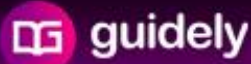


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**Mathematics**

1. Find the sum of square of numbers from 1 to 12.

- a) 650
- b) 700
- c) 750
- d) 800

Answer: A

$$\sum [n \times (n + 1) \times (2n + 1)]/6$$

$$n = 12$$

$$= \{12 \times (12 + 1) \times (24 + 1)\}/6$$

$$= \{12 \times 13 \times 25\}/6$$

$$= 2 \times 13 \times 25$$

$$= 650$$

2. Salary of workers increases by 35% and work decreases by 25%. Find the change in wages of workers.

- a) - 1.25% decreases
- b) 1.25% increases
- c) 1.25% decreases
- d) - 1.25% increases

Answer: B

Particulars	Initial	Final
Salary	20	27
Work	4	3
Wages	80	81

Change in wages =  $1/80 \times 100 = 1.25\%$  increases.

3. A B C D E are numbers arrange in order. Represent the number.

- a)  $100A + 1000B + 100C + 100D + E$

$$b) 10000A + 100B + 100C + 1000D + E$$

$$c) 10000A + 1000B + 100C + 100D + E$$

$$d) 10000A + 100B + 1000C + 100D + E$$

Answer: C

$$A = 10^4 = 10000$$

$$B = 10^3 = 1000$$

$$C = 10^2 = 100$$

$$D = 10^1 = 10$$

$$E = 10^0 = 1$$

$$10000A + 1000B + 100C + 100D + E$$

4. A dimension of room is  $12 \times 8$ . How many square tiles can be placed in a room?

- a) 7
- b) 8
- c) 9
- d) 6

Answer: D

$$\text{HCF of } 12 \text{ and } 8 = 4$$

$$\text{Dimension of tiles} = 4 \times 4$$

$$\text{No. of tiles} = (12 \times 8) / (4 \times 4) = 6 \text{ tiles}$$

5. Perimeter of equilateral triangle is 36 cm. Find the area.

- a)  $30\sqrt{3} \text{ cm}^2$
- b)  $16\sqrt{3} \text{ cm}^2$
- c)  $36\sqrt{3} \text{ cm}^2$
- d)  $32\sqrt{3} \text{ cm}^2$

Answer: C

$$\text{Perimeter of equilateral triangle} = 36 \text{ cm}$$

$$3a = 36$$

$$a = 36/3$$

$$a = 12 \text{ cm}$$

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Area of equilateral triangle =  $\sqrt{3} \times a^2/4$   
 $= \sqrt{3} \times 12^2/4$   
 $= 36\sqrt{3} \text{ cm}^2$

6. Sum of two numbers is 84. LCM and HCF is 124 and 3. Find the sum of reciprocal of numbers.

- a) 6/17
- b) 7/31
- c) 4/25
- d) 5/19

Answer: B

Let the two numbers be a and b,

According to the question,

$$a + b = 84$$

$$\text{LCM} = 124$$

$$\text{HCF} = 3$$

$$a \times b = 124 \times 3 = 372$$

$$1/a + 1/b = (a + b)/ab = 84/372 = 7/31$$

7. Sum of two numbers is 80. Difference of two numbers is 8. Find the numbers.

- a) 26 and 32
- b) 44 and 26
- c) 44 and 36
- d) 16 and 18

Answer: C

Let the two numbers be a and b,

According to the question,

$$a + b = 80$$

$$a - b = 8$$

$$2a = 88$$

$$a = 88/2$$

$$a = 44$$

$$b = 36$$

8. A person travels a certain distance with a speed of 55 kmph in 5/2 hour. Find the distance.

- a) 137.5 km
- b) 177.5 km
- c) 137 km
- d) 127.5 km

Answer: A

$$\text{Distance} = \text{Speed} \times \text{Time}$$

$$= 55 \times 5/2$$

$$= 275/2$$

$$= 137.5 \text{ km}$$

9. Find the ratio of total internal angle of pentagon and octagon.

- a) 2 : 1
- b) 3 : 4
- c) 4 : 3
- d) 1 : 2

Answer: D

$$\text{Ratio} = (2n_1 - 4) \times 90^\circ : (2n_2 - 4) \times 90^\circ$$

$$= (2 \times 5 - 4) : (2 \times 8 - 4)$$

$$= (10 - 4) : (16 - 4)$$

$$= 6 : 12$$

$$= 1 : 2$$

10. A diameter of wheel is 88 cm. A wheel travels a distance of 8712 cm. Find the number of revolutions of wheel.

- a) 31
- b) 35
- c) 25
- d) 24

Answer: A

$$\text{No. of revolutions} = 8712 / (2\pi r)$$

$$= 8712 / (2 \times 22/7 \times 88/2)$$

$$= 8712 / (2 \times 22/7 \times 44)$$

$$= 31.5$$

$$\approx 31$$

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11. Ratio of a and b is 4 : 3. Find  $(a^3 + b^3)/(a^3 - b^3)$ .

- a) 19/32
- b) 18/37
- c) 91/27
- d) 91/37

Answer: D

$$\begin{aligned} & (a^3 + b^3)/(a^3 - b^3) \\ &= [(4x)^3 + (3x)^3]/[(4x)^3 - (3x)^3] \\ &= [64 + 27] \times (x)^3/[64 - 27] \times (x)^3 \\ &= [64 + 27]/[64 - 27] \\ &= 91/37 \end{aligned}$$

12. An adjacent angle of parallelogram is x and  $3x - 28^\circ$ .

Find the largest angle.

- a)  $54^\circ$
- b)  $128^\circ$
- c)  $52^\circ$
- d)  $126^\circ$

Answer: B

An adjacent angle of parallelogram =  $180^\circ$

$$x + 3x - 28^\circ = 180^\circ$$

$$4x - 28^\circ = 180^\circ$$

$$4x = 180^\circ + 28^\circ$$

$$4x = 208^\circ$$

$$x = 208^\circ/4 = 52^\circ$$

$$3x - 28^\circ = 3 \times 52^\circ - 28^\circ = 156^\circ - 28^\circ = 128^\circ$$

13. Simplify:  $50 \times 5/2$ .

- a) 125
- b) 150
- c) 225
- d) 250

Answer: A

$$50 \times 5/2$$

$$= 250/2$$

$$= 125$$

14.  $0.5\overline{27}$  Represent in p/q form.

- a) 53/99
- b) 527/99
- c) 261/425
- d) 24/57

Answer: C

$$(527 - 5)/990 = 522/990 = 261/425$$

15.  $a^2 + b^2 + c^2 + d^2 = 1$ . Find the maximum value of abcd.

- a) 1/2
- b) 1/16
- c) 1/8
- d) 1/4

Answer: B

$$a^2 + b^2 + c^2 + d^2 = 1$$

$$a^2 = b^2 = c^2 = d^2 = 1/4$$

$$a = b = c = d = 1/2$$

$$abcd = 1/2 \times 1/2 \times 1/2 \times 1/2 = 1/16$$

16. A cost price of an article is Rs. 65000 and selling price of an article is Rs. 78000. Find the profit percent.

- a) 12%
- b) 15%
- c) 20%
- d) 25%

Answer: C

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

$$= (78000 - 65000)/65000 \times 100$$

$$= 13000/65000 \times 100$$

$$= 100/5$$

$$= 20\%$$

17. Solve:  $(\cos 15^\circ - \sin 75^\circ)/(\cos 15^\circ + \sin 75^\circ)$ .

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

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d) 3

Answer: A

$$\begin{aligned} & (\cos 15^\circ - \sin 75^\circ) / (\cos 15^\circ + \sin 75^\circ) \\ &= (\sin 75^\circ - \sin 75^\circ) / (\sin 75^\circ + \sin 75^\circ) \\ &= 0/2 \\ &= 0 \end{aligned}$$

18. Selling price of 40 articles is equal to cost price of 35 articles. Find the loss percent.

- a) 18%
- b) 12 (1/2) %
- c) 12 (3/2) %
- d) 15%

Answer: B

According to the question,

$$40 \times SP = 35 \times CP$$

$$SP/CP = 7/8$$

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

$$= (1 - SP/CP) \times 100$$

$$= (1 - 7/8) \times 100$$

$$= 100/8$$

$$= 12 (1/2) \%$$

19. Convert  $54^\circ$  in radian.

- a)  $3\pi/13$
- b)  $3\pi/7$
- c)  $3\pi/10$
- d)  $3\pi/5$

Answer: C

$$54^\circ = 54 \times \pi/180 = 3\pi/10$$

20. Radius of the circle is 28 cm and the length of the arc is 22 cm. Find the arc angle.

- a)  $180^\circ$
- b)  $90^\circ$
- c)  $22.5^\circ$
- d)  $45^\circ$

Answer: D

$$l = r \times \theta$$

$$22 = 28 \times \theta$$

$$\theta = 22/28 \text{ radian}$$

$$\theta = 22/28 \times 180^\circ / \pi$$

$$= 22/28 \times 180^\circ / (22/7)$$

$$= 22 \times 7 \times 180^\circ / 28 \times 22$$

$$= 45^\circ$$

21. Simplify:  $(\sin \theta) / (1 + \cos \theta) + (\sin \theta) / (1 - \cos \theta)$ .

- a)  $2 \sec \theta$
- b)  $2 \operatorname{cosec} \theta$
- c)  $2 \cos \theta$
- d)  $2 \sin \theta$

Answer: B

$$(\sin \theta) / (1 + \cos \theta) + (\sin \theta) / (1 - \cos \theta)$$

$$= [(\sin \theta) \times (1 - \cos \theta) + (\sin \theta) \times (1 + \cos \theta)] / (1 - \cos^2 \theta)$$

$$= \{\sin \theta - \sin \theta \times \cos \theta + \sin \theta - \sin \theta \times \cos \theta\} / \sin^2 \theta$$

$$= 2\sin \theta / \sin^2 \theta$$

$$= 2 / \sin \theta$$

$$= 2 \operatorname{cosec} \theta$$

22. Length of rectangle increases by 25% and breadth is increased by 50%. Find the change in area.

- a) 55%
- b) 87.5%
- c) 87%
- d) 67.5%

Answer: B

Length = 4	5
------------	---

Breadth = 2	3
-------------	---

Area = 8	15
----------	----

$$\text{Change in area} = 7/8 \times 100 = 87.5\%$$

23. 5 pieces in 1 meter. How many pieces in 57.6 meter?

- a) 144
- b) 288

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c) 72

d) 36

Answer: B

1 meter = 5 pieces

57.6 meter =  $57.6 \times 5 = 288$  pieces

24. A can complete the work in 10 days and B can complete the work in 20 days. A work for 4 days then B joins the work. Find the total time taken to complete the work.

a) 3 days

b) 2 days

c) 4 days

d) 8 days

Answer: D

A's one day work =  $1/10$

B's one day work =  $1/20$

A work for 4 days =  $1/10 \times 4 = 2/5$

Remaining work =  $1 - 2/5 = 3/5$

A and B complete the remaining work =  $5/3 \times 3/20$

=  $1/4$

So, total time =  $4 + 4 = 8$  days

25. What should be added to the numerator and denominator so that the ratio of 4 : 7 becomes 2 : 3?

a) 1

b) 2

c) 3

d) 4

Answer: B

According to the question,

$$4 + x / 7 + x = 2/3$$

$$3 \times (4 + x) = 2 \times (7 + x)$$

$$12 + 3x = 14 + 2x$$

$$3x - 2x = 14 - 12$$

$$x = 2$$

26. A man goes office from home at a speed of 20 kmph and come back at 25 kmph. Then find his average speed?

a) 22.22 km/hr

b) 25.33 km/hr

c) 28.12 km/hr

d) 30.33 km/hr

Answer: A

$$\text{Average Speed} = (2 \times 20 \times 25) / (20 + 25)$$

$$= 1000/45$$

$$= 22.22 \text{ km/hr}$$

27. Simple interest on a sum for 10 years is equal to 5% of the principal. In how many years interest will be equal to the principal?

a) 100

b) 150

c) 200

d) 250

Answer: C

Let Principal = P,

$$\text{SI} = P \times 5/100 = P/20$$

$$\text{SI} = P \times R \times T/100$$

$$P/20 = P \times R \times 10/100$$

$$1/20 = R/10$$

$$R = 0.5 = 1/2\%$$

Now,

$$\text{SI} = P \times R \times T/100$$

$$P = P \times 1/2 \times T/100$$

$$T = 200 \text{ years}$$

28. Average age of 6 boys is 14 years. Average age of 11 girls is 12 years. What is the average age (in years) of all boys and girls?

a) 12.7

b) 14.6

c) 19.3

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d) 8.5

Answer: A

Sum of age of 6 boys =  $6 \times 14 = 84$

Sum of age of 11 girls =  $11 \times 12 = 132$

Average age (in years) of all boys and girls

=  $(84 + 132) / (6 + 11)$

=  $216/17$

= 12.7 years

29. Two pipes can fill a cistern in 3 hours and 4 hours respectively and a waste pipe can empty it in 2 hours. If all the three pipes are kept open, then the cistern will be filled in?

a) 5 hour

b) 8 hour

c) 10 hour

d) 12 hour

Answer: D

Let the two pipes and waste pipes be A, B and C respectively,

A pipe fills a cistern in one hour =  $1/3$

B pipe fills a cistern in one hour =  $1/4$

C pipe empty a cistern in one hour =  $1/2$

Part of cistern filled in 1 hour =  $1/3 + 1/4 - 1/2$

=  $(4 + 3 - 6)/12 = 1/12$

Hence, the cistern will be filled in 12 hour.

30. The first odd number is 1, the second odd number is 3 and the third odd number is 5 and so on. The 200<sup>th</sup> odd number is?

a) 399

b) 421

c) 357

d) 599

Answer: A

First odd number = 1

Second odd number = 3

Third odd number = 5

$n^{\text{th}}$  odd number =  $1 + (n - 1) \times 2 = 2n - 1$

200<sup>th</sup> odd number =  $2 \times 200 - 1 = 400 - 1 = 399$

### Logical Reasoning

1. Based on the analogy given, find the missing word from the given options.

Horse : Stable :: Snake : ?

a) Coop

b) Hole

c) Tunnel

d) Burrow

Answer: B

Animal – Home

2. Introducing to a girl a boy said, “She is the daughter of the father of my maternal aunt”. How is the girl related to the boy?

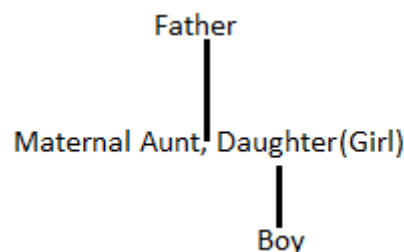
a) Mother

b) Cousin

c) Sister

d) Paternal Aunt

Answer: A



3. Find the ODD one out from the given options.

a) 49

b) 71

c) 41

d) 67

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Answer: A

All numbers except '49' are prime numbers.

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

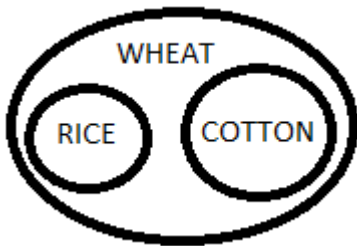
**Statements:**

- I. All rice is wheat.
- II. All cotton is wheat.

**Conclusions:**

- I. Some rice is cotton.
- II. Some cotton is wheat.
- 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: A



- I. Some rice is cotton. - False
- II. Some cotton is wheat. - True

5. Statement and their conclusions are given below.

**Statement:**

The Minister questioned the utility of space research programme and suggested its replacement by other areas of felt national needs.

**Conclusion:**

I. Exploring the space does not contribute to critical national needs.

II. Research should be oriented to national needs.

Choose the correct option.

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

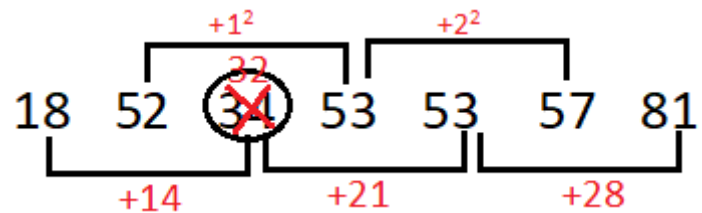
Answer: C

6. Select the wrong term in the series.

18, 52, 34, 53, 53, 57, 81

- a) 34
- b) 53
- c) 57
- d) 52

Answer: A



34 is the wrong term. It will be 32.

7. Arrange the following words in a logical and meaningful order.

- 1. Trillion
- 2. Thousand
- 3. Billion
- 4. Hundred
- 5. Million

- a) 4, 5, 2, 3, 1
- b) 4, 2, 3, 5, 1
- c) 4, 3, 5, 2, 1
- d) 4, 2, 5, 3, 1

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Answer: D

- 4. Hundred
- 2. Thousand
- 5. Million
- 3. Billion
- 1. Trillion

8. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(15, 307, 23)

- a) (34, 289, 12)
- b) (56, 1298, 21)
- c) (13, 287, 25)
- d) (27, 894, 19)

Answer: C

(15, 307, 23) → (15 × 23) – (15 + 23) = 307

Similarly,

(13, 287, 25) → (13 × 25) – (13 + 25) = 287

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

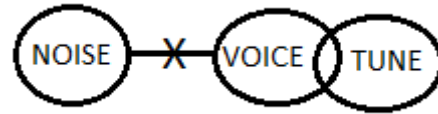
**Statements:**

- I. Some voice are tune.
- II. No noise is voice.

**Conclusions:**

- I. Some tune is not noise.
- II. Some voice is not noise.
- 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: A



- I. Some tune is not noise. - False
- II. Some voice is not noise. - True

10. Based on the analogy given, find the missing number from the given options.

234 : 70 :: 546 : ?

- a) 328
- b) 543
- c) 788
- d) 648

Answer: A

234 : 70 → (2<sup>3</sup> + 3<sup>3</sup> + 4<sup>3</sup>) – (2<sup>2</sup> + 3<sup>2</sup> + 4<sup>2</sup>) = 99 – 29 = 70

Similarly,

546 : ? → (5<sup>3</sup> + 4<sup>3</sup> + 6<sup>3</sup>) – (5<sup>2</sup> + 4<sup>2</sup> + 6<sup>2</sup>) = 405 – 77 = 328

11. An assertion (A) and a reason (R) are given below.

**Assertion (A):** Roughage prevents constipation.

**Reason (R):** Roughage adds bulk to the food.

Choose the right option.

- a) A is true but R is false.
- b) A is false but R is true.
- c) A and R both are true and R is the correct explanation of A.
- d) A and R both are true and R is not the correct explanation of A.

Answer: C

12. Select the number that can replace the question mark (?) in the following series.

625, 264, 489, 368, ?



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- a) 417
- b) 614
- c) 512
- d) 343

Answer: A

$$625 - 19^2 = 264$$

$$264 + 15^2 = 489$$

$$489 - 11^2 = 368$$

$$368 + 7^2 = 417$$

13. A statement followed by two arguments is given below.

**Statement:**

Should a total ban be put on trapping wild animals?

**Arguments:**

- I. Yes. Trappers are making a lot of money.
- II. No. Bans on trapping and hunting are not effective.

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

Answer: D

14. Find the ODD one out from the given options.

- a) Chlorine
- b) Fluorine
- c) Bromine
- d) Helium

Answer: D

All words except 'Helium' are Halogens, while 'Helium' is a Noble gas.

15. If  $7\#6 = 84$ ,  $1\#4 = 8$  and  $2\#3 = 12$ , then find the value of  $8\#4 = ?$

- a) 64
- b) 36
- c) 12
- d) 40

Answer: A

$$7\#6 \rightarrow (7 \times 6) \times 2 \rightarrow 42 \times 2 = 84$$

$$1\#4 \rightarrow (1 \times 4) \times 2 \rightarrow 4 \times 2 = 8$$





$$2\#3 \rightarrow (2 \times 3) \times 2 \rightarrow 6 \times 2 = 12$$

Similarly,

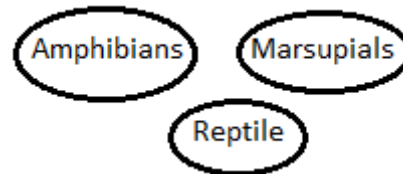
$$8\#4 \rightarrow (8 \times 4) \times 2 \rightarrow 32 \times 2 = 64$$

16. Identify the diagram that best represents the relationship among the given classes.

Amphibians, Marsupials, Reptile

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

Answer: C



17. Statement and their conclusions are given below.

**Statement:**

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The interview panel may select a candidate who neither possess the desired qualifications nor the values and attributes.

**Conclusion:**

- I. The inclusion of specialists on the interview panel does not guarantee that the selection will be proper.
- II. The interview test has certain limitations in the matter of selection of candidates.

Choose the correct option.

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

Answer: C

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

**Statement:**  $M > N \geq K = P \geq H > L > I$

**Conclusions:**

- I.  $M > H$
- II.  $I < K$

Choose the correct option.

- a) Only I is true.
- b) Only II is true.
- c) Both I and II are true.
- d) Either I or II is true.

Answer: C

I.  $M > H \rightarrow$  True (As,  $M > N \geq K = P \geq H \rightarrow M > H$ )

II.  $I < K \rightarrow$  True (As,  $K = P \geq H > L > I \rightarrow I < K$ )

19. An assertion (A) and a reason (R) are given below.

**Assertion (A):** Legumes revives the soil fertility.

**Reason (R):** Microbes in the root nodules of legumes fix the atmospheric nitrogen.

Choose the right option.

- a) A is true but R is false.
- b) A is false but R is true.
- c) A and R both are true and R is the correct explanation of A.
- d) A and R both are true and R is not the correct explanation of A.

Answer: C

20. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$10 \div 18 + 25 \times 20 - 5 = 92$$

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

Answer: C

$$10 \div 18 + 25 \times 20 - 5$$

$$\begin{aligned} &= 10 - 18 + 25 \times 20 \div 5 \\ &= 10 - 18 + 100 \\ &= 110 - 18 \\ &= 92 \end{aligned}$$

21. Find the odd one out.

- a) ADLF
- b) TWDX
- c) HTYU
- d) BEMG

Answer: C

- a) ADLF –  $A + 3 = D$ ;  $D + 8 = L$ ;  $L - 6 = F$
- b) TWDX –  $T + 3 = W$ ;  $W + 8 = D$ ;  $D - 6 = X$
- c) HTYU –  $H + 3 = K$ ;  $K + 8 = S$ ;  $S - 6 = M$
- d) BEMG –  $B + 3 = E$ ;  $E + 8 = M$ ;  $M - 6 = G$

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22. In a certain code is "HATCH" written as '5#325' and "TRAP" is written as '38#%'. How is 'PATCH' written in that code?

- a) %5#23
- b) #5%32
- c) %5#33
- d) %#325

Answer: D

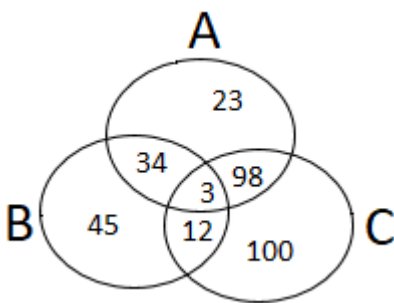
H	A	T	C	H
5	#	3	2	4

T	R	A	P
3	8	#	%

Similarly,

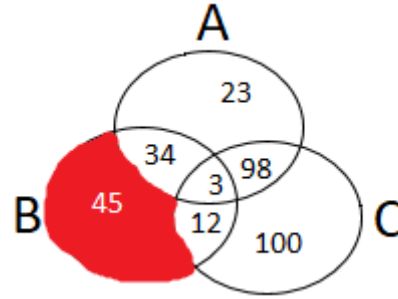
P	A	T	C	H
%	#	3	2	5

23. In the Venn diagram given below, how many such B's are there that are neither A nor C?



- a) 37
- b) 45
- c) 49
- d) 57

Answer: B



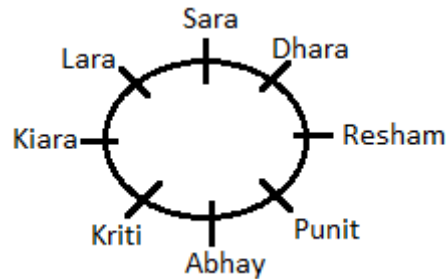
**Direction (24 – 25):** Read the given information carefully and answer the questions based on it.

Eight friends – Sara, Resham, Abhay, Kriti, Dhara, Kiara, Punit and Lara are sitting around a circular table facing the centre. Kiara is facing Resham who is third to the right of Kriti. Sara is sitting between Lara and Dhara. Neither Abhay nor Lara is adjacent to Resham.

24. Who is facing Sara?

- a) Lara
- b) Dhara
- c) Abhay
- d) Punit

Answer: C

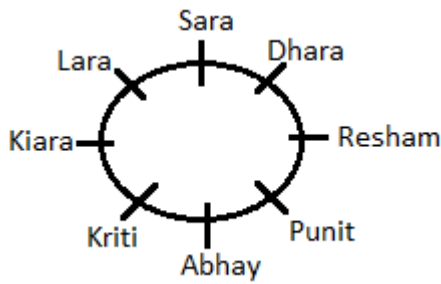


25. Which of the following pairs shows the persons adjacent to Punit?

- a) Sara, Resham
- b) Resham, Abhay
- c) Kriti, Abhay
- d) Kiara, Resham

Answer: B

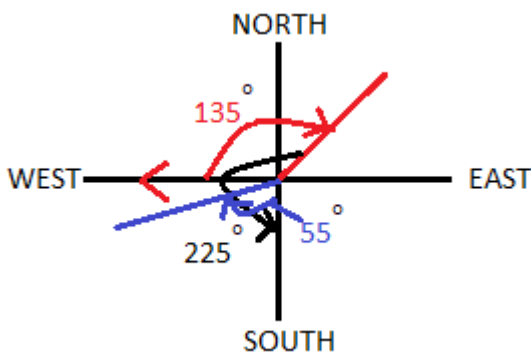
**RRB NTPC Memory Based Model Paper Based on Feb 08 Exam**



26. Aman is facing west. He moved  $135^\circ$  in clockwise direction, then  $225^\circ$  in anti-clockwise direction and finally he turned  $55^\circ$  in clockwise direction. Which direction is he facing now?

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

Answer: B



27. A statement followed by two arguments is given below.

**Statement:**

Should agriculture in rural India be mechanized?

**Arguments:**

- I. Yes. It would lead to higher production.
- II. No. Many villagers would be left unemployed.

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

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Answer: A

28. In a certain code language, 'x' represents '+', '+' represents 'x', '-' represents '÷' and '÷' represents '-'. Find out the answer to the following question.

$$18 - 2 + 20 \times 10 \div 4 = ?$$

- a) 11
- b) 2
- c) 29
- d) 35

Answer: C

x	÷	-	+
+	x	÷	-

$$18 - 2 + 20 \times 10 \div 4 = ?$$

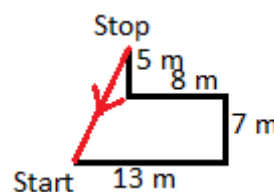
After replacing the symbols, we get:

$$\begin{aligned} 18 \div 2 - 20 + 10 \times 4 &= \\ = 9 - 20 + 10 \times 4 &= \\ = 9 - 20 + 40 &= \\ = 49 - 20 &= \\ = 29 & \end{aligned}$$

29. Ravi started from his house and walked 13m east, then he takes a left and walked 7m. Then again he takes a left and walks 8m. He finally takes right and walked 5m. In which direction is his starting point with respect to the point where he stopped?

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

Answer: B



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30. In a certain code, 'RAINBOW' is written as 'BOWNRAI'. How is ' ' written in that code?

- a) ANYMGER
- b) AYNMGER
- c) ANYMEGR
- d) AMNYGER

Answer: A

R A I N B O W

B O W N R A I

Similarly,

G E R M A N Y

A N Y M G E R

**General Awareness**

1) Name the Director-General of the World Trade Organization who resigned recently.

- a) Mike Moore
- b) Pascal Lamy
- c) Roberto Azevedo
- d) Peter Sutherland

Answer: c)

The Director-General of the World Trade Organization is the officer of the World Trade Organization responsible for supervising and directing the organization's administrative operations.

The head of the World Trade Organization, Roberto Azevedo stepped down from his post on August 31,2020. He became the WTO chief in 2013.

2) Who among the following was the first Chairman of ISRO?

- a) M.G.K. Menon
- b) Vikram Sarabhai
- c) Satish Dhawan
- d) U. R. Rao

Answer: b)

The Chairman of the Indian Space Research Organisation is the highest-ranked official of the Indian Space Research Organisation (ISRO). The Indian National Committee for Space Research (INCOSPAR) was founded in 1962 under Department of Atomic Energy (DAE) with Vikram Sarabhai as its chairperson which in 1969 became ISRO.

3) What is the full form of FTTP?

- a) Fiber to the premises
- b) File to the procedure
- c) File to the protocol
- d) Fiber to the programmer

Answer: a)

Fiber to the premises (FTTP) is a form of fiber-optic communication delivery, in which an optical fiber is run in an optical distribution network from the central office all the way to the premises occupied by the subscriber. It aims to provide high-speed broadband access.

4) 'Ignited Minds' is a book authored by whom?

- a) Pranab Mukherjee
- b) Manmohan Singh
- c) A.P.J. Abdul Kalam
- d) K. R. Narayanan

Answer: c)

## RRB NTPC Memory Based Model Paper Based on Feb 08 Exam

Ignited Minds: Unleashing the Power Within India is a book written by A. P. J. Abdul Kalam, who was the President of India from 2002 to 2007. This book consists of many inspirational messages by A P J Abdul Kalam.

5) Meghaduta is a lyric poem written by\_\_\_\_\_.

- a) Bhasa
- b) Tulsidas
- c) Bhavabhuti
- d) Kalidasa

Answer: d)

Meghaduta is a lyric poem written by Kalidasa who is considered to be one of the greatest Sanskrit poets. The poem become well-known in Sanskrit literature and inspired other poets to write similar poems on similar themes.

6) Which of the following commission was formed after the incidence of Jallianwala Bagh Massacre?

- a) Reading commission
- b) Montague commission
- c) Hunter commission
- d) Simon commission

Answer: c)

A Committee named Hunter Committee was set up to investigate the Jallianwala Bagh incident. It was led by Lord William Hunter and assisted by five Englishmen and four Indians.

7) International Day of Clean Air for blue skies is observed on\_\_\_\_\_.

- a) 7<sup>th</sup> September
- b) 2<sup>nd</sup> April
- c) 4<sup>th</sup> March

d) 9<sup>th</sup> August

Answer: a)

United Nations designated 7 September as the International Day of Clean Air for blue skies. It emphasizes the need to make efforts to improve air quality, reducing air pollution, to protect human health.

8) Mahatma Gandhi National Rural Employment Guarantee Scheme, (MNREGA) offers how many days of unskilled manual labor per year?

- a) 50 days
- b) 120 days
- c) 100 days
- d) 150 days

Answer: c)

Mahatma Gandhi Employment Guarantee Act 2005 is an Indian labour law and social security measure that aims to guarantee the 'right to work'. This act was passed in September 2005 under the UPA government of Prime Minister Dr. Manmohan Singh. It aims to enhance livelihood security in rural areas by providing at least 100 days of wage employment in a financial year.

9) During the Champaran Movement in Bihar, farmers were forced by Britishers to grow which plant?

- a) Barley
- b) Indigo
- c) Jute
- d) Opium

Answer: b)

During the Champaran movement, Indigo was forcibly grown by the British in North India since 1750 to extract opium for the British trade to China, and thence smuggled to USA. When Gandhiji returned to India from South Africa

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in 1915 and saw peasants in Northern India oppressed by indigo planters, he tried to use the same methods that he had used in South Africa to organize mass uprisings by people to protest against injustices.

10) Which among the following replaced Planning Commission in India?

- a) NITI Aayog
- b) National Human Rights Commission of India
- c) Knowledge Commission
- d) Competition Commission of India

Answer: a)

The NITI Aayog is a policy think tank of the Government of India. It was established in 2015, by the NDA government, to replace the Planning Commission.

11) Kolkata port is located on which river?

- a) Hooghly
- b) Teesta
- c) Damodar
- d) Padma

Answer: a)

Kolkata Port officially known as Syama Prasad Mookerjee Port Trust, is the only riverine major port of India located in the city of Kolkata, West Bengal. It is situated on Hooghly river. It is the oldest operating port in India and was constructed by the British East India Company.

12) What is the scientific name of Mango?

- a) Pyrus malus
- b) Mangifera indica
- c) Punica granatum
- d) Cucumis melo

Answer: b)

Mangifera indica also known as mango has been an important herb in the Ayurvedic and indigenous medical systems. It belong to genus Mangifera which consists of about 30 species of tropical fruiting trees in the flowering plant family Anacardiaceae.

13) Angel Falls is located in which country?

- a) Croatia
- b) Venezuela
- c) Iceland
- d) Guyana

Answer: b)

Angel Falls is a waterfall in Venezuela. It is the world's highest uninterrupted waterfall. Located in Canaima National Park, it is the second largest national park in Venezuela.

14) 'Bhutia' is a tribe of which Indian state?

- a) Himachal Pradesh
- b) Bihar
- c) Assam
- d) Sikkim

Answer: d)

The Bhutia are a community of Sikkimese people of Tibetan ancestry. The language spoken by the Bhutias in Sikkim is Sikkimese. They are spread out over Sikkim, Bhutan, and Nepal and districts of Kalimpong and Darjeeling in India.

15) Which part of Indian constitution deals with The Union and Its territories?

- a) Part V
- b) Part III
- c) Part II

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d) Part I

Answer: d)

Part I-The Union and Its territories is a compilation of laws pertaining to the constitution of India as a country and the union of states that it is made of. This part of the constitution contains the law in the establishment, renaming, merging or altering the borders of the states or union territories.

16) Treaty of Allahabad was signed in which year?

- a) 1762
- b) 1765
- c) 1788
- d) 1771

Answer: b)

The Treaty of Allahabad was signed on 12 August 1765, between the Mughal Emperor Shah Alam II, son of the late Emperor Alamgir II, and Robert Clive, of the East India Company, in the aftermath of the Battle of Buxar of 22 October 1764. It marked the political and constitutional involvement and the beginning of British rule in India.

17) General Dyer, who was responsible for Jallianwala Bagh Massacre was shot dead by whom?

- a) Vir Sarvakar
- b) Bhagat Singh
- c) Jatin Das
- d) Udham Singh

Answer: d)

Udham Singh was a revolutionary belonging to the Ghadar Party best known for his assassination in London of Michael O' Dwyer, the former lieutenant governor of the Punjab in India, on 13 March 1940. The assassination was

in revenge for the Jallianwala Bagh massacre in Amritsar in 1919.

18) Sultan Azlan Shah Cup 2019 was won by which country?

- a) Japan
- b) Poland
- c) India
- d) South-Korea

Answer: d)

The 2019 Sultan Azlan Shah Cup was the 28th edition of the Sultan Azlan Shah Cup. It was held in Ipoh, Malaysia. South Korea won the tournament for the third time after defeating India in the final.

19) Which one of the following is the landlocked country of South-America?

- a) Bolivia
- b) Paraguay
- c) Guyana
- d) Both a and b

Answer: d)

South America is the fourth largest continent in the world and has twelve sovereign countries and two non-sovereign areas. Of these countries in South America there are two countries that are landlocked: Bolivia and Paraguay.

20) Who received 2020 Noble Prize in Physiology or Medicine for their discovery of Hepatitis C virus?

- a) Harvey Alter
- b) Michael Houghton
- c) Charles Rice
- d) All of the above



## RRB NTPC Memory Based Model Paper Based on Feb 08 Exam

Answer: d)

The Nobel Prize in physiology or medicine was awarded jointly to Dr Harvey J Alter, Michael Houghton and Charles M Rice for the discovery of the hepatitis C virus. It had "made possible blood tests and new medicines that have saved millions of lives." For the first time in history, the disease can now be cured, raising hopes of eradicating hepatitis C virus from the world population.

21) Who has been awarded Rashtriya Khel Protsahan Puraskar 2020 by the Ministry of Youth Affairs and Sports?

- a) Army Sports Institute
- b) Institute of Sports Science & Technology
- c) Symbiosis School of Sports Sciences
- d) Netaji Subhas National Institute of Sports

Answer: a)

The Army Sports Institute (ASI), Pune has been awarded Rashtriya Khel Protsahan Puraskar 2020 by the Ministry of Youth Affairs and Sports. The institute has made spectacular progress and given an inspired performance in international competitions including Olympics, Asian Games, Commonwealth Games and World Championships.

22) North Atlantic Treaty Organization (NATO), is headquartered in\_\_\_\_\_.

- a) Vienna, Austria
- b) Brussels, Belgium
- c) London, England
- d) Rome, Italy

Answer: b)

The North Atlantic Treaty Organization (NATO) is an intergovernmental military alliance between 30 European

and North American countries. It is headquartered in Brussels, Belgium.

23) Who is the Minister of Road Transport and Highways in 2020?

- a) Piyush Goyal
- b) Dharmendra Pradhan
- c) Arjun Munda
- d) Nitin Gadkari

Answer: d)

Nitin Jairam Gadkari is an Indian politician and businessman from Maharashtra who is the current Minister for Road Transport & Highways and the Minister of Micro, Small and Medium Enterprises in the Government of India.

24) Red Panda Winter Festival is observed in which state?

- a) Sikkim
- b) Himachal Pradesh
- c) Uttarakhand
- d) Assam

Answer: a)

Red Panda Winter Festival is one of the most awaited cultural events in Sikkim that provides for an amazing time to both locals and visitors. The festival primarily aims at increasing the influx of tourists and promote tourism.

25) National Handloom Day is observed on\_\_\_\_\_.

- a) 7<sup>th</sup> August
- b) 9<sup>th</sup> May
- c) 1<sup>st</sup> April
- d) 6<sup>th</sup> December

Answer: a)

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National Handloom Day is observed on 7 August. It is celebrated on the day Swadeshi Movement was launched in 1905. This day is observed annually to create awareness about Handloom Industry amongst the public at large and its contribution to the socio-economic development.

26) Who is considered as the Father of Biology?

- a) Aristotle
- b) Archie Carr
- c) Johann Hedwig
- d) Theophrastus

Answer: a)

Aristotle is known as the Father of Biology. He was born in 384 BC. In the 4th century BC, Aristotle travelled to Lesbos filled with wildlife. His fascination with what he found there and his fascination is what led to the birth of a new science known as Biology.

27) Which is the first synthetic fiber made by man?

- a) Rayon
- b) Linen
- c) Nylon
- d) Polyester

Answer: c)

Nylon is the first synthetic man-made fiber. It was developed by Wallace Carothers, an American researcher at the chemical firm DuPont in the 1930s. It is used for a variety of applications.

28) Which state is the largest producer of mica?

- a) Andhra Pradesh
- b) Odisha
- c) Kerala

d) Telangana

Answer: a)

Andhra Pradesh is the largest producer of mica. Nellore district of Andhra Pradesh is famous for its mica (crude) production. On the other hand, mica (waste and scrap) is largely produced by the states of Andhra Pradesh, Rajasthan, Bihar, and Jharkhand.

29) If the elements are arranged in order of increasing atomic masses, every eight elements has properties similar to the first. This is known as-

- a) Lothar's law of octaves
- b) Mendeleev's law
- c) Newland's law of octaves
- d) Mayer's law of octaves

Answer: c)

Law of octaves, in chemistry is the generalization made by the English chemist J.A.R. Newlands in 1865.

It states that, when the elements are arranged in increasing order of their atomic masses, the properties of the eighth element are similar to that of the first.

30) \_\_\_\_\_ is the branch of biology which deals with the structure and function of the cell.

- a) Cardiology
- b) Cytology
- c) Cryobiology
- d) Bryology

Answer: b)

Cytology is a branch of biology studying the structure and function of the cell, which is also known as the basic unit of life.

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31) Which one of the following is NOT included in Seven Sister States?

- a) Arunachal Pradesh
- b) Assam
- c) Meghalaya
- d) Sikkim

Answer: d)

The Seven Sister States is a popular term for the contiguous states of Arunachal Pradesh, Assam, Meghalaya, Manipur, Mizoram, Nagaland and Tripura prior to inclusion of the state of Sikkim into the North Eastern Region of India. Thus, option d) is correct.

32) Which is NOT the member state of SAARC?

- a) Afghanistan
- b) China
- c) Bangladesh
- d) Bhutan

Answer: b)

The South Asian Association for Regional Cooperation (SAARC) is the regional intergovernmental organization and geopolitical union of states in South Asia. Its member states are Afghanistan, Bangladesh, Bhutan, India, the Maldives, Nepal, Pakistan and Sri Lanka. It was founded in Dhaka on 8 December 1985.

33) Five kingdom of classification was proposed by whom?

- a) Eugen Stainak
- b) R.H. Whittaker
- c) Willem Einthoven
- d) Sewall Wright

Answer: b)

R.H. Whittaker proposed the five-kingdom classification in 1969. This classification was based upon certain characters like mode of nutrition, thallus organization, cell structure, phylogenetic relationships and reproduction. This form of kingdom classification includes five kingdoms Monera, Protista, Fungi, Plantae and Animalia.

34) Under Morley-Minto Reforms, 1909 the seats were reserved for which of the following community?

- a) Hindus
- b) Sikhs
- c) Jews
- d) Muslims

Answer: d)

The Indian Councils Act 1909 commonly known as the Morley-Minto Reforms, was an Act of the Parliament of the United Kingdom that brought about a limited increase in the involvement of Indians in the governance of British India. A momentous introduction in the reforms were the separate electorates where seats were reserved for Muslims and in which only Muslims would be polled. Minto welcomed their 'representative character' and acknowledged and promoted the separate Muslim politics.

35) Who among the following was the court poet of Harshvardhana?

- a) Banabhatta
- b) Kalidasa
- c) Chand Bardai
- d) Bhavabhuti

Answer: a)

Banabhatta was the court poet of Harshavardhana, who wrote Harshacharita and Kadambari. Harshacharita is an

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important historical work narrated the incidents of the earlier part of Harsha's reign.

36) Who was the recipient of Nobel Peace Prize 2018?

- a) Nadia Murad
- b) Denis Mukwege
- c) Abiy Ahmed
- d) Both a and b

Answer: d)

The Nobel Peace Prize 2018 was awarded jointly to Denis Mukwege and Nadia Murad "for their efforts to end the use of sexual violence as a weapon of war and armed conflict."

37) Who is the author of Abhigyan Shakuntalam?

- a) Bhasa
- b) Tulsidas
- c) Bhavabhuti
- d) Kalidasa

Answer: d)

Mahakavi Kalidas wrote Abhigyan Shakuntalam nearly 2,500 years ago. It is regarded as best of Kalidasa's works.

38) UNESCO, a specialised agency of the United Nations is headquartered in\_\_\_\_\_.

- a) Geneva, Switzerland
- b) Paris, France
- c) London, United Kingdom
- d) Vienna, Austria

Answer: b)

The United Nations Educational, Scientific and Cultural Organization is a specialised agency of the United Nations (UN) aimed at promoting world peace and security through international cooperation in education, the sciences, and culture. It is headquartered in Paris, France.

39) What is the full form of BHEL?

- a) Bharat Heavy Electricals Limited
- b) Bharat Heavy Electric Limited
- c) Bharat Heavy Electronic Limited
- d) Bharat Heavy Enginner Limited

Answer: a)

BHEL stands for Bharat Heavy Electricals Limited. It is one of the oldest and largest engineering and manufacturing company in India. It is primarily a manufacturer of power plant equipment. BHEL was established in 1964.


40) Which one of the following is a Semiconductor?

- a) Silver
- b) Gold
- c) Copper
- d) Silicon

Answer: d)

A semiconductor material has an electrical conductivity value falling between that of a conductor, such as metallic copper, and an insulator, such as glass. Some examples of semiconductors are silicon, germanium, gallium arsenide etc.

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