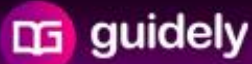


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Mathematics

1. Product of LCM and HCF is 2079 and one number is 27. Find the second number.

- a) 77
- b) 67
- c) 57
- d) 47

Answer: A

Let the second number be x,

$$\text{LCM} \times \text{HCF} = 27 \times x$$

$$2079 = 27 \times x$$

$$x = 2079/27 = 77$$

2. $\cos \theta + \sec \theta = \sqrt{3}$. Find the value of $\cos^3 \theta + \sec^3 \theta$.

- a) 1
- b) 0
- c) 2
- d) 3

Answer: B

$$\cos \theta + \sec \theta = \sqrt{3}$$

On cubing we get,

$$(\cos \theta + \sec \theta)^3 = (\sqrt{3})^3$$

$$\cos^3 \theta + \sec^3 \theta + 3 \cos \theta \times \sec \theta \times (\cos \theta + \sec \theta) = 3\sqrt{3}$$

$$\cos^3 \theta + \sec^3 \theta + 3\sqrt{3} = 3\sqrt{3}$$

$$\cos^3 \theta + \sec^3 \theta = 3\sqrt{3} - 3\sqrt{3}$$

$$\cos^3 \theta + \sec^3 \theta = 0$$

3. Simplify: $\sqrt{75} + \sqrt{147}$.

- a) $10\sqrt{3}$
- b) $11\sqrt{3}$
- c) $12\sqrt{3}$
- d) $13\sqrt{3}$

Answer: C

$$\sqrt{75} + \sqrt{147}$$

$$= \sqrt{3} \times 5 \times 5 + \sqrt{3} \times 7 \times 7$$

$$= 5\sqrt{3} + 7\sqrt{3}$$

$$= 12\sqrt{3}$$

4. Volume of cuboid is 324 m^3 . Ratio of length, breadth and height is 3 : 2 : 2. Find the length of cuboid.

- a) 3 m
- b) 5 m
- c) 6 m
- d) 9 m

Answer: D

$$\text{Volume of cuboid} = 324 \text{ m}^3$$

$$l \times b \times h = 324$$

$$3x \times 2x \times 2x = 324$$

$$12x^3 = 324$$

$$x^3 = 324/12$$

$$x^3 = 27$$

$$x = 3$$

$$\text{Length} = 3x = 3 \times 3 = 9 \text{ m}$$

5. Two ships are sailing in the sea on the same side of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 60° and 45° respectively. If the lighthouse is 200 m high, the distance between the two ships is.

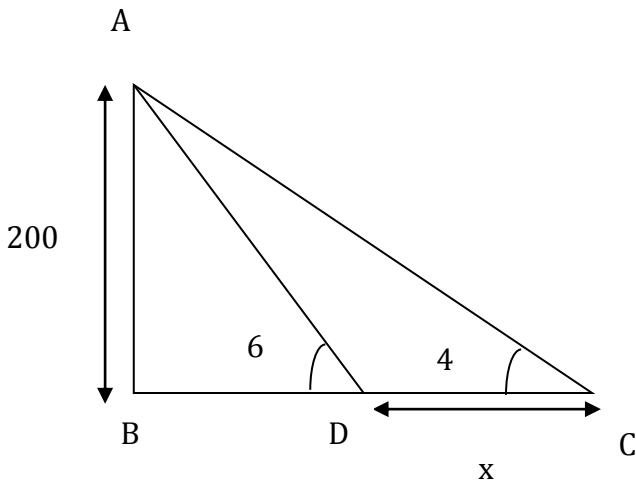
- a) $200(2 + \sqrt{3})/3$
- b) $200(2 - \sqrt{3})/3$
- c) $200(3 + \sqrt{3})/3$
- d) $200(3 - \sqrt{3})/3$

Answer: D

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Let the distance between two ships is x,

$$\tan 60^\circ = 200/BD$$

$$\sqrt{3} = 200/BD$$

$$BD = 200/\sqrt{3}$$

$$\tan 45^\circ = 200/(BD + x)$$

$$1 = 200/(BD + x)$$

$$200 = (BD + x)$$

$$200 = 200/\sqrt{3} + x$$

$$200 - 200/\sqrt{3} = x$$

$$200 \times (1 - 1/\sqrt{3}) = x$$

$$200 (\sqrt{3} - 1)/\sqrt{3} = x$$

$$200 (\sqrt{3} - 1)/\sqrt{3} \times \sqrt{3}/\sqrt{3} = x$$

$$200 (3 - \sqrt{3})/3 = x$$

6. Simplify: $\sqrt{10} + \sqrt{221} + \sqrt{12} + \sqrt{16}$.

a) 4

b) 5

c) 6

d) 11

Answer: B

$$\sqrt{10} + \sqrt{221} + \sqrt{12} + \sqrt{16}$$

$$= \sqrt{10} + \sqrt{221} + \sqrt{12} + 4$$

$$= \sqrt{10} + \sqrt{221} + \sqrt{16}$$

$$= \sqrt{10} + \sqrt{221} + 4$$

$$= \sqrt{10} + \sqrt{225}$$

$$= \sqrt{10} + 15$$

$$= \sqrt{25}$$

$$= 5$$

7. Solve: $(\tan 45^\circ - \tan 30^\circ)/(1 + \tan 45^\circ \cdot \tan 30^\circ)$.

a) $\sqrt{3}$

b) 2

c) $2 + \sqrt{3}$

d) $2 - \sqrt{3}$

Answer: D

$$(\tan 45^\circ - \tan 30^\circ)/(1 + \tan 45^\circ \cdot \tan 30^\circ)$$

$$= (1 - 1/\sqrt{3})/(1 + 1 \times (1/\sqrt{3}))$$

$$= [(\sqrt{3} - 1)/\sqrt{3}]/[(\sqrt{3} + 1)/\sqrt{3}]$$

$$= (\sqrt{3} - 1)/(\sqrt{3} + 1)$$

$$= (\sqrt{3} - 1)/(\sqrt{3} + 1) \times (\sqrt{3} - 1)/(\sqrt{3} - 1)$$

$$= (\sqrt{3} - 1)^2/3 - 1$$

$$= (3 + 1 - 2\sqrt{3})/2$$

$$= (4 - 2\sqrt{3})/2$$

$$= 2 - \sqrt{3}$$

8. 12 men can complete the work in 4 days. 8 men can complete the work in how many days.

a) 4 days

b) 6 days

c) 12 days

d) 15 days

Answer: B

Let the number of days be x,

According to the question,

$$12 \text{ men} \times 4 \text{ days} = 8 \text{ men} \times x \text{ days}$$

$$x = 6 \text{ days}$$

9. In 50 liter mixture of spirit and water 20% is spirit. If 10 liter of water is added to a mixture then find the percentage of spirit.

a) $16 \frac{2}{3}$ %

b) 16%

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c) 18%

d) 9%

Answer: A

Quantity of spirit = $20\% \times 50 = 10$ liter

Percentage of spirit = $10/60 \times 100 = 100/6 = 16 \frac{2}{3} \%$

10. Ratio of Length and Breadth is 3 : 4. Perimeter of rectangle is 28 m. Find the diagonal.

a) 15 m

b) 30 m

c) 10 m

d) 20 m

Answer: C

Perimeter of rectangle = 28 m

$$2 \times (3x + 4x) = 28$$

$$7x = 28/2$$

$$x = 14/7$$

$$x = 2$$

$$\text{Length} = 3x = 3 \times 2 = 6$$

$$\text{Breadth} = 4x = 4 \times 2 = 8$$

$$\text{Diagonal} = \sqrt{6^2 + 8^2}$$

$$= \sqrt{36 + 64}$$

$$= \sqrt{100}$$

$$= 10 \text{ m}$$

11. A can complete the work in 36 days, B can complete the work in 54 days and C can complete the work in 72 days. If A work left the work before 8 days and B left the work before 12 days of completion, then how many days C work.

a) 18 days

b) 20 days

c) 12 days

d) 24 days

Answer: D

A's one day work = $1/36$

B's one day work = $1/54$

C's one day work = $1/72$

Let x be the number of days C work.

According to the question,

$$A + B + C = (x - 8)/36 + (x - 12)/54 + x/72$$

$$[6(x - 8) + 4(x - 12) + 3x]/216$$

$$6x - 48 + 4x - 48 + 3x = 216$$

$$13x - 96 = 216$$

$$13x = 216 + 96$$

$$13x = 312$$

$$x = 312/13$$

$$x = 24 \text{ days}$$

Hence, C work for 24 days

12. 32% of 40% of 60% of a number is equal to 384. Find the number.

a) 3000

b) 4000

c) 6000

d) 5000

Answer: D

Let the number be x,

According to the question,

$$32\% \times 40\% \times 60\% \times x = 384$$

$$x = (384 \times 100 \times 100 \times 100) / (32 \times 40 \times 60)$$

$$= 5000$$

13. The difference between the compound interest and simple interest on Rs. 1600/- for two years is Rs. 100. Find the rate of interest.

a) 15%

b) 12%

c) 20%

d) 25%

Answer: D

$$CI - SI \text{ for 2 years} = PR^2 / (100)^2$$

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$$100 = 1600 \times R^2 / (100)^2$$

$$100^3 / 1600 = R^2$$

$$25 \times 25 = R^2$$

$$R = 25\%$$

14. A person buy a bicycle of Rs. 4600 and he went for repair. A selling price of an article is Rs. 5300 at 6% profit.

Find the repairing cost.

a) Rs. 100

b) Rs. 300

c) Rs. 400

d) Rs. 200

Answer: C

Let the repairing cost be x,

$$\text{Profit \%} = (\text{SP} - \text{CP}) / \text{CP} \times 100$$

$$6 = (\text{SP}/\text{CP} - 1) \times 100$$

$$6/100 = (\text{SP}/\text{CP} - 1)$$

$$3/50 = (\text{SP}/\text{CP} - 1)$$

$$1 + 3/50 = \text{SP}/\text{CP}$$

$$53/50 = 5300 / (4600 + x)$$

$$1/50 = 100 / (4600 + x)$$

$$(4600 + x) = 100 \times 50$$

$$(4600 + x) = 5000$$

$$x = 5000 - 4600$$

$$x = 400$$

Repairing cost is Rs. 400

15. $(1 + \tan A) \times (1 + \tan B) = 2$. Find $\tan (A + B)$.

a) 1

b) 2

c) 3

d) 4

Answer: A

If we put $A = 0^\circ$ and $B = 45^\circ$ then $(1 + \tan A) \cdot (1 + \tan B) =$

2

$$\tan (A + B) = \tan (0^\circ + 45^\circ) = \tan 45^\circ = 1$$

16. Three bells are ringing at intervals of 18 sec, 36 sec and 9 sec. When will they ringing together will?

a) 36 sec

b) 9 sec

c) 12 sec

d) 18 sec

Answer: A

$$\text{LCM of } 18, 36, 9 = 36 \text{ sec}$$

17. A person start travelling a distance with a speed of 7 km/hr from point A, another person start travelling with a speed of 6 km/hr from point B. The distance between A and B is 6 km. At what time will they meet?

a) 4 hour

b) 5 hour

c) 6 hour

d) 7 hour

Answer: C

Relative Speed = $7 - 6 = 1$ km/hr

Time = $6/1 = 6$ hour

18. Ratio of Income and Expenditure is 9 : 5. Income is Rs. 27000/-. Find the salary.

a) Rs. 12000

b) Rs. 15000

c) Rs. 18000

d) Rs. 20000

Answer: A

According to the question,

$$9x = 27000$$

$$x = 27000/9$$

$$x = 3000$$

$$\text{Salary} = \text{Income} - \text{Expenditure}$$

$$= 9x - 5x$$

$$= 4x$$

$$= 4 \times 3000$$

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= 12000

19. Numerator of a fraction is increased by 30% and denominator is decreased by 35% then fraction is $\frac{3}{5}$.

Find the original fraction.

- a) $\frac{3}{5}$
- b) $\frac{3}{10}$
- c) $\frac{3}{2}$
- d) $\frac{10}{3}$

Answer: B

Let the numerator be x and denominator be y,

According to the question,

$$130\% \times x / 65\% \times y = 3/5$$

$$2x/y = 3/5$$

$$x/y = 3/10$$

20. Ratio of A, B and C is 3 : 7 : 8. Sum of their squares is 7808. Find the smallest number.

- a) 122
- b) 64
- c) 56
- d) 24

Answer: D

According to the question,

$$(3x)^2 + (7x)^2 + (8x)^2 = 7808$$

$$9x^2 + 49x^2 + 64x^2 = 7808$$

$$122 x^2 = 7808$$

$$x^2 = 7808/122$$

$$x^2 = 64$$

$$x = 8$$

$$\text{Smallest Number} = 3x = 3 \times 8 = 24$$

21. Length of the rectangle is $\frac{3}{5}$ of radius of circle, radius of circle is two times side of square whose area is 3025 cm^2 and breadth of rectangle is $\frac{1}{5}$ of side of square.

Find area of rectangle.

- a) 1552 cm^2

- b) 1400 cm^2

- c) 1452 cm^2

- d) 1462 cm^2

Answer: C

Area of square = 3025 cm^2

$$a = \sqrt{3025}$$

$$a = 55 \text{ cm}$$

$$\text{Radius} = 2 \times 55 = 110 \text{ cm}$$

$$\text{Length of rectangle} = \frac{3}{5} \times 110 = 66 \text{ cm}$$

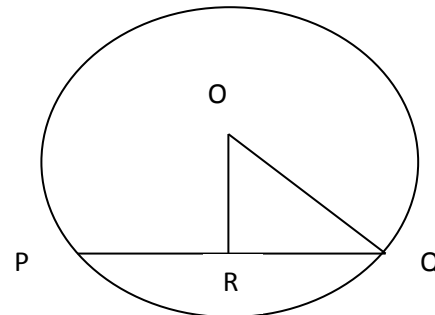
$$\text{Breadth of rectangle} = \frac{1}{5} \times 110 = 22 \text{ cm}$$

$$\text{Area of rectangle} = l \times b = 66 \times 22 = 1452 \text{ cm}^2$$

22. A chord of circle is 24 cm and distance from chord to centre of circle is 5 cm. Find the radius of the circle.

- a) 10 cm
- b) 13 cm
- c) 12 cm
- d) 14 cm

Answer: B



$$PQ = 24 \text{ cm}$$

$$OR = 5 \text{ cm}$$

$$OQ^2 = OR^2 + RQ^2$$

$$OQ^2 = 5^2 + 12^2$$

$$OQ^2 = 25 + 144$$

$$OQ^2 = 169$$

$$OQ = 13 \text{ cm}$$

$$\text{Radius} = 13 \text{ cm}$$

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23. A's age is 3 times of B and half of C. Find the ratio of age of A, B and C.

- a) 3 : 1 : 6
- b) 2 : 1 : 6
- c) 3 : 1 : 2
- d) 3 : 1 : 1

Answer: A

Let A's age be x

According to the question,

$$B = x/3$$

$$C = 2x$$

$$A : B : C = x : x/3 : 2x$$

$$= 3 : 1 : 6$$

24. Find HCF of 2/5, 5/12, 6/17, 54/189.

- a) 5/69
- b) 1/189
- c) 54/189
- d) 1/64260

Answer: D

$$\text{HCF} = 2/5, 5/12, 6/17, 54/189$$

$$= \text{HCF} (2, 5, 6, 54) / \text{LCM} (5, 12, 17, 189)$$

$$= 1/64260$$

25. Average age of 36 boys and professor is 18 years. If professor left the college average age of boys is 17 years.

Find the age of professor.

- a) 54 year
- b) 56 year
- c) 59 year
- d) 60 year

Answer: A

According to the question,

$$36 \text{ Boys} + \text{Professor} = 18 \times 37 = 666$$

$$\text{Sum of Boys age} = 17 \times 36 = 612$$

$$\text{Professor age} = 666 - 612 = 54 \text{ year}$$

26. What is the sum of internal angle of triangle?

- a) 60°
- b) 120°
- c) 180°
- d) 90°

Answer: C

27. Sum of four consecutive odd numbers is 160. Find the smallest number.

- a) 43
- b) 41
- c) 37
- d) 39

Answer: C

According to the question,

$$x + x + 2 + x + 4 + x + 6 = 160$$

$$4x + 12 = 160$$

$$4x = 160 - 12$$

$$4x = 148$$

$$x = 148/4$$

$$x = 37$$

$$\text{Smallest number} = 37$$

28. Find the 50th term of the series 3, 8, 13.....

- a) 250
- b) 248
- c) 245
- d) 240

Answer: B

$$\text{First term} = 3$$

$$\text{Common difference} = 8 - 3 = 5$$

$$T_{50} = 3 + (50 - 1) \times 5$$

$$= 3 + 49 \times 5$$

$$= 3 + 245$$

$$= 248$$

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29. A man purchases a fan for Rs. 120. Find the selling price if he incurred a loss of 5%.

- a) Rs. 114
- b) Rs. 120
- c) Rs. 130
- d) Rs. 140

Answer: A

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

$$5 = (\text{CP} - \text{SP})/\text{CP} \times 100$$

$$5/100 = 1 - \text{SP}/\text{CP}$$

$$1/20 = 1 - \text{SP}/120$$

$$1 - 1/20 = \text{SP}/120$$

$$19/20 = \text{SP}/120$$

$$\text{SP} = 114$$

30. A number increased by 20% and then decreased by 20%. Finally the number is.

- a) Decreased by 4%
- b) Increased by 4%
- c) Does not change
- d) Decreased by 0.4%

Answer: A

$$\text{Final Change} = a^2/100 = (20 \times 20)/100 = 4\% \text{ decrease.}$$

Logical Reasoning

1. Complete the analogy.

Himachal : Dharamshala :: Maharashtra : ?

- a) Pune
- b) Ahmed Nagar
- c) Nagpur
- d) Bhind

Answer: C

Dharamshala is the winter capital of Himachal Pradesh.

Similarly,

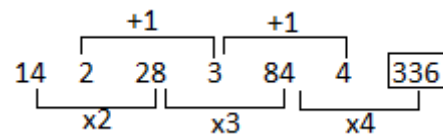
Nagpur is the winter capital of Maharashtra.

2. Complete the series.

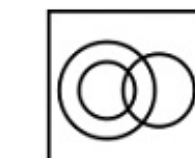
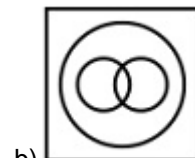
14, 2, 28, 3, 84, 4, ?

- a) 226
- b) 336
- c) 450
- d) 512

Answer: B

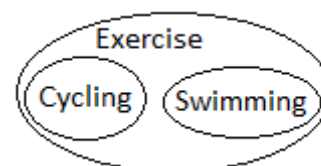


3. Which of the following diagrams indicates the best relation between Cycling, Swimming and Exercise?



d)

Answer: A



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4. 'Law' is related to 'Order' in the same way as 'Criminal' is related to '?'.

- a) Judge
- b) Punishment
- c) Justice
- d) Police

Answer: B

5. If ACEGI = BDFHJ, then KMORS = ?

- a) LPSNT
- b) LPNST
- c) LNPST
- d) LNSPT

Answer: C

A + 1 = B K + 1 = L
C + 1 = D M + 1 = N
E + 1 = F O + 1 = P
G + 1 = H R + 1 = S
I + 1 = J S + 1 = T

6. Select the one which is different from the rest.

- a) Valley
- b) Hill
- c) Plateau
- d) Glacier

Answer: A

- a) **Valley - the low land between two mountains or hills, which often has a river flowing through it.**
- b) Hill - a high area of land that is not as high as a mountain.
- c) Plateau - a large high area of flat land.
- d) Glacier - a mass of ice that moves slowly down a valley.

7. Complete the series.

J, M, Q, V, ?

- a) B
- b) Z
- c) C
- d) D

Answer: A

J + 3 = M; M + 4 = Q; Q + 5 = V; V + 6 = B

8. If $25 * 144 = 17$, $121 * 81 = 20$, then $49 * 121 = ?$

- a) 21
- b) 14
- c) 18
- d) 23

Answer: C

If $25 * 144 = 17 \rightarrow 5^2 * 12^2 = 5 + 12 = 17$

$121 * 81 = 20 \rightarrow 11^2 * 9^2 = 11 + 9 = 20$

Similarly,

$49 * 121 = ? \rightarrow 7^2 * 11^2 = 7 + 11 = 18$

9. Select the one which is different from the rest.

- a) Dehradun
- b) Kohima
- c) Chennai
- d) Uttar Pradesh

Answer: D

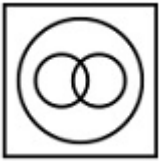
All options except 'Uttar Pradesh' are name of cities, while 'Uttar Pradesh' is a state.

10. Which of the following diagrams indicates the best relation between River, Ganga and Waterfall?



a)

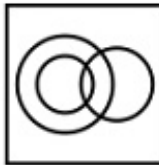
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b)

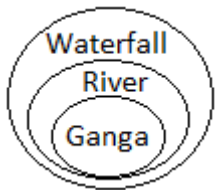


c)



d)

Answer: C



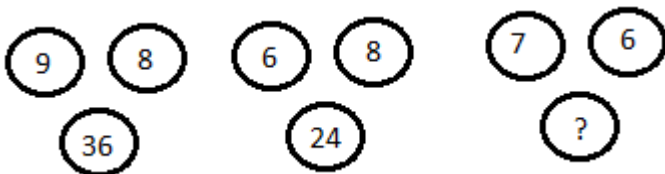
11. Select the odd one out.

- a) Principal
- b) Doctor
- c) Engineer
- d) Teacher

Answer: A

All options except 'Principal' are name of different professionals, while 'Principal' is the head of school/college.

12. Find the missing number in the diagram given below.



- a) 42
- b) 21
- c) 63

d) 14

Answer: B

$$(9 \times 8) \div 2 = 36$$

$$(6 \times 8) \div 2 = 24$$

Similarly,

$$(7 \times 6) \div 2 = 21$$

13. Complete the series.

2A, 3C, 5F, 7J, 11O, ?

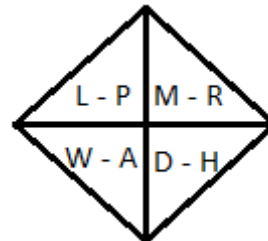
- a) 13U
- b) 13P
- c) 13R
- d) 13W

Answer: A

2, 3, 5, 7, 11, 13 – Prime number series.

$$A + 2 = C; C + 3 = F; F + 4 = J; J + 5 = O; O + 6 = U$$

14. Find the wrong term in the below given figure.



- a) L - P
- b) D - H
- c) W - A
- d) M - R

Answer: D

Gap between each pair:

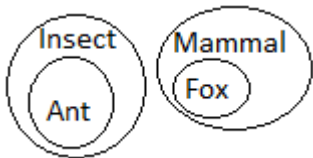
- a) L - P → 4
- b) D - H → 4
- c) W - A → 4
- d) M - R → 3

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15. Which of the following diagrams indicates the best relation between Ant, Insect, Mammal and Fox?

- a)
- b)
- c)
- d)

Answer: B



16. An equation followed by two conclusions is given below.

Statement: $A > B < D = F > G$

Conclusions:

- I. $D > A$
II. $F > D$

Choose the correct option.

- a) Only I is true.
b) Only II is true.
c) Both I and II are true.
d) Neither I nor II is true.

Answer: D

I. $D > A \rightarrow$ False (As, $A > B < D \rightarrow$ Relation between D and A cannot be determined)

II. $F > D \rightarrow$ False (As, $D = F$)

17. In a certain code language, ALBINISM is written as '79', then how is NEURON written in that code?

- a) 87
b) 89
c) 77
d) 93

Answer: A

$ALBINISM = 1 + 12 + 2 + 9 + 14 + 9 + 19 + 13 = 79$

Similarly,

$NEURON = 14 + 5 + 21 + 18 + 15 + 14 = 87$

18. Find the missing number in the matrix.

17	16	25	18	29	14
14	13	22	15	35	?

- a) 20
b) 18
c) 22
d) 15

Answer: A

$17 + 13 = 14 + 16$

$15 + 15 = 22 + 18$

Similarly,

$29 + ? = 35 + 14$

$\Rightarrow ? = 49 - 29$

$\Rightarrow ? = 20$

19. Select the word-pair which is related in the same way as are the word-pair related given below.

Kingfisher : Bird

- a) Apple : Fruit
b) Nuts : Almond
c) Furniture : Wood
d) Mammal : Bat

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Answer: A

Kingfisher is a Bird.

Similarly,

Apple is a Fruit.

20. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any follows from the given statements.

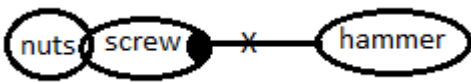
Statement:

- I. Some nuts are screw.
- II. Some screw is not hammer.

Conclusion:

- I. Some hammers are not screw.
- II. Some nuts are hammer.
- a) Only conclusion II follows
- b) Only conclusion I follows
- c) Neither I nor II follows
- d) Both I and II follow

Answer: C



- I. Some hammers are not screw. - False
- II. Some nuts are hammer. - False

21. Find out the two signs to be interchanged to make the following equation correct.

$$27 + 24 \times 1 - 7 \div 3 = 30$$

- a) - and ÷
- b) + and -
- c) × and ÷
- d) - and ×

Answer: C

$$27 + 24 \times 1 - 7 \div 3 = 30$$

c) × and ÷

$$\Rightarrow 27 + 24 \div 1 - 7 \times 3 = 30$$

$$\Rightarrow 27 + 24 - 21 = 30$$

$$\Rightarrow 51 - 21 = 30$$

$$\Rightarrow 30 = 30$$

22. In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

Industrial Revolution which started in Europe first, has brought about the modern age.

Conclusions:

- I. Disparity between rich and poor results in a revolution.
- II. Revolution overhauls society.

Choose the correct alternative.

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

Answer: A

23. The weights of 4 boxes are 30, 90, 80 and 20 Kg.

Which of the following cannot be the total weight, in kilograms, of any combination of these boxes and in a combination a box can be used only once?

- a) 220
- b) 210
- c) 120
- d) 110

Answer: B

$$a) 220 \rightarrow 30 + 90 + 80 + 20 = 220$$

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b) 210 → It cannot be the total weight, in kilograms, of any combination of these boxes.

c) $120 \rightarrow 90 + 20 = 120$

d) $110 \rightarrow 80 + 30 = 110$

24. In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

ABC tuitions promise excellent teaching by excellent teachers for sure success.

Conclusions:

I. Their promise downgrades other tuition classes.

II. No candidate has been unsuccessful so far.

Choose the correct alternative.

a) Only conclusion II follows

b) Only conclusion I follows

c) Neither I nor II follows

d) Both I and II follow

Answer: C

25. Arrange the below given words in a logical and meaningful order.

1. Plant
2. Seed
3. Sprout
4. Sapling
5. Tree

a) 2, 3, 4, 1, 5

b) 2, 3, 1, 4, 5

c) 2, 4, 3, 1, 5

d) 2, 2, 4, 3, 5

Answer: A

2. Seed

3. Sprout

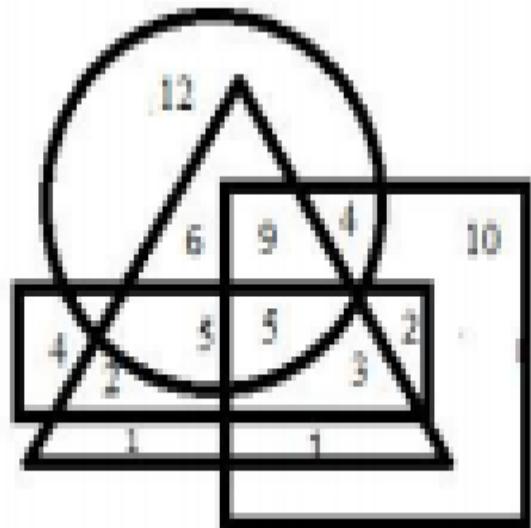
4. Sapling

1. Plant

5. Tree

26. In the Venn diagram given below, triangle represents hockey players, rectangle represents cricket players, square represents football players and circle represents tennis players.

How many persons play both cricket and hockey but not tennis?



a) 2

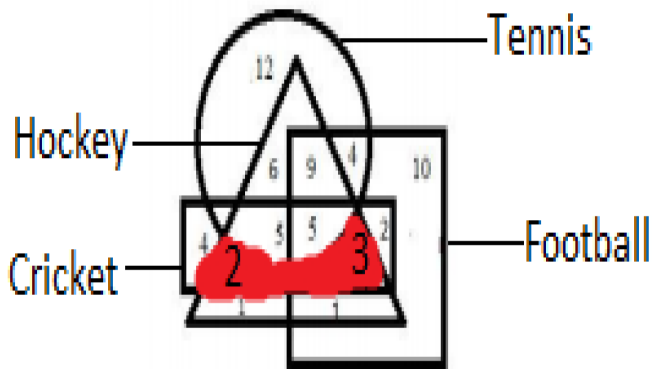
b) 3

c) 5

d) 1

Answer: C

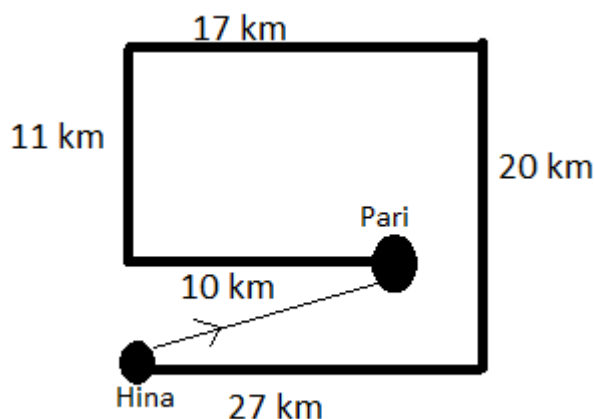
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27. Pari and Hina start from the same point. Pari rides 17 km West, then turns South and rides 11 km, then turns to her right and rides 10 km. Hina rides 20 km South, then turns to her right and rides 27 km. In which direction is Pari with respect to Hina?

- a) North-East
- b) North-West
- c) South-East
- d) South-West

Answer: A



28. In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

The best evidence of India's glorious past is the growing popularity of Ayurvedic medicines in the West.

Conclusions:

- I. Ayurvedic medicines are not popular in India.
- II. Allopathic medicines are more popular in India.

Choose the correct alternative.

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

Answer: C

29. If + means -, - means ×, × means ÷ and ÷ means +, then what will be value of following expression?

$$90 \times 10 - 15 \div 45 + 26 = ?$$

- a) 123
- b) 145
- c) 167
- d) 154

Answer: D

+	-	×	÷
-	×	÷	+

$$90 \times 10 - 15 \div 45 + 26 = ?$$

After replacing symbols:

$$\begin{aligned} &90 \div 10 \times 15 + 45 - 26 \\ &= 9 \times 15 + 45 - 26 \\ &= 135 + 45 - 26 \\ &= 154 \end{aligned}$$

30. In this question, two statements are given followed by two conclusions. Choose the Conclusion which best fit(s) logically.

Statements:

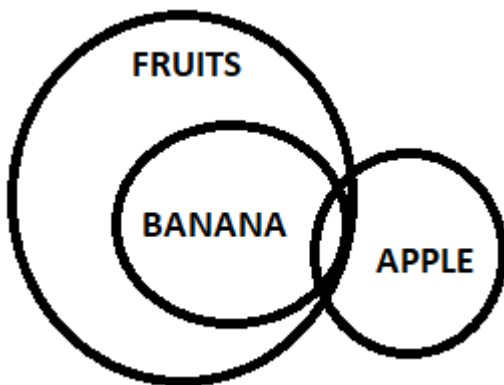
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- 1) Some apples are banana.
- 2) All bananas are fruits.

Conclusions:

- I. Some fruits are apple.
 - II. Some banana is fruits.
- a) Only conclusion II follows
 - b) Only conclusion I follows
 - c) Neither conclusion I nor II follows
 - d) Both conclusions I and II follow

Answer: D



- I. Some fruits are apple - True
- II. Some banana is fruits – True

General Awareness

1) Who won the Sir Garfield Sobers Award for ICC Male Cricketer of the Decade 2020?

- a) Virat Kohli
- b) MS Dhoni
- c) Rohit Sharma
- d) KL Rahul

Answer: a)

The winners of the prestigious ICC Awards of the Decade including the Rachel Heyhoe-Flint for Best Female Player and Sir Garfield Sobers for Best Male Player, were announced on December 28, 2020.

Virat Kohli won the Sir Garfield Sobers Award for ICC Male Cricketer of the Decade and Ellyse Perry won the

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Rachael Heyhoe-Flint Award for ICC Female Cricketer of the Decade.

2) Mohiniyattam dance form is of which state?

- a) Kerala
- b) Tamil Nadu
- c) Odisha
- d) Karnataka

Answer: a)

Mohiniyattam, is one of the famous classical dances of India that developed and remained popular in the state of Kerala. It's roots are in the Natya Shastra-the ancient Hindu Sanskrit text on performance arts.

3) 'A Passage to India' book is authored by whom?

- a) Robert Ludlum
- b) Stephen King
- c) Belva Plain
- d) Edward Morgan Forster

Answer: d)

A Passage to India is a novel by English author E. M. Forster set against the backdrop of the British Raj and the Indian independence movement in the 1920s. The novel is based on Forster's experiences in India.

4) Name the author of the book 'The Little Balance'.

- a) Galileo Galilei
- b) Johannes Kepler
- c) Giordano Bruno
- d) Nicolaus Copernicus

Answer: a)

'The Little Balance' is authored by Galileo Galilei. This book describes an accurate balance to weigh objects in air or water.

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5) Which among the following fundamental right is the first fundamental right assured to the people of India.?

- a) Right to Freedom
- b) Right to Freedom of Religion
- c) Right to Equality
- d) Right to Privacy

Answer: c)

The fundamental rights are guaranteed to protect the basic human rights of all citizens of India. Right to Equality is the first fundamental right assured to the people of India. Article 14-18 of the Constitution guarantees this right to every citizen of India.

6) How many beaches in India have been awarded the coveted 'Blue Flag' certification?

- a) Three
- b) Eight
- c) Five
- d) Eleven

Answer: b)

Eight beaches in India have been awarded the prestigious Blue Flag certification. The Blue Flag certification is a globally recognised eco-label accorded by "Foundation for Environment Education, Denmark" based on 33 stringent criteria under four major heads-environmental education and information, bathing water quality, environment management and conservation, and safety and services at the beaches.

7) Who was the Chief Minister of Goa in 2018?

- a) Bhupesh Baghel
- b) Pramod Sawant
- c) Manohar Parrikar

d) Pinarayi Vijayan

Answer: c)

Manohar Parrikar was an Indian politician and leader of the Bharatiya Janata Party who served as Chief Minister of Goa from 14 March 2017 until his death in 2019. He was the CM of Goa in 2018.

8) The First Battle of Panipat was fought in which year?

- a) 1526
- b) 1531
- c) 1533
- d) 1545

Answer: a)

The First Battle of Panipat, on 21 April 1526, was fought between the invading forces of Babur and the Lodi Kingdom. It took place in north India and marked the beginning of the Mughal Empire and the end of the Delhi Sultanate.

9) The East India Association was founded by whom?

- a) Dr. Rajendra Prasad
- b) C. Rajagopalachari
- c) B.R Ambedkar
- d) Dadabhai Naoroji

Answer: d)

The East India Association was founded by Dadabhai Naoroji in 1866, in collaboration with Indians and retired British officials in London. It superseded the London Indian Society and was a platform for discussing matters and ideas about India, and to provide representation for Indians to the Government.

10) The Quit India Movement was started from which city and in which year?

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- a) Delhi, 1950
- b) Mumbai, 1942
- c) Chennai, 1935
- d) Kolkata, 1940

Answer: b)

The Quit India Movement, or the August Movement, was a movement launched at the Bombay session of the All-India Congress Committee by Gandhiji on 8 August 1942, during World War II, demanding an end to British Rule of India. It was a movement in which Gandhiji adopted a stern attitude to pressurize the British Government to quit India.

11) Who is the current Director-General of UNESCO?

- a) Irina Bokova
- b) Audrey Azoulay
- c) Koichiro Matsuura
- d) Federico Mayor Zaragoza

Answer: b)

Audrey Azoulay is a French civil servant and politician who has been serving as the Director-General of the United Nations Educational, Scientific and Cultural Organization (UNESCO) since 2017. She is the second female leader of the organization.

12) Who was the first Governor of the Reserve Bank of India?

- a) James Braid Taylor
- b) C. D. Deshmukh
- c) Osborne Smith
- d) Benegal Rama Rau

Answer: c)

Osborne Smith was the first Governor of the Reserve Bank of India from 1 April 1935 to 30 June 1937. He was a

professional banker who served for 20 years with the Bank of New South Wales and 10 years with the Commonwealth Bank of Australia.

13) Smiling Buddha, India's first successful nuclear bomb test was conducted in_____.

- a) 1974
- b) 1977
- c) 1981
- d) 1985

Answer: a)

Smiling Buddha was the assigned code name of India's first successful nuclear bomb test on 18 May 1974. The bomb was detonated on the army base Pokhran Test Range (PTR), in Rajasthan, by the Indian Army under the supervision of several key Indian generals.

14) National Green Tribunal (NGT) was established in which year?

- a) 2008
- b) 2010
- c) 2004
- d) 2007

Answer: b)

The NGT was established in the year 2010 under the National Green Tribunal Act of 2010 to dispose of civil cases relating to environmental protection and conservation of forests and other natural resources, including enforcement of any legal rights related to the environment.

15) National Skill Development Programme was started in which year?

- a) 2015

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- b) 2018
- c) 2012
- d) 2017

Answer: a)

National Skill Development Programme was launched by Prime Minister Shri Narendra Modi on 15 July 2015. It aims to train over 40 crore people in India in different skills by 2022. The mission aims at vocational training and certification of Indian youth for a better livelihood and respect in the society.

16) Who is the current Chief Election Commissioner of India?

- a) Om Prakash Rawat
- b) Achal Kumar Jyoti
- c) Nasim Zaidi
- d) Sunil Arora

Answer: d)

Sunil Arora is the current and 23rd Chief Election Commissioner of India. He is also the chairman for Association of World Election Bodies.

17) Which of the following movement was started together with Dandi March in the year 1930?

- a) Non-Cooperation Movement
- b) Civil Disobedience Movement
- c) Quit India Movement
- d) Champaran Movement

Answer: b)

Civil disobedience movement started was started with Dandi March by Mahatma Gandhi on 12th March, 1930. On 12 March, 1930 he along with his 78 followers began a march from the Sabarmati Ashram to "Dandi" on the Gujarat coast. It was a distance of 200 miles. At Dandi a

few days later they violated the salt laws by making salt from sea-water. This led to the beginning of the civil disobedience Movement.

18) Which Indian city was included in the list of UNESCO World Heritage Site recently?

- a) Guwahati
- b) Jaipur
- c) Gangtok
- d) Dehradun

Answer: b)

Jaipur has become the second city of the country after Ahmedabad to get the UNESCO World Heritage Site recognition. The decision was taken at the 43rd session of the UNESCO World Heritage Committee (WHC) that took place in the city of Baku, Azerbaijan in 2019.

19) Which article of the Constitution deals with the powers of the Parliament to amend the Constitution and its procedure?

- a) Article 366
- b) Article 369
- c) Article 370
- d) Article 368

Answer: d)

Article 368 in Part XX of the Constitution deals with the powers of the Parliament to amend the Constitution and its procedure. This procedure ensures the sanctity of the Constitution of India and keeps a check on arbitrary power of the Parliament of India.

20) The Dronacharya Award, is given in the field of_____.

- a) Literature

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- b) Sports
- c) Music
- d) Journalism

Answer: b)

The Dronacharya Award, for Outstanding Coaches in Sports and Games, is sports coaching honour of the Republic of India. It is awarded annually by the Ministry of Youth Affairs and Sports.

21) Which country will host the men's edition of the junior hockey World Cup 2021?

- a) India
- b) Spain
- c) Chile
- d) Bangladesh

Answer: a)

The 2021 Men's FIH Hockey Junior World Cup will be the 12th edition of the Men's FIH Hockey Junior World Cup, the biennial men's under-21 field hockey world championship organized by the International Hockey Federation. It will be held in India in late 2021.

22) Osteoporosis occurs due to the deficiency of_____.

- a) Vitamin A
- b) Vitamin K
- c) Vitamin B12
- d) Vitamin D

Answer: d)

Osteoporosis is a bone disease that causes a loss of bone density, which increases your risk of fractures. It is caused due to the deficiency of Vitamin D.

23) Who among the following founded a newspaper named 'Kesari'?

- a) Allan Octavian Hume
- b) Bal Gangadhar Tilak
- c) Womesh Chandra Banerjee
- d) Mahatma Gandhi

Answer: b)

Bal Gangadhar Tilak in 1881 founded a newspaper named 'Kesari' which was used as a mouthpiece for the Indian national freedom movement.

24) Which movement was led by Gandhiji after Jallianwala Bagh Massacre that lasted from 1920-1922?

- a) Civil Disobedience Movement
- b) Khilafat movement
- c) Non-Cooperation Movement
- d) Home Rule Movement

Answer: c)

The Non-Cooperation Movement was a significant but short phase of the Indian independence movement from British rule. It was led by Mahatma Gandhi after the Jallianwala Bagh Massacre and lasted from 1920 to February 1922. It aimed to resist British rule in India through non-violence.

25) Dhansiri river is a tributary of_____.

- a) Indus
- b) Brahmaputra
- c) Narmada
- d) Ganga

Answer: b)

Dhansiri is the main river of Golaghat District of Assam and the Dimapur District of Nagaland. It originates from

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Laisang peak of Nagaland. It is a tributary of Brahmaputra river.

26) Mohenjo-daro is situated on which river?

- a) Indus
- b) Narmada
- c) Kaveri
- d) Godavari

Answer: a)

Mohenjo-daro located on the right bank of the Indus River is an archaeological site in the province of Sindh, Pakistan. It was one of the largest settlements of the ancient Indus Valley Civilisation.

27) Which one of the following award is given in the field of Architecture?

- a) Man Booker prize
- b) Pritzker prize
- c) R.D Birla award
- d) Saraswati Samman

Answer: b)

The Pritzker Architecture Prize is awarded annually to honor a living architect. It is considered to be one of the world's premier architecture prizes, and is often referred to as the Nobel Prize of architecture.

28) Panchayati Raj system was started in India in which year?

- a) 1955
- b) 1945
- c) 1959
- d) 1968

Answer: c)

Panchayati Raj, was inaugurated by the then Prime Minister Pandit Jawaharlal Nehru on 2 October 1959 at Nagour in Rajasthan. The first elections under the Rajasthan Panchayat Samitis and Zilla Parishads Act, 1959 were held in September-October 1959.

29)_____ is a specialty of medicine that concerns with study of the kidneys.

- a) Nephrology
- b) Hematology
- c) Serology
- d) Immunology

Answer: a)

Nephrology is a specialty of medicine that concerns with study of the kidneys, specifically normal kidney function and kidney disease, the preservation of kidney health, and the treatment of kidney disease, from diet and medication to renal replacement therapy.

30) What is the symbol of Gold?

- a) Cu
- b) Au
- c) Fe
- d) Ag

Answer: b)

Gold is a chemical element with the symbol Au and atomic number 79, making it one of the higher atomic number elements that occur naturally. It is a transition metal and a group 11 element.

31) The Nationalist Congress Party was founded on_____.

- a) 25 May 1999
- b) 16 May 1999

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c) 10 May 1999

d) 29 May 1999

Answer: a)

The Nationalist Congress Party is one of the eight national parties in India. It was formed on 25 May 1999, by Sharad Pawar, P. A. Sangma, and Tariq Anwar after they were expelled from the Indian National Congress (INC) on 20 May 1999, for disputing the right of Italian-born Sonia Gandhi to lead the party.

32) When was Five year plan started in India?

a) 1955

b) 1949

c) 1951

d) 1965

Answer: c)

The First Five-year Plan was launched in 1951 which mainly focused in development of the primary sector. The first Indian prime minister, Jawaharlal Nehru, presented the First Five-Year Plan to the Parliament of India.

33) Who was proclaimed as the Emperor of India by the Sepoys during the Revolt of 1857?

a) Nana Sahib

b) Begum Hazrat Mahal

c) Bahadur Shah Zafar

d) Liyaqat Ali

Answer: c)

The 82-Year-old Bahadur Shah Zafar was declared as the Emperor of India by the sepoys. Bahadur Shah Zafar, also known as Bahadur Shah II, was the last Mughal emperor of India who reigned from 1837 to 1857 for a period of 20 years.

34) Dipa Karmakar is associated with which sport?

a) Gymnastics

b) Badminton

c) Table-Tennis

d) Wrestling

Answer: a)

Dipa Karmakar is an Indian artistic gymnast. She first gained attention when she won a bronze medal at the 2014 Commonwealth Games in Glasgow, becoming the first Indian female gymnast to do so in the history of the Games.

35) International Women's Day is observed on _____.

a) 9th April

b) 2nd October

c) 8th March

d) 3rd May

Answer: c)

International Women's Day is celebrated on the 8th of March every year around the world. It is a focal point in the movement for women's rights.

36) Kajari Dance is associated with which Indian state?

a) Assam

b) Uttar Pradesh

c) Haryana

d) Chhattisgarh

Answer: b)

Kajari dance is performed along with Kajari song which is a monsoon song. Starting in the Indian month of 'Shravan' which is the start of monsoon season, the dance is performed till the time rainy season persists. It is popular in Uttar Pradesh and Bihar.

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37) Who among the following is the CEO of Snapdeal?

- a) Rajesh Gopinathan
- b) Kunal Bahl
- c) Salil Parekh
- d) Kalyan Krishnamurthy

Answer: b)

Snapdeal is an Indian e-commerce company based in New Delhi, India. The company was founded by Kunal Bahl and Rohit Bansal in February 2010.

38) What is the scientific name for the Zebra?

- a) Equus quagga
- b) Canis lupus familiaris
- c) Gavialis gangeticus
- d) Hemidactylus flaviviridis

Answer: a)

Common Name of Zebra is Plains Zebra and Scientific Name is Equus quagga.

39) Keibul Lamjao National Park is located in which state/UT?

- a) Manipur
- b) Mizoram

c) Arunachal Pradesh

d) Jammu and Kashmir

Answer: a)

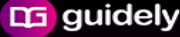
The Keibul Lamjao National Park is a national park in the Bishnupur district of the state of Manipur in India. It is the only floating park in the world, located in North East India, and an integral part of Loktak Lake.

40) Which state is the largest producer of chromite in India?


- a) Odisha
- b) Rajasthan
- c) Assam
- d) Punjab

Answer: a)

Odisha accounts for about 98% of the total proved chromite reserves of the country, of which about 97% occur in the Sukinda Valley. Sukinda is a town in Jajpur district, Odisha, India.



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