to 'Actor'  $\rightarrow$  An **Actor** exhibits his art through a **Play**.

Similarly,

'Concert' is related to 'Musician' → A **M usician** performs his/her art through a **Concert.** 

Hence, the correct answer is "Option 3".

#### 46. Answer: c

## **Explanation**:

Venn diagram according to the given information is:

Women, Employed, Mothers

- All mothers are women.
- Some of the mother can be employed and some of the women also can be employed.



Hence, the correct answer is "Option 3".

#### 47. Answer: c







## **Explanation:**

The least possible Venn diagram for the given statements will be as follows:



#### Conclusion:

I. Some corporations are villages → **False** (It is possible but not definite because there is no direct relation between corporation and villages.)

II. Some towns are corporations → **False** ( It is possible but not definite because there is no direct relation between towns and corporation. )

III. No corporation is village  $\rightarrow$  **False** (It is possible but not definite.)

When we combining the statement I and II we can say that either I or III follows

Either conclusion I or conclusion III follows

Hence, either I or III is the correct option.

#### 🛨 Important Points

- Some and No is complementary pair.
- Elements in the I and III conclusion are same .
- Individually both the statements are false.

#### 🛨 <u>Hint</u>

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Conditions of Either-or case:

1. Individually both the conclusions should be false.

2. One conclusion should be positive and one conclusion should be negative (Complementary pair)





- The two complementary pairs are:
- 1. All + Some not
- 2. No + Some

#### 48. Answer: b

## **Explanation**:

• The image obtained when the paper is unfolded:



Hence, the correct option is 2.

#### 49. Answer: b

## **Explanation**:

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The pattern followed here is: Concentration of the pattern followed here is:

| Alphabets       | a  | в  | D  | D  | E  | F  | G  | н  | $\mathbf{T}$ | F   | ю    | L  | $ J_{\rm y} $ |
|-----------------|----|----|----|----|----|----|----|----|--------------|-----|------|----|---------------|
| Posters velle   | 1  | 1  | Э  | 4  | 5  | ġ. | T  | 8  | g            | 10  | 11   | 12 | 13            |
| Postorial value | £θ | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 16           | .17 | 16   | 15 | 14            |
| Alphisters      | Z  | S  | *  | W  | V. | U. | T  | 5  | R            | 0   | (FI) | d. | 12            |

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

#### 50. Answer: d

## **Explanation**:

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The logic followed here is:

• The series is given on alternate double difference.



Hence, the correct answer is "79".





#### 51. Answer: c

### **Explanation:**

Given:

Sum = Rs. 22,500

Rate = 16%

Time = 1 year

Concept used:

When the sum is compounded half-yearly, then the rate of interest becomes half and time becomes double.

#### Formula used:

 $A = P(1 + R/100)^{T}$ 

CI = (A - P)

Calculation:

R = 16/2 = 8% If Personal Exams Guide

 $T = 2 \times 1 = 2$  years

According to the question

$$A = P(1 + R/100)^{T}$$

⇒ Rs. 26,244

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Now,

CI = (26,244 - 22,500)

⇒ Rs. 3,744

 $\therefore$  The required interest is Rs. 3,744

## 52. Answer: b

## **Explanation:**

Given:

12 men can complete a painting work in 8 days.

16 women can complete the same painting work in 12 days

8 men started painting the house.

After 6 days of painting, 2 men were replaced by 4 women

Formula used:

Work = Efficiency × Timersonal Exams Guide

#### Calculation:

12 men can complete a painting work in 8 days =  $(12 \times 8) = 96$ 

16 women can complete the same painting work in 12 days =  $(16 \times 12) = 192$ 

The ratio of men and women = (96: 192)

```
⇒1:2
```

Total work =  $(12 \times 1 \times 8) = 96$  units

Now,

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8 men started the painting for 6 days =  $(8 \times 1 \times 6)$  = 48 units

Remaining work = (96 - 48) = 48 units

2 men were replaced by 4 women =  $(4 \times 2) = 8$  women

Now,

Time taken to complete the remaining painting = (48/8)

⇒6 days

: The required time is 6 days

#### 53. Answer: a

## **Explanation**:

Given:

Profit = 15%

If its cost had been 5% less and it had been sold for ₹ 1,470 less, then the profit would have been 10%.

Calculation:

Let the Cost price of Almirah be x

Then,

SP = x + 15x/100

```
\Rightarrow (100x + 15x)/100
```

⇒ 115x/100

```
\Rightarrow 23x/20
```

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If its cost had been 5% less than CP





 $\Rightarrow$  [x - (x × 5/100)]  $\Rightarrow$  (x - 5x/100)  $\Rightarrow (100x - 5x)/100$  $\Rightarrow 95x/100$  $\Rightarrow 19x/20$ And, SP = 23x/20 - 1470Now, Profit% = [(23x/20 - 1470) - 19x/20/19x/20] $\Rightarrow$  (10 × 19x/20 × 1/100) = (4x/20 - 1470)  $\Rightarrow (19x/200 - 4x/20) = -1470$  $\Rightarrow (19x - 40x)/200 = -1470$  $\Rightarrow -21x/200 = -1470$  $\Rightarrow x = (1470 \times 200)/21$ ⇒x=(70×200) Personal Exams Guide ⇒ x = Rs. 14,000 : The required Cost price is Rs. 14,000

. .

### 🔶 <u>Alternate Method</u>

Let the cost of almirah be x

SP of almirah = (115/100 of x) = 1.15x

CP is 5% less =  $(95/100 \times x) = 0.95x$ 

If its cost had been 5% less and it had been sold for ₹1,470 less,

 $\Rightarrow SP - 1470 = 0.95x$ 

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According to the question

Profit% = [(SP - 1470) - 0.95x]/0.95x = 10/100  $\Rightarrow [(1.15 - 1470) - 0.95x]/0.95x = 1/10$   $\Rightarrow 1.15x - 1470 - 0.95x = 0.095x$   $\Rightarrow 0.2x - 1470 = 0.095x$   $\Rightarrow (0.2x - 0.095x) = 1470$  $\Rightarrow 0.105x = 1470$ 

⇒ x = 14000

 $\therefore$  The required Cost price is Rs. 14,000.

## 54. Answer: a

### **Explanation**:

Calculation:

The difference of enrollment in the two schools in 2015 = (532 - 515) = 17The difference of enrollment in the two schools in 2016 = (540 - 465) = 75The difference of enrollment in the two schools in 2017 = (550 - 490) = 60The difference of enrollment in the two schools in 2018 = (570 - 540) = 30The difference of enrollment in the two schools in 2019 = (750 - 600) = 150 $\therefore$  The difference of enrollment in the two schools, the least in 2015

#### 55. Answer: a





## **Explanation:**

Concept Used:

Follow the BODMAS rule according to the table given below:

| В   | Brackets in order (), {], [] | ब्रैकेट (), (), () क्रम 'में |
|-----|------------------------------|------------------------------|
| Q   | of                           | का                           |
| D   | Division (+)                 | विभाजन (÷)                   |
| IVI | Multiplication (¥)           | गुणा (४)                     |
| Ą   | Addition (+)                 | जोड़ (+)                     |
| s   | Subtraction (-)              | ম্বচাৰ ()                    |

Calculation:

$$\frac{119 - \left[ 48 \div 6 - 7 \left\{ 5 \times 12 \div 3 - \left(15 - \overline{3 - 8}\right) \right\} \right]}{24 \div 3 - 9 \text{ of } 3 + \left(52 - \overline{8 - 4}\right) \div 6}$$

 $\Rightarrow 119 - [48 \div 6 - 7\{5 \times 12 \div 3 - (15 + 5)\}]/24 \div 3 - 9 \text{ of } 3 + (52 - 4) \div 6$ 

$$\Rightarrow 119 - [48 \div 6 - 7\{5 \times 12 \div 3 - 20\}]/24 \div 3 - 9 \text{ of } 3 + 48 \div 6$$

$$\Rightarrow 119 - [8 - 7\{5 \times 12 \div 3 - 20\}]/24 \div 3 - 9 \text{ of } 3 + 48 \div 6 \text{ Guide}$$

$$\Rightarrow 119 - [8 - 7(5 \times 12 \div 3 - 20)]/24 \div 3 - 9 \text{ of } 3 + 48 \div 6$$

$$\Rightarrow 119 - [8 - 7(5 \times 4 - 20)]/24 \div 3 - 9 \text{ of } 3 + 48 \div 6$$

$$\Rightarrow 119 - [8 - 7(20 - 20)]/24 \div 3 - 27 + 48 \div 6$$

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 $\therefore$  The required value is -111/11





#### 56. Answer: a

## **Explanation:**

Given:

A wire is in the form of a square of side = 33 cm

#### Formula used:

Circumference of the circle =  $2\pi r$ 

Perimeter of the square =  $4 \times side$ 

#### Calculation:

According to the question

The wire has the same length

So,

Circumference of the circle = Perimeter of the square

```
\Rightarrow (2 \times 22/7 \times r) = 4 \times 33 From Exams Guide

\Rightarrow 44r/7 = 132

\Rightarrow r/7 = 3

\Rightarrow r = (7 \times 3) \text{ cm}

\Rightarrow r = 21 \text{ cm}
```

 $\therefore$  The radius of the circle is 21 cm

#### 57. Answer: b







## **Explanation**:

Given:

Volume of cube = 10 cm

Radius of the sphere = 4.2 cm

Formula used:

Volume of the cube =  $a^{3}$ 

Volume of the sphere =  $4/3\pi r^3$ 

Calculation:

According to the question

Volume of wood left = Volume of cube - Volume of sphere

$$\Rightarrow$$
 (10) <sup>3</sup>- 4/3 × 22/7 × (4.2) <sup>3</sup>

⇒ 1000 - 310.464 Personal Exams Guide

```
\Rightarrow 689.536 cm <sup>3</sup>
```

 $\therefore$  The wood is wasted in the process is 689.536 cm  $^3$ 

## 58. Answer: b

## **Explanation:**

Given:

The product of two positive numbers = 1344





The ratio of the two numbers = 7 : 12

#### Calculation:

Let the ratio of the numbers be 7x and 12x respectively

According to the question

```
\Rightarrow (12x \times 7x) = 1344

\Rightarrow 84x^{2} = 1344

\Rightarrow x^{2} = (1344/84)

\Rightarrow x^{2} = 16

\Rightarrow x = 4

Now,

The smaller number = 7x = (7 \times 4)

\Rightarrow 28
```

 $\therefore$  The required number is 28

## our Personal Exams Guide

## 59. Answer: a

## **Explanation:**

Given:

Two dealers offer an item at the same marked price = Rs. 3000

The first dealer allows successive discounts = 10% and 15%

The other dealer allows successive discounts = 20% and 5%

Formula used:

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Successive discount = [x + y - (xy/100)]

#### Calculation:

The first dealer allows successive discounts = 10% and 15%

⇒ 
$$[10 + 15 - (10 \times 15/100)]$$
  
⇒  $(25 - 3/2)$   
⇒  $(50 - 3)/2$   
⇒  $47/2$   
⇒  $23.5\%$   
The other dealer allows successive discounts = 20% and 5%  
⇒  $[20 + 5 - (20 \times 5)/100]$   
⇒  $(25 - 1)$ 

```
⇒ 24%
```

The difference in the selling price of the item under the two offers = Rs.  $[3000 \times (24 - 23.5)/100]$ 

```
⇒ Rs. (3000 × 0.5/100) Sonal Exams Guide
```

```
\Rightarrow Rs. (30 × 0.5)
```

```
⇒ Rs. 15
```

 $\therefore$  The required difference is Rs. 15

#### 60. Answer: c

#### **Explanation**:

Given:

prepp





Distance = 189 km

The ratio of the speed of car and bus = 3:2

#### Concept used:

When the distance is constant, then speed is inversely proportional to time

Formula used:

```
Speed = Distance/Time
```

#### **Calculation:**

The ratio of speed of car and bus be 3x and 2x respectively

When the distance is constant, then speed is inversely proportional to time

So,

The ratio of time of car and bus be 2x and 3x respectively

Now,

The difference between the time of bus and car = (3x - 2x) = 1x

## According to the question sonal Exams Guide

Total time taken by car = (60 min + 30 min) = 90 min

 $\Rightarrow (90/60) = 3/2 \text{ hr}$ 

Time taken by bus =  $(3 \times 3/2) = 9/2 = 4.5$  hr

Now,

Speed = 189/4.5

 $\Rightarrow$  42 km/h

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 $\therefore$  The speed of the bus is 42 km/h





#### 61. Answer: b

### **Explanation:**

Given:

Cost price of a fabric dress = Rs. 800

She spent on embroidery and stitching = Rs. 350

Profit = 20%

Calculation:

Total cost price of fabric dress = Rs.(800 + 350) = Rs.1,150

Profit = 20%

According to the question

```
Selling price of the dress = Rs. (1,150 \times 120/100)
```

```
⇒ Rs. (138,000/100)
```

⇒ Rs. 1,380

 $\therefore$  The selling price of the dress is Rs. 1,380

#### 62. Answer: a

## **Explanation:**

Given:

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The difference of an age of the eldest and youngest members = 82 years

The average age of remaining 14 persons = 28







The average age of the entire family = 30

#### Formula used:

Average = sum of observations/Number of observations

Calculation:

Let the age of eldest and youngest be x and y respectively

The difference of an age of the eldest and youngest members = 82 years

$$\Rightarrow$$
 (x - y) = 82 ....(1)

Now,

```
The average age of remaining 14 persons = (14 \times 28) = 392
```

```
The average age of the entire family = (16 \times 30) = 480
```

```
The age of the eldest and youngest family = (480 - 392) = 88
```

So,

$$(x + y) = 88 \dots (2)$$

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Adding equation (1) and (2), we get

$$\Rightarrow$$
 (x - y) = 82 + (x + y) = 88

$$\Rightarrow 2x = (88 + 82)$$

- $\Rightarrow 2x = 170$
- ⇒ x = 85 years

 $\therefore$  The age of the eldest person is 85 years

#### 63. Answer: b

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## **Explanation:**

#### Given:

11, 8, 9, (2 k - 1), 11, 12, 12, 18, 14, 16

#### Calculation:

According to the question

The mode of the following data = 11

 $\Rightarrow 2k - 1 = 11$ 

 $\Rightarrow 2k = 12$ 

⇒ k = 6

∴ The value of k is 6

## 64. Answer: d

## **Explanation**:

Given:

The average of 9 numbers = 19

The average of the first four numbers = 14

Formula used:

Average = sum of observations/Number of observations

Calculation:

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The average of 9 numbers =  $(19 \times 9) = 171$ 

The average of the first four numbers  $= (4 \times 14) = 56$ 





Now,

The average of last 5 numbers = (171 - 56)/5

⇒ 115/5

⇒ 23

 $\therefore$  The required average is 23

#### 65. Answer: c

## **Explanation:**

Given:

Difference of two numbers = 10

LCM = 120

HCF = 10

Concept used:

**HCF** - The greatest common divisor of two or more positive integers happens to be the largest positive integer that divides the numbers without leaving a remainder.

**LCM -** The least common multiple or lowest common multiple or smallest common multiple of two integers a and b, usually denoted by LCM (a, b) is the smallest positive integer that is divisible by both a and b.

**Co-prime -** Two numbers are co-prime if they have no common factor other than 1.

#### Calculation:

HCF = 10

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Let the two numbers be 10a and 10b, where a and b are co-primes

LCM of two numbers = 10







 $\Rightarrow$  10a × 10b = LCM × HCF  $\Rightarrow$  100ab = 120 × 10  $\Rightarrow$  100ab = 1200  $\Rightarrow$  ab = 12 So, Possible pairs of a and b could be (3,4)So, the numbers are (30, 40)Now, The sum of the number = (30 + 40)⇒ 70

 $\therefore$  The required sum is 70

#### 66. Answer: c

## **Explanation**:

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Concept Used:

Follow the BODMAS rule according to the table given below:

| В | Brackets in order (), [], [] | ब्रैकेट (), (), () क्रम 'में |
|---|------------------------------|------------------------------|
| Q | of                           | का                           |
| D | Division (+)                 | विभाजन (=)                   |
| M | Multiplication (%)           | मुणा (×)                     |
| Ą | Addition (+)                 | जोड़ (+)                     |
| s | Subtraction (-)              | অচার (–)                     |





Calculation:

$$(16\frac{2}{3} \div 10) - [(\frac{8}{3} \times \frac{5}{4}) of \frac{2}{5} + \frac{16}{3} \times \frac{11}{8} - (\frac{1}{4} \div \frac{1}{28})] 
\Rightarrow (50/3 \div 10) - [(8/3 \times 5/4) of 2/5 + 16/3 \times 11/8 - (1/4 \div 1/28)] 
\Rightarrow (50/3 \times 1/10) - [(8/3 \times 5/4) of 2/5 + 16/3 \times 11/8 - (1/4 \div 1/28)] 
\Rightarrow 5/3 - [(8/3 \times 5/4) of 2/5 + 16/3 \times 11/8 - (1/4 \div 1/28)] 
\Rightarrow 5/3 - [10/3 of 2/5 + 16/3 \times 11/8 - (1/4 \div 1/28)] 
\Rightarrow 5/3 - [10/3 of 2/5 + 16/3 \times 11/8 - (1/4 \times 28)] 
\Rightarrow 5/3 - [10/3 of 2/5 + 16/3 \times 11/8 - 7] 
\Rightarrow 5/3 - [10/3 \times 2/5 + 16/3 \times 11/8 - 7] 
\Rightarrow 5/3 - [4/3 + 16/3 \times 11/8 - 7] 
\Rightarrow 5/3 - (4/3 + 22/3 - 7) 
\Rightarrow 5/3 - (4 + 22 - 21)/3 
\Rightarrow 5/3 - (26 - 21)/3 
\Rightarrow 5/3 - 5/3 Personal Exams Guide 
\Rightarrow 0$$

 $\therefore$  The required value is 0

## 67. Answer: b

## **Explanation:**

Calculation:

The combined production of company A and company B in 1996 = (24 + 22) = 46







The production of C in 1996 = 40

The percentage in  $1996 = (46 \times 81.94)/100$ 

⇒ 3769.24/100

⇒ 37.69

It is not equal to the production of C

Now,

The combined production of company A and company B in 1997 = (29 + 23) = 52

```
The production of C in 1997 = 62
```

The percentage in  $1997 = (52 \times 81.94)/100$ 

⇒ 4260.88/100

⇒ 42.60

It is not equal to the production of C

Now,

The combined production of company A and company B in 1998 = (34 + 38) = 72

```
The production of C in 1998 = 59
```

The percentage in  $1998 = (72 \times 81.94)/100$ 

⇒ 5899.68/100

⇒ 58.99 ~ 59

It is equal to the production of C

Now,

The combined production of company A and company B in 1999 = (57 + 49) = 106

The production of C in 1999 = 51



The percentage in  $1999 = (106 \times 81.94)/100$ 

⇒ 8685.64/100

```
⇒ 86.85
```

It is not equal to the production of C

Now,

```
The combined production of company A and company B in 2000 = (45 + 55) = 100
```

```
The production of C in 2000 = 52
```

The percentage in  $2000 = (100 \times 81.94)/100$ 

⇒ 8194/100

⇒ 81.9<mark>4</mark>

It is not equal to the production of C

∴ The production of company C is 81.94% (correct to 2 decimal places) of the combined production of company A and company B in the year 1998

## 68. Answer: d'Ul Personal Exams Guide

## **Explanation:**

Given:

Mixture of juice and water = 50 litre

The ratio of juice and water = 3:2

A 60 litre juice and water mixture is added, that has a juice to water ratio of 2:1

After this, 11 litres of the solution is replaced with pure juice

Calculation:

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The juice in the mixture =  $(3/5 \times 50) = 30$  litre

The water in the mixture =  $(2/5 \times 50) = 20$  litre

Now,

A 60 litre juice and water mixture is added, that has a juice to water ratio of 2:1

```
The juice in the mixture = (2/3 \times 60) = 40
```

```
The water in the mixture = (1/3 \times 60) = 20
```

Now,

Total mixture of juice = (30 + 40) = 70 litre

Total mixture of water = (20 + 20) = 40 litre

The ratio of juice and water = (70:40)

⇒7:4

Now,

The ratio of juice = (70 - 7) = 63 litre

# The ratio of water = (40 - 4) = 36 litre Exams Guide

Now,

11 litres of the solution is replaced with pure juice

⇒ (63 + 11) : 36

⇒74:36

```
⇒ 37 : 18
```

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The ratio of water to juice in the final mixture = 18 : 37

```
\therefore The required ratio is 18 : 37
```




## 69. Answer: b

## **Explanation:**

#### Given:

The cost of leveling a square field at the rate of  $\neq$  52/m<sup>2</sup> = Rs. 1,30,000

#### Formula used:

Area of square = (side)  $^2$ 

Perimeter of the square =  $4 \times side$ 

#### Calculation:

Area of the square field leveled = (1,30,000/52)

⇒ 2500

```
(Side)^2 = 2500 \text{ m}^2
```

⇒ side = 50 m

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Perimeter of the square =  $(4 \times 50) = 200$  m

Now,

The cost of fencing its boundary at the rate of ₹35/m = Rs. (200 × 35)

⇒ Rs. 7,000

 $\therefore$  The required cost is Rs. 7,000

#### 70. Answer: c





## **Explanation:**

## Given:

The ratio of Physics Chemistry and Biology = 7:5:8

Increased percent in Physics = 50%

Increased percent in Chemistry = 40%

Increased percent in Biology = 25%

## Formula used:

Increased value = Original value × (1 + increased%/100)

## Calculation:

Let the seats in Physics, Chemistry and Biology be 7x, 5x and 8x respectively.

Number of seats in Physics after increment =  $(7x \times 150/100)$ 

$$\Rightarrow 21x/2$$

Number of seats in Chemistry after increment = (5x × 140/100)

$$\Rightarrow (5x \times 7/5)$$

Number of seats in Biology after increment =  $(8x \times 125/100)$ 

$$\Rightarrow$$
 (8x × 5/4)

Increased ratio = (21x/2:7x:10x)

 $\Rightarrow$  21x : 14x : 20x

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- ⇒ 21 : 14 : 20
- $\therefore$  The required ratio is 21 : 14 : 20

## 71. Answer: c

## **Explanation:**

#### **Calculation:**

The families who showed interest for visiting Jaipur = 15%

Now,

The central angle for the families who showed interest for visiting Jaipur =  $(15/100 \times 360)$ 

- ⇒ (5400/100)
- ⇒ 54°
- ∴ The required angle is 54°

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## 72. Answer: b

## **Explanation:**

Given:

Ankit invests some money at 9% simple interest for 2 years

The same sum for 4 years at 10% per annum

He earns = Rs. 1740

Formula used:

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 $SI = (P \times R \times T)/100$ Calculation: Let the principal be P According to the question The first SI =  $(P \times 9 \times 2)/100$ ⇒ 18P/100 The second SI =  $(P \times 4 \times 10)/100$ ⇒ 40P/100 The sum = (18P/100 + 40P/100)⇒ 58P/100 Now, The sum invested in each case ⇒ 58P/100 = 1740  $\Rightarrow P/100 = 30$ ⇒ P = Rs. 3000  $\therefore$  The required sum is Rs. 3000

## 73. Answer: c

## **Explanation:**

Given:

prepp

A is 30% more efficient than B





Time taken by B to finish the work = 13 days

#### Concept used:

Efficiency is inversely proportional to the time when the work done is constant.

#### Calculation:

Ratio of efficiency of A and B = 130 : 100

Efficiency is inversely proportional to the time when the work done is constant.

 $\Rightarrow$  Ratio of time taken by A and B = 10 : 13

Let A takes x days to do the same job

- ⇒ 10 : 13 : : x : 13
- $\Rightarrow 10/13 : : x/13$
- $\Rightarrow x = (10/13 \times 13)$

 $\Rightarrow$  x = 10 days

 $\therefore$  The time taken by A to finish the job is 10 days

## 74. Answer: a

## **Explanation**:

Given:

prepp

Length of the paper = 32 cm

Breadth of the paper = 20 cm

He leaves a margin on all the sides = 2 cm





#### Formula used:

Area of paper = length × breadth

#### Calculation:



According to the question Sond Excims Guide

He leaves a margin of 2 cm each on all the sides

Length of area of the typing = (32 - 2 - 2) = 28 cm

Breadth of area of typing = (20 - 2 - 2) = 16

Area of the typing, when margin leaves  $2 \text{ cm} = (28 \times 16) \text{ cm}^2$ 

 $\Rightarrow$  448 cm<sup>2</sup>

Now,

prepp

If he leaves a margin of 1 cm only on all the sides



```
Length of area of typing = (32 - 1 - 1) = 30 cm

Breadth of the area of typing = (20 - 1 - 1) = 18 cm

Area of the typing, when margin leaves 1 cm = (30 \times 18) cm<sup>2</sup>

\Rightarrow 540 cm<sup>2</sup>

Now,

Percentage increase = [(540 - 448)/448 \times 100]

\Rightarrow (92/448 \times 100)

\Rightarrow (9200/448)

\Rightarrow 20.54\%
```

... The required percentage increase is 20.54%

## 75. Answer: b

## **Explanation**:

## Given: Your Personal Exams Guide

Amit covers a certain distance on his bike at a speed of 40 km/h in 15 min.

Formula used:

Distance = Speed × Time

#### Calculation:

According to the question

The distance will be =  $(40 \times 15)/60 = 10$  km

Now,

prepp



Time = 12 min = 12/60 = 1/5 hours

Now to calculate the speed of the bike

- $\Rightarrow 10/(1/5)$
- $\Rightarrow$  50 km/h
- $\therefore$  The required speed is 50 km/h

## 76. Answer: a

## **Explanation:**

The correct answer is **Portuguese**.

## 🛨 <u>Key Points</u>

- In 1503, Portuguese viceroy Afonso de Albuquerque built the first European fort in India, Fort Emmanuel .
- In **1500**, the Portuguese navigator **Pedro Alvares Cabral** established the **first European settlement in India in Kochi**.
- In **1502, Vasco da Gama**, the discoverer of the sea route to India (**1498**), founded the **first Portuguese workshop** (trading station) there.
- Kochi remained a Portuguese property until 1663 when it was seized by the Dutch.

#### 🛧 Additional Information

- <u>Dutch</u>
  - The Dutch Republic's first settlement in India, Fort Geldria or Fort Geldaria, was located in Pulicat, Tamil Nadu, and served as the capital of Dutch Coromandel.
  - The Dutch East India Company built it in 1613, and it became the local administrative centre in 1616.
  - In the year 1605, the Dutch established their first factory in Masaulipatam, Andhra Pradesh.







- <u>British</u>
  - Fort St. George was the first fortress in India, built by the British East India Company in 1640 . It was founded in 1644.
  - It is home to the well-known St Mary's Church (an ancient Anglican church), a museum (which includes antics and artifacts from British rule), and Wellesley House (paintings of the Fort Governer.)
- French
  - Fort Louis , also known as Fort Saint Louis , was a French fort located at Pondicherry on India's eastern coast.
  - The fort was built around **1701 by François Martin** and completed posthumously around **1706.**
  - A canal separated the native and European settlements.

## 77. Answer: b

## **Explanation:**

The correct answer is **<u>Sikkim</u>**.

## 🛨 <u>Key Points</u>

- Sikkim became the first totally organic state in 2016, with the goal of protecting the environment, its delicate ecosystem, and rich biodiversity, as well as offering a healthier lifestyle for its residents.
- The declaration was the culmination of a process that started in 2003, the year when it stopped imports of chemical fertilizers into the State.
- The state won the prestigious Future Policy Gold Award from the UN Food and Agriculture (FAO), after beating 51 nominations from around the world. Sikkim Chief Minister Pawan Kumar Chamling received the coveted award.

## 🛧 Additional Information

repp

• Organic farming is a type of agriculture that uses **pesticides made from** organic manure and animal or plant waste . Chemical pesticides and synthetic fertilizers were causing environmental harm, thus this farming began as a response.





- Sikkim
  - It is part of the Eastern Himalayas, is known for its biodiversity, which includes alpine and subtropical climates, as well as being home to Kangchenjunga, India's highest peak and the world's third-highest peak.
  - Gangtok is the capital and largest city in Sikkim.
  - Sikkim Chief Minister Pawan KumarChamling's 24.4 years stint (December 1994 to May 2019) is the longest ever term by a chief minister of any Indian state, surpassing Jyoti Basu's 23 years in West Bengal.
  - Cardamom and ginger are the cash crops of Sikkim.
  - Sikkim is the second-largest cardamom producer state in India after Kerala.
  - The **highest lakes** in India are **Gurudrongmar Lake** and **Cho Lhamo Lake** , both in Sikkim.
  - Sikkim, which makes up 0.5 percent of India's landmass, has 84 glaciers, the largest number compared to any other state or union territory.
  - Only after Darjeeling, West Bengal, Sikkim has the Highest number of Gurkhas residing in the state and probably in the world.
  - Dalle Khorsani , from Sikkim, is known to be one of the world's hottest chilies.
  - Current Chief Minister Prem Singh Tamang
  - Governor Ganga Prasad

## our Personal Exams Guide

## 78. Answer: d

## **Explanation:**

The correct answer is South Central Asia.

## 🔶 <u>Key Points</u>

repp

- South-Central Asia has the **highest population density** in the world, followed by **East and South-East Asia**.
- South Asia has a **population** of about **1.891 billion people**, or roughly **one-fourth of the world's population**, making it the world's most populous and densely populated geographical region.

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• **The reason** is people prefer to live on plains more than mountains or plateaus and they live more in moderate climates than extreme hot or cold. From the **agricultural** point of view, **fertile lands** are preferred. **Areas with mineral deposits** are more populated.

### 🛧 Additional Information

- **Population density** refers to the number of people living in a unit area of the earth's surface.
- **Data on population density** can be used to **calculate** demographics and examine interactions with ecosystems, human health, and infrastructure.
- According to the 2011 census, the density of population in India is 382 persons per sq km.
- Delhi (11,320) turns out to be the most densely inhabited followed by Chandigarh (9,258), among all States/UTs, both in the 2001 and 2011 Census.

## 79. Answer: d

## **Explanation**:

The correct answer is Cornea.

## \* Key Points IF Personal Exams Guide

- Cornea
  - The cornea is the **front part of the eye bulging outwards**.
  - It is made up of a **transparent substance**.
  - It is **uniformly thick**.
  - The outer surface of the cornea is convex in shape.
  - Because of this shape, when the light rays coming from an object enter the eye through the cornea, it just **bends or refracts.**
  - It covers the pupil (the opening at the center of the eye), iris (the colored part of the eye), and the anterior chamber of the eye (the fluid-filled inside of the eye).

🛨 Additional Information







- Retina
  - The **retina** contains the cells that **sense light (photoreceptors)** and the **blood vessels** that nourish them.
  - The macula, a small section of the retina with millions of closely packed photoreceptors, is the most sensitive component of the retina.
- Pupil
  - Light travels through the pupil after passing through the cornea.
  - It is the **black dot** in the middle of the eye.
  - The pupil of the eye is a **gateway that allows and regulates light** to reach the retina. This is part of the process which allows us to **perceive images**.
- Iris
  - The amount of light that enters the eye is controlled by the iris
  - It is a circular, colourful region of the eye that surrounds the pupil.
  - When the environment is dark, the iris allows more light into the eye ( enlarging or dilating the pupil), and when the environment is bright, the iris allows less light into the eye (shrinking or constricting the pupil).







## 80. Answer: d

## **Explanation**:

The correct answer is **Chennai**.

## 🛨 Key Points

- UNESCO Creative Cities Network
  - The UNESCO Creative Cities Network is a UNESCO project that began in 2004 with the goal of promoting cooperation among cities that consider creativity a critical component of their urban development.
  - The 246 cities that now make up this network are working toward a shared goal : putting creativity and culture industries at the centre of their local development strategies while also engaging actively on a global scale.
- As of November 2019, there are five Indian cities in UNESCO Creative Cities Network (UCCN) as follows:
  - Jaipur Crafts and Folk Arts(2015).
  - Varanasi Creative city of Music (2015).
  - Chennai Creative city of Music(2017).
  - **Mumbai –** Film (2019).
  - Hyderabad Gastronomy (2019). CMS GUICE
  - Srinagar Crafts and Folk Art (2021).
- UNESCO: United Nations Educational, Scientific and Cultural Organization.
- UNESCO's Headquarter Paris, France
- UNESCO's Head Audrey Azoulay

## 81. Answer: c

## **Explanation:**

prepp

the correct answer is Nitrogen.





## 🔶 <u>Key Points</u>

- Protein synthesis accounts for a major part of the energy required for plant growth.
  - Amino acids include nitrogen, which is a necessary component. All amino acids carry nitrogen in the amino group bonded to the α-carbon atom. Therefore, the name amino acids. Proteins are biopolymers of amino acids.
  - In the absence of **nitrogen**, protein synthesis is impossible.

#### 🔶 Additional Information

- Calcium
  - Calcium (Ca) is essential for the **formation of plant tissues** and for the **improvement of plant growth**.
  - It is responsible for holding plant cell walls together.
  - It's also important for **activating enzymes** and **sending signals** that **coordinate cellular functions**.
- Sodium
  - Sodium is not an essential element for plants but can be used in small quantities, similar to micronutrients, to aid in the metabolism and synthesis of chlorophyll.
- Chlorine
  - Chlorine is crucial for **plant photosynthesis** as it is involved in the opening and closing of **stomata** (pores in leaves that enable plants to take in and release carbon dioxide, oxygen, and other gases as required).
  - It also helps ensure leaves are firm.

## 82. Answer: c

## **Explanation**:

The correct answer is Karnataka.

🛨 <u>Key Points</u>

Prepp





- Pulakeshin I established the Chalukya dynasty in 543.
- Pulakeshin I took **Vatapi** (modern Badami in **Bagalkot district, Karnataka**) under his control and made it his **capital**.
- " Chalukyas of Badami " is how Pulakeshin I and his descendants are known.
- They ruled over an empire that comprised the entire state of **Karnataka** and **most of Andhra Pradesh** in the **Deccan** .

#### 🛧 Additional Information

- Jayasimha was the first emperor of the Chalukya dynasty of Vatapi (modern Badami).
  - In the **early sixth century**, he governed the region around modern Bijapur and was the **grandfather** of the **dynasty's first sovereign ruler, Pulakeshin I.**
- Pulakesin I, Kirtivarman I, Mangalesha, Pulakesin II, Vikramaditya I, and Kirtivarman II are some of the famous rulers of the Chalukya dynasty.
- The Pallava ruler Narsimhavarman 'Mammala' invaded the Chalukyan kingdom, killed Pulakesin II, and captured Vatapi. He adopted the title Vatapikonda i.e. the conqueror of Vatapi.
- In 757 AD, Chalukyas were overthrown by their feudatories, the Rashtrakutas .
- Despite being Hindus, the Chalukya kings were tolerant to Buddhism and Jainism.
- The Vesara style of architecture is well represented in the Chalukya temples. This is also called the Deccan style or Karnataka Dravida or Chalukyan style. It is a combination of Dravida and Nagara styles.

#### 83. Answer: c

## **Explanation:**

The correct answer is Ramanathan Krishnan.

## 🛨 <u>Key Points</u>

repp

- Ramanathan Krishnan
  - In **1954, Ramanathan Krishnan beat Ashley Cooper** in the final to become t **he first Asian to win the boys' singles title at Wimbledon.**



- He reached the Wimbledon semi-finals twice in **1960 and 1961** and gained a **career-high ranking of World No. 6**.
- He was born in 1937 in the small village of Tenkasi in Nagercoil, Tamil Nadu.

### 🔶 Additional Information

- Ramesh Krishnan , in 1979 , won the junior Wimbledon title by defeating David Siegler in the final 6-0 6-2.
  - He is from **Madras**.
- Anand Amritraj, along with his younger brothers Vijay and Ashok, were among the first Indians to compete on the international tennis tour.
  - Anand and Vijay were semifinalists in the men's doubles at Wimbledon in 1976.







| INDIAN WINNERS<br>AT WIMBLEDON |                               |                              |   |  |
|--------------------------------|-------------------------------|------------------------------|---|--|
| 1                              | <b>RAMANATHAN</b><br>KRISHNAN | 1954                         | BOY'S SINGLE                            |  |
| 2                              | <b>RAMESH</b><br>KRISHNAN     | 1979                         | BOY'S SINGLE                            |  |
| 3                              | LEANDER<br>PAES 1999, 200     | 1990<br>1999<br>3,2010, 2015 | BOY'S SINGLE<br>DOUBLES<br>MIXED DOUBLS |  |
| 4                              | MAHESH<br>BHUPATHI            | 1999<br>2002,2005            | DOUBLES<br>MIXED DOUBLS                 |  |
| 5                              | SANIA<br>MIRZA                | 2015<br>EXC 115              | DOUBLES                                 |  |
| 6                              | SUMIT<br>NAGAL                | 2015                         | BOY'S SINGLE                            |  |

## 84. Answer: a

## **Explanation:**

the correct answer is Allicin.

🔶 Key Points

prepp





- Allicin
  - Garlic's unique odour comes from allicin ,an oily, slightly yellow substance.
  - Garlic includes around **33 sulphur compounds**, which are responsible for the Allium species plants' distinctive **smell, taste, and biological features.**
  - Allicin, also known as diallyl thiosulfinate , is the major thiosulfinate component found in onions and wild garlic extracts.
  - Allicin does not exist in garlic until it has been crushed or sliced; injury to the garlic bulb activates the enzyme allinase, which converts alliin to allicin.

## 🔶 Additional Information

- Cellulose
  - Cellulose is a white fibrous substance with no flavor and odor, insoluble in water and organic solvents.
  - It is the main ingredient of plant cell walls. Cellulose chains are arranged in microfibrils or bundles of polysaccharides that are arranged in fibrils (bundles of microfibrils), which in turn make up the plant cell wall.
  - Wood, paper, and cotton all contain cellulose.
- Ethanol
  - Ethanol is an organic chemical compound.
  - $\circ~$  It is simple alcohol with the chem ical formula C\_2H\_6O .
  - Ethanol is a volatile, flammable, colorless liquid with a characteristic wine-like odor and pungent taste.
    - It is used as a **solvent**, in the synthesis of other organic chemicals, and as an **additive to automotive gasoline**.
    - Ethanol is also the **intoxicating ingredient** of many alcoholic beverages such as **beer**, **wine**, **and distilled spirits**.
- Phenol
  - Phenol (also called carbolic acid) is an aromatic organic compound with the molecular formula C<sub>6</sub> H<sub>5</sub> OH.
  - It is a **white crystalline solid** that is volatile.
  - Phenol is used primarily in the production of **phenolic resins** and in the **manufacture of nylon and other synthetic fibers**.
  - It is also used in **slimicides** (chemicals that kill bacteria and fungi in slimes), as a **disinfectant and antiseptic** , and in medicinal preparations

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such as mouthwash and sore throat lozenges.

#### 85. Answer: a

### **Explanation**:

The correct answer is **<u>Telangana</u>**.

## 🛨 <u>Key Points</u>

- Pochampally Ikat sarees
  - It is a saree made in Bhoodan Pochampally, Yadadri Bhuvanagiri district, Telangana State, India.
  - They have traditional geometric patterns in the Ikat style of dyeing.
  - **Air India**, the official airline of the Indian government, has its cabin crew wear specially designed Pochampally silk sarees.
  - Pochampally saree received Intellectual Property Rights Protection or Geographical Indication (GI) status in 2005.

#### 🛧 Additional Information

- Telangana
  - The state is known as India's seed capital and is located at the confluence of the Krishna and Godavari rivers in South India.
    - Telangana has 17 Lok Sabha seats and 119 assembly seats.
    - The present Chief Minister is Kalvakuntla Chandrashekar Rao, who took office on **2 June 2014**.
    - The state already has 15 GI tags in its account.
      - Pochampally Ikat
      - Silver Filigree of Karimnagar
      - Nirmal Toys and Craft
      - Nirmal Furniture
      - Nirmal Paintings
      - Gadwal Sarees
      - Hyderabad Haleem
      - Cheriyal Paintings





- Siddipet Gollabhama
- Narayanpet Handloom Sarees
- Pochampally Ikat (Logo)
- Adilabad Dokra
- Warangal Durries
- Telia Rumal
- Tamilnadu
  - Kanchipuram , in the Tamil Nadu state, is well-known for its silk sarees.
  - Many people refer to these silk sarees as Kanjivaram.
  - Kanjivaram sarees are known for their **gorgeous motifs** created by handwoven **golden zari work**.
- Karnataka
  - The fineness, sheen, and beauty of Mysore silk are legendary.
  - Karnataka Silk Industries Corporation Ltd (KSIC), which holds the patent for its manufacture, is the only company that produces Mysore silk and saree.
  - Maharaja Nalvadi Krishnaraja Wadiyar created the Mysore silk factory in 1912.
- Kerala
  - **Kerala sarees**, better known as **Kasavu sarees**, are symbolic of Kerala's tradition and culture.
  - The **white and gold sarees** are unique due to their natural hues, texture, and **gold border** which adds to their elegance.

#### 86. Answer: a

#### **Explanation:**

The correct answer is **Boat Racing.** 

🔶 Key Points

prepp

- Vallam kali
  - It is a Kerala-based traditional boat race. It is a type of canoe racing in which paddled war canoes are used.

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- It is primarily held in the springtime during the Onam harvest festival.
- The Nehru Trophy Boat Race is a prominent Vallam kali event held annually at Alappuzha, Kerala, India , in the Punnamada Lake (Vembanad, also known as Punnamada is the longest lake in India, as well as the largest lake in the state of Kerala).
- The winning boat at the Nehru Trophy takes home ₹5 lakh.
- The main event is the **Chundan Vallam race** (a snake boat' that is roughly **30-35 metres** (100-120 ft) **long** and has **64 or 128 paddlers** onboard).
- As a result, the **snake boat race** is also known as **Vallam Kali** and is a popular **tourist attraction**.

#### 🛧 Additional Information

- Haryana is known as a traditional powerhouse in sports like kho-kho, judo, kabaddi, boxing, and wrestling .
- List of a few well known traditional games of the Indian states:
  - Regional Indian martial arts
    - Lathi khela from Bengal
    - Huyen langlon from Manipur
    - Kalari from Kerala
    - Gatka from Panjab region
    - Silambam from Tamil Nadu.

#### 87. Answer: a

## **Explanation:**

The correct answer is Mewati.

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## 🛨 <u>Key Points</u>

- Ratvai dance is well-known in the Mewat region of the state.
- During the **rainy season**, men and women perform this dance together.

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- This dance is popular at Nuh and Firozpur Zirka of the Gurgaon region .
- Meo, also called Mewati, is an ethnic group from the Mewat region of northwestern India which includes the Nuh district (previously Mewat) in Haryana







and parts of adjacent Alwar district and Bharatpur district in Rajasthan.

• Meo's are Muslim and speak the Indo-Aryan Mewati language.

## 🛨 Additional Information

- Khasi Tribe
  - The Khasi are an ethnic group from Meghalaya in north-eastern India, with a sizable population in the neighbouring state of Assam and parts of Bangladesh.
  - **"Ka Pamblang Nongkrem**" is the most important dance of the "Khasis". It is celebrated in the **autumn season** and is essentially a **thanksgiving to God**.
  - The Khasis are known for their ability to weave cane mats, stools, and baskets. They create a particular type of cane mat known as 'Tlieng,' which has a useful life of about 20-30 years.
  - Under the Constitution of India, the Khasis have been granted the status of **Scheduled Tribe** .
- Jatapus
  - In the Indian states of **Andhra Pradesh and Odisha**, the **Jatapu people** are classified as a **scheduled tribe**.
  - The Adivasi tribe Jatapus are pastoral farmers by heritage. As a result of their acculturation, the Jatapus speak Telugu and have absorbed the Telugu culture in many respects.
  - They observe "Kandi Padaga" as a significant holiday and worship
     "Godlamma Devatha (Goddess)" during the one-week-long celebration, which includes animal sacrifice.
    - During the event, the **women** perform **the "Dimsa Dance."**

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- Bhil Tribe
  - The Bhil are tribal people who live in the states of Chhattisgarh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Andhra Pradesh, and Rajasthan.
  - The Bhil are recognized for being **skilled archers** with a thorough understanding of their surroundings.
  - Traditionally, guerilla warfare professionals , most of them are now farmers and agricultural labourers. They're also accomplished sculptors.
  - **Ghoomar** is a traditional folk dance of the Bhil tribe performed to **worship Goddess Sarasvati** which was later embraced by other Rajasthani

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communities.

### 88. Answer: d

## **Explanation:**

The correct answer is **Tripura**.

🛨 Key Points

• Tripura's famous cuisines include Muya Awandru, Mui Borok, and Chakhwi.











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| <u>STATE</u>      | TRADITIONAL FOOD             |  |
|-------------------|------------------------------|--|
| Uttarakhand       | Kafuli                       |  |
| Himachal Pradesh  | Dhaam                        |  |
| West Bengal       | Aloo Posto                   |  |
| Rajasthan         | Daal-Baati-Churma            |  |
| Karnataka         | Bisi Bele Bath               |  |
| Goa               | Feni, Balchão and Sorpotel   |  |
| Jammu And Kashmir | Yakhni, Kahwa chai           |  |
| Bihar             | Litti Chokha                 |  |
| Meghalaya         | Jadoh                        |  |
| Rajasthan         | Dal Baati Churma             |  |
| Andhra Pradesh    | Pulihora, Gutti vankaya kura |  |





| Madhya Pradesh | Bhuttey Ke Kees, Daal Bafla  |  |  |
|----------------|--|--|--|
| Odisha         | Kora Kha, Chenna poda, Pakhala Bhata   |  |  |
| Tripura        | Muya Awandru, Mui Borok and Chakhwi  |  |  |
| Assam          | Khaar  |  |  |
| Maharashtra    | Vada pav , Pav Bhajji , Puran Poli and Misal pav   |  |  |
| Haryana        | Bajra Khichdi  |  |  |
| Punjab         | Sarso ka Saag and Makki di Roti  |  |  |
| Kerala         | Sadya<br>Prsonal Exams Guide   |  |  |
| Gujarat        | Undhiyu, Dhokla, Khaman, Muthia, Thepla' and Khandvi   |  |  |
| Manipur        | Chamthong or Kangshoi , Eromba ,<br>Morok Metpa , Singju , Paaknam , Chak-hao Kheer<br>, Alu Kangmet and Nga-Thongba |  |  |

## 89. Answer: b

## Explanation:

prepp



The correct answer is **Cheque**.

## 🛨 Key Points

#### • Cheque

- A cheque is a bill of exchange in which one party instructs the bank to transfer funds to another party's bank account. It's a negotiable instrument protected by the 1881 Negotiable Instruments Act.
- There are **three parties** involved in the transaction The **drawer** is the person who writes the cheque, the **drawee** is the bank that has to transfer the funds, and the **payee** is the person whose name is on the cheque.
- A cheque can be **issued** against a **savings account or a current account**.
- A cheque is drawn from a particular bank and is always **payable on** demand.
- A cheque is **valid for three months** from the date of issuing (the date is indicated on the top right-hand corner of the cheque).
- There are two main types of cheques -
  - Bearer Cheque is a type of cheque in which the bearer can encash the sum on presentation of the cheque before the authorized bank.
  - Order Cheque is a type of cheque in which only the payee, whose name has been written on the cheque, can encash over the counter.

## 🛧 Additional Information

- Passbook
  - A passbook, sometimes known as a **bankbook**, is a paper book used to **record bank or building society transactions** on a **deposit account**.
  - These were traditionally used for accounts with **minimal transaction volumes** , such as **savings accounts**.
- Currency
  - Currency is a kind of payment that can be used to buy and sell products and services. In a nutshell, it's money, usually in the form of paper or coins, issued by a government and widely accepted as a means of payment at face value.
  - There are 180 currencies recognized as legal tender in United Nations (UN) member states ,UN observer states , partially recognized or







unrecognized states, and their dependencies.

#### 90. Answer: a

### **Explanation**:

The correct answer is **Radha Krishna Mathur.** 

## 🛨 <u>Key Points</u>

- Radha Krishna Mathur
  - He is a **Tripura cadre Indian Administrative Service** (IAS) officer from the **1977 batch**.
  - In November 2018, he stepped down as India's Chief Information Commissioner (CIC).
  - He has served as the Union Defence Secretary, India's Secretary for Micro, Small, and Medium Enterprises, and the Chief Secretary of Tripura .
  - RK Mathur has also served in the Central government as the Development Commissioner in the Ministry of Textiles and the Chief Enforcement Officer in the Ministry of Textiles.

#### 🛧 Additional Information

- Dineshwar Sharma
  - Dineshwar Sharma (23 March 1954 4 December 2020) was an Indian police officer.
  - He was the **chief of the Indian Intelligence Bureau** (succeeded by Rajiv Jain ), that is the Director of Intelligence Bureau which is the highestranked post in the Indian Police Service (IPS).
  - He was also an **interlocutor** for the Indian government in the state of **Jammu & Kashmir.**
  - From 2019 till his death , he served as the 34th Administrator of Lakshadweep.
- Anil Baijal
  - Anil Baijal is the 21st Lieutenant Governor of Delhi and is a retired Central Government Civil Servant of the Indian Administrative Service cadre







- He took over office on 31 December 2016 after the sudden resignation of Najeeb Jung.
- Vinai Kumar Saxena has been appointed new Lieutenant Governor of Delhi.
- Girish Chandra Murmu
  - He is India's 14th Comptroller and Auditor General , as well as the Inter-Parliamentary Union's external auditor .
  - He is also the chairman of the Asian Organization of Supreme Audit
     Institutions and the United Nations Panel of External Auditors.

#### 91. Answer: d

## **Explanation:**

The correct answer is difference.

## 🛨 <u>Key Points</u>

prepp

- The net force acting on an object is the combination of all of the individual forces acting on it.
- If two forces act on an object in opposite directions, the net force is the difference between the two forces. In this case, the net force is always greater than or equal to zero but less than either of the individual forces.
- If two forces act on an object in the same direction, the net force is the sum of the two forces. In this case, the net force is always greater than either of the individual forces.
- Balanced forces acting on an object will not change the object's motion.







## 92. Answer: b

#### **Explanation**:

The correct answer is **₹ 15 lakh.** 

## \* Key Points I' Personal Exams Guide

- The Pradhan Mantri Vaya Vandana Yojana (PMVVY):
  - It is a Government of India-sponsored pension scheme for senior citizens aged 60 and up, which was available from May 4, 2017, until March 31, 2020. The scheme has been extended through March 31, 2023, for a total of three years beyond March 31, 2020.
  - After three policy years , the scheme gives a loan of up to 75% of the purchase price.
  - The scheme also allows for premature exit for the treatment of any critical/ terminal illness of self or spouse. On such a premature exit, 98% of the Purchase Price shall be refunded.
  - If the **pensioner dies** during the policy term of **10 years**, the benefits of the scheme can be availed by the nominee or the beneficiary.





- The benefits of the scheme are overall applicable to the pensioner, his/her spouse, and dependents.
- Minimum Entry Age : 60 years (completed)
- Maximum Entry Age : No limit
- Policy Term : 10 years
- Investment limit : Rs 15 lakh per senior citizen
- Minimum Pension :
  - Rs. 1,000/- per month
  - Rs. 3,000/- per quarter
  - Rs. 6,000/- per half-year
  - Rs.12,000/- per year
- Maximum Pension :
  - Rs. 9,250/- per month
  - Rs. 27,750/- per quarter
  - Rs. 55,500/- per half-year
  - Rs. 1,11,000/- per year

## 93. Answer: b

## **Explanation:**

The correct answer is <u>Simla Pact.</u> Exams Guide

## 🔶 <u>Key Points</u>

- Simla Pact
  - The Simla Agreement, signed by Prime Minister Indira Gandhi and Pakistani President Zulfikar Ali Bhutto on July 2, 1972, at Shimla , the capital of the Indian state of Himachal Pradesh, was a peace treaty between India and Pakistan.
  - It followed the Indo-Pakistani War of 1971, which began after India intervened in East Pakistan as an ally of Bengali rebels who were fighting against Pakistani state forces in the Bangladesh Liberation War.
  - The treaty's stated **objective** was to "bring an end to the war and confrontation that has previously stained their relations" and to "conceive





the steps to be taken for further **normalization** of India–Pakistan relations, while also laying down the principles that should govern their future interactions.

## 🛧 Additional Information

- Lucknow Pact
  - The Lucknow Pact was a combined conference of the Indian National Congress headed by Maratha leader Bal Gangadhar Tilak and the All-India Muslim League led by Muhammad Ali Jinnah conducted in Lucknow in December 1916 that resulted in an agreement between the two organizations.
  - The two parties agreed to provide **religious minorities** participation in **provincial legislatures** as part of the agreement.
  - The **major achievement** of the Lucknow Pact was that the **moderates and radicals** reunited and they jointly demanded self-rule for India. All the Indians got united and protested against the Britishers for self-rule.
- Agra Summit
  - The Agra Summit was a landmark two-day conference between India and Pakistan that took place between July 14 and 16, 2001.
  - It was held in the hopes of settling long-standing tensions between India and Pakistan.
  - A suggestion was presented at this summit to dramatically reduce nuclear arsenals, as well as other issues such as the Kashmir dispute and cross-border terrorism.
    - The **Agra Treaty** was **never signed** because th **e negotiations broke down** and the process collapsed.

## 🛨 Confusion Points

Don't get confused by the spelling of Shimla. The pact is known as as 'Simla Pact'. It is without the letter 'h'.

## 94. Answer: d

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## **Explanation:**

The correct answer is Kakatiya.

## 🛨 <u>Key Points</u>

- Rani Rudrama Devi (1263-1289 AD) was one of the Kakatiya dynasty's most powerful rulers.
- She was born as Rudramba to King Ganapati Deva, who ruled Warangal, the capital of the Kakatiya kingdom that had swayed over the entire Andhra Pradesh during the 13th century.
  - The **most powerful ruler** of this Kakatiya kingdom was **Ganapatideva,** and he ruled for almost **63 years.**
- The Kakatiya Dynasty ruled over the present-day Telangana region from 1150 to 1323 CE, with Orugallu (later Warangal) as its capital.

## 🔶 Additional Information

- Pandya dynasty
  - The Pandya dynasty, commonly known as the Pandyas of Madurai, was an ancient South Indian dynasty that was one of Tamilakam's three main kingdoms, the other two being the Cholas and the Cheras.
  - After defeating the Kalabras in the 6th century AD, a King named
     Kadungon formed the first Pandyan empire.Nedunjeliyan was a powerful ruler of the Pandya Dynasty. He won a battle against the northern Aryan army.
- <u>Chola Dynasty</u>
  - The Chola kingdom known as **Cholamandalam** was situated to the northeast of the Pandya Kingdom between the **Pennar** and **Vellar** rivers.
  - The Chola kingdom corresponded to the modern **Tanjore** and **Tiruchirappalli** districts.
  - The earliest known Chola king was Elara who conquered Srilanka and ruled over it for nearly 50 years. Their greatest king was Karikala (man with charred leg) who founded Puhar (Kaveripatnam) and constructed a 160km embankment along the Kaveri river with the help of 12,000 Srilankan slaves.







- Chera Dynasty
  - The Chera dynasty was one of **the most important dynasties** in **Kerala's early history**, as well as areas of **Tamil Nadu** in southern India.
  - The **founder** of the Chera dynasty was **Uthiyan Cheralathan** also called **Udiyangeral.**
  - The greatest of Chera kings, however, was **Senguttuvan** or **Red Chera**. It is said that he invaded the north and even crossed the Ganges.
  - He was also the founder of the **Pattini cult** related to the worship of the Goddess of chastity **Kannagi**.
  - The capital of Cheras was Vanjji.

## 95. Answer: d

## **Explanation:**

The correct answer is 1959.

### 🛨 Key Points

- In March 1959, after years of scattered protests, a full-fledged uprising erupted, forcing the Dalai Lama to leave as the uprising was crushed by Chinese troops.
- He went into **exile in India on March 31, 1959,** residing in **Dharamsala**, where he created a **democratically based shadow Tibetan authority**.
- The **Dalai Lama** is the spiritual leader of **Tibetan Buddhism**, and in the tradition of Bodhisattva, he has spent his life committed to **benefiting humanity**.
- The **14th Dalai Lama**, also known to Tibetans as **Gyalwa Rinpoche**, is the current Dalai Lama, Tibet's top spiritual leader and previous head of state.

## 96. Answer: d

**Explanation:** 







The correct answer is Lignite.

## 🛨 Key Points

- Lignite
  - Lignite coal, often known as **brown coal**, is the **lowest grade of coal** with the **lowest carbon content**.
  - It is mostly employed in **energy generation** due to its **low heating value** and **high moisture content**.
- Bituminous
  - Bituminous coal is a coal that falls in between sub-bituminous and anthracite in terms of rank.
  - Bituminous coal has a **high heating value (Btu)** and is utilized in the United States for **electricity generation and steel production** .
  - When first encountering bituminous coal, it appears blocky and shiny, and smooth, but closer inspection reveals thin, alternating, shiny, and dull layers.
- Anthracite
  - The **highest rank** of coal.
  - It is a hard, brittle, black glossy coal with a high percentage of fixed carbon and a low percentage of volatile matter, sometimes referred to as hard coal.
- Peat Dore
  - Peat is a **precursor** of coal.
  - Peat is a soft, organic substance made up of partially decomposed plant and mineral materials.
  - Peat undergoes physical and chemical changes (coalification) to become coal when it is exposed to **high pressure and heat**.

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## 97. Answer: d

## **Explanation:**

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The correct answer is Ursa Major.



## 🔶 <u>Key Points</u>

- Ursa Major
  - It is the **third-largest constellation in the sky** and the **largest in the northern hemisphere**.
  - Its brightest stars create the **Big Dipper asterism** , also known as the **Plough** , which is one of the most recognizable shapes in the sky.
  - It's also known as **the Saptarshi, the Great Bear, or the Big Dipper.**
  - This constellation has seven notable stars.
  - It has the appearance of a **large ladle or a question mark.** There are **three stars** in the handle of the ladle and **four** in its bowl.

#### 🔶 Additional Information

- A constellation is a collection of stars that form a recognizable shape. Ursa
   Major, Ursa Minor, and Cassiopeia are the three major constellations.
- Cassiopeia
  - Another prominent constellation in the **northern sky** is Cassiopeia.
  - During the winter, it can be seen in the early hours of the night.
  - It resembles a **skewed letter W or M**.
- Orion
  - Orion is another well-known constellation that can be spotted in the late
     evenings throughout the winter.
  - It's one of the sky's most beautiful constellations. GUC C
  - There are also seven or eight brilliant stars on it.
  - The Hunter is another name for Orion. The hunter's belt is represented by the three middle stars. The four brilliant stars appear to be in a quadrilateral formation.
- Ursa Minor
  - Ursa Minor is sometimes called the Little Dipper. This is because its main stars form a shape that looks like a smaller version of the Big Dipper in the constellation Ursa Major.

#### 98. Answer: b







## **Explanation:**

The correct answer is<u>fifth.</u>

## 🛨 <u>Key Points</u>

- As of 2020, India produced about **729 million tonnes of coal** . However, it is a fact that domestic production is not able to meet the demand for coal in the country.
- India imported **247 million tonnes** of coal last year and spent 1.58 lakh crore as foreign exchange.
- Despite India being the world's second-largest coal producer and being the 5th largest country in terms of coal deposits, with coal reserves that may last at least 100 years more, the country is unable to produce adequate quantity of coal to meet the requirement of domestic industry and development.
  - Jharkhand , in northeast India , tops the list of India's coal reserves and output, accounting for more than 26% of the country's total.
  - The majority of the coal deposits in **Jharkhand** are found in a narrow strip that runs east-west, approximately parallel to **24 degrees north latitude**, and dates back to the **Gondwana period**.
- In FY 2020-21, Chhattisgarh registered the highest coal production of 158.409
   MT, followed by Odisha, Madhya Pradesh, and Jharkhand. Jharkhand has the highest coal reserves in India.
- China is the world's largest coal producer by a significant margin. In 2020, China accounted for over 50 percent of coal production worldwide.

#### 🔶 Additional Information

- The majority of Gondwana coal is bituminous or anthracite, with carbon concentrations ranging from 60 to 90%. Before being used in the iron and steel industry, bituminous coal is converted into coke.
- Jharkhand, Orissa, Chhattisgarh, West Bengal, Madhya Pradesh, Andhra Pradesh, Maharashtra, Uttar Pradesh, Bihar, Sikkim, and Assam are among the states possessing Gondwana coal fields, with the number of reserves in the same.




- Talcher coalfield is renowned as India's largest coal reserve and is commonly referred to as the state's "black diamond."
  - The Talcher region is known throughout the country for having the country's greatest resources of high-quality coal.
- The Deucha-Pachami-Dewanganj-Harinsinga coal block is the world's second-biggest coal block and India's largest.

### 99. Answer: a

## **Explanation**:

The correct answer is Verghese Kurien.

### 🛨 <u>Key Points</u>

- The White Revolution is the achievement of Kaira district milk producers and co-operative union which owns and operates the Amul dairy.
- Verghese Kurien is renowned as 'Milkman of India' and the 'Father of the White Revolution' of the 1970s.
- Kurian joined hands with **Tribhuvandas Patel**, **founder of the Kaira dairy farmers' union**, to turn the Kaira dairy movement into a nationwide cooperative called Anand Milk Producers Union Limited (AMPUL), later shortened to Amul.
  - This was accomplished by establishing a **"national milk grid"** that spans more than **700 Indian villages and cities.**
- Kurien has also received accolades such as the Ramon Magsaysay Award and the Wateler Peace Prize and the World Food Prize.
- The Government of India honoured him with the Padma Shri in 1965.

#### 🛧 Additional Information

- Azar lqbal
  - In the field of **Urdu poetry and literature**, Azhar Iqbal is a well-known and respected figure.
  - In 2015, he established the Harfkaar Foundation to promote theatre, dastangoi, poetry, and other arts forms, with a concentration on



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Urdu/Hindi literature.

- Baba Amte
  - Murlidhar Devidas Amte, popularly known as Baba Amte, was an Indian social worker and activist who was most recognised for his work in the rehabilitation and empowerment of leprosy patients.
  - Baba Amte spent his entire life dedicated to serving humanity, and he lived by the motto "Work Builds; Charity Destroys."
  - To help individuals suffering from leprosy, Baba founded Anandwan (Forest of Joy).
- Sunderlal Bahuguna
  - He was an Indian environmentalist and Chipko movement leader who lived from 9 January 1927 to 21 May 2021.
     His wife came up with the idea for the Chipko movement.
  - He fought for the preservation of forests in the Himalayas, first as a member of the Chipko movement in the 1970s, and later spearheaded the anti-Tehri Dam movement from the 1980s to early 2004.
  - Chipko movement, also known as Chipko Andolan , was a nonviolent social and ecological movement in India in the 1970s led by rural villagers , notably women , with the goal of conserving trees and forests threatened by government-sponsored logging.

# 100. Answer: b Ur Personal Exams Guide

# Explanation:

The correct answer is Sania Mirza.

# 🔶 <u>Key Points</u>

- Sania Mirza
  - She is a professional **tennis player** from India.
  - She is a former **world No. 1 in doubles** and has **six Grand Slam titles** to her credit.
  - From **2003** until her retirement from singles in **2013**, she was ranked by the **Women's Tennis Association** as **India's No. 1 player**.



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 Sania Mirza has also been conferred with the Arjuna Award in 2004 ,Padma Shri in 2006, Rajiv Gandhi Khel Ratna (now called the Major Dhyan Chand Khel Ratna Award) in 2015, and the Padma Bhushan in 2016.

## 🛧 Additional Information

- Hima Das
  - Hima Das, also known as **Dhing Express** , is a sprinter from **Assam, India**.
  - She currently owns the Indian national record in the **400 metres** , clocking a time of **50.79 seconds** at the **2018 Asian Games** in J **akarta, Indonesia**.
  - On **September 25, 2018**, the President of India presented her with the **Arjuna Award**.

## • Dutee Chand

- Dutee Chand is a **professional sprinter** from **Odisha**, India who is currently the **national champion in the women's 100 metres** .
- She is the **first Indian woman** to win a **gold medal** in a global **100 m race**.
- At the 2018 Asian Games in Jakarta, Chand won two medals. Chand's silver medal in the women's 100m finals was India's first in the category in 32 years since PT Usha's performance in 1986.
- She is only the third Indian woman to ever qualify for the Summer
  Olympic Games in the Women's 100-meter event.
- **"Fiercely Female: The Dutee Chand Story"** by **Sundeep Mishra** is a book written on Dutee Chand's life.
- Mary Kom

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- Mangte Chungneijang Mary Kom OLY, from Manipur, is an Indian politician, amateur boxer, and incumbent Member of Parliament, Rajya Sabha.
- Asix-time AIBA Women's Boxing Champion , Mary Kom is a renowned athlete and face of women boxing in India.
- Mary Kom was honoured with the **Padma Vibhushan in 2020**, the second-highest civilian award, by **President Ram Nath Kovind.**
- "Unbreakable: An Autobiography" book by Mary Kom.

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