

RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 2 Exam



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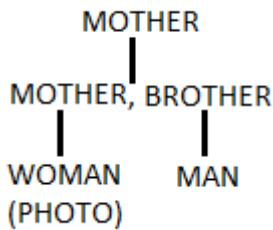
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Logical Reasoning

1. Pointing to a woman in a photograph a man says, "Her mother's mother is the mother of my father". How is the man related to the woman in the photograph?

- a) Sibling
- b) Cousin
- c) Niece
- d) Nephew

Answer: B



2. If + means -, - means ×, × means ÷ and ÷ means +, then $16 \div 4 \times 2 - 5 + 8 = ?$

- a) 10
- b) 16
- c) 18
- d) 26

Answer: C

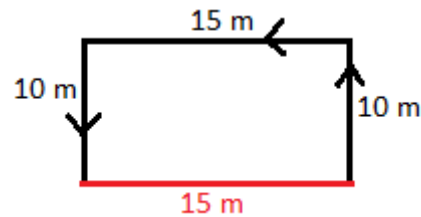
+	-	×	÷
-	×	÷	+

$$\begin{aligned}
 &16 \div 4 \div 2 \times 5 - 8 = ? \\
 &= 16 \div 10 - 8 \\
 &= 26 - 8 \\
 &= 18
 \end{aligned}$$

3. Torun walked 10 m towards north, took a left turn and walked 15 m and again took a left turn and walked 10 m and stopped walking. How far is he from his initial point?

- a) 10 m
- b) 15 m
- c) 20 m
- d) 25 m

Answer: B



4. Which one of the following does not belong to the group?

- a) Strawberry
- b) Tomato
- c) Grapes
- d) Pear

Answer: B

All options except 'tomato' are used as fruit. Tomato is used as a vegetable.

5. The average of 5 quantities is 6. The average of three of them is 8. Find the average of the remaining two quantities.

- a) 6
- b) 2
- c) 3

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d) 8

Answer: C

The average of 5 quantities is 6.

Sum of 5 quantities = $5 \times 6 = 30$

The average of three of them is 8.

Sum of 3 of them = $3 \times 8 = 24$

So, sum of remaining two quantities = $30 - 24 = 6$

The average of the remaining two quantities = $6 \div 2 = 3$

6. Find the next number in the series.

2, 5, 17, 71, 359, ?

a) 2519

b) 2159

c) 2179

d) 2719

Answer: B

$2 \times 2 + 1 = 5$

$5 \times 3 + 2 = 17$

$17 \times 4 + 3 = 71$

$71 \times 5 + 4 = 359$

$359 \times 6 + 5 = 2159$

7. If Soldier : Army, then Pupil : _____.

a) Education

b) Teacher

c) Student

d) Class

Answer: D

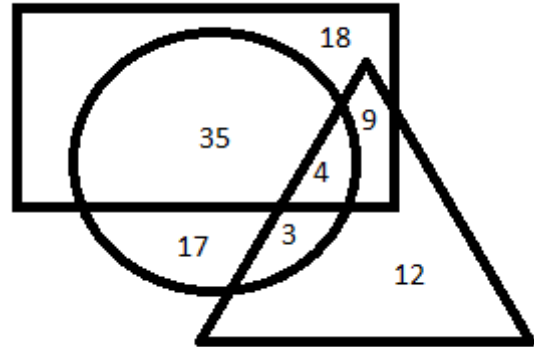
A soldier is a part of a big group of similar people collectively termed as army.

Similarly,

A pupil is a part of a big group of students who are generally referred to as class.

Directions (8 - 10): Consider the following information and answer the questions based on it.

In the given diagram, the triangle represents flat owners, the rectangle represents hotel owners and the circle represents building owners.



8. How many building owners have hotels?

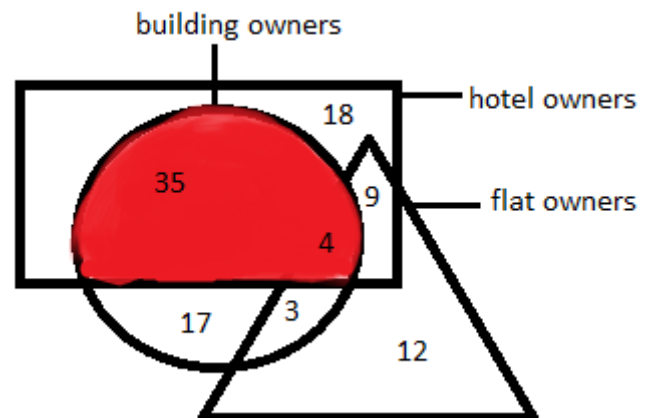
a) 35

b) 4

c) 31

d) 39

Answer: D



Building owners who have hotels = $35 + 4 = 39$

9. How many persons have only flat?

a) 12

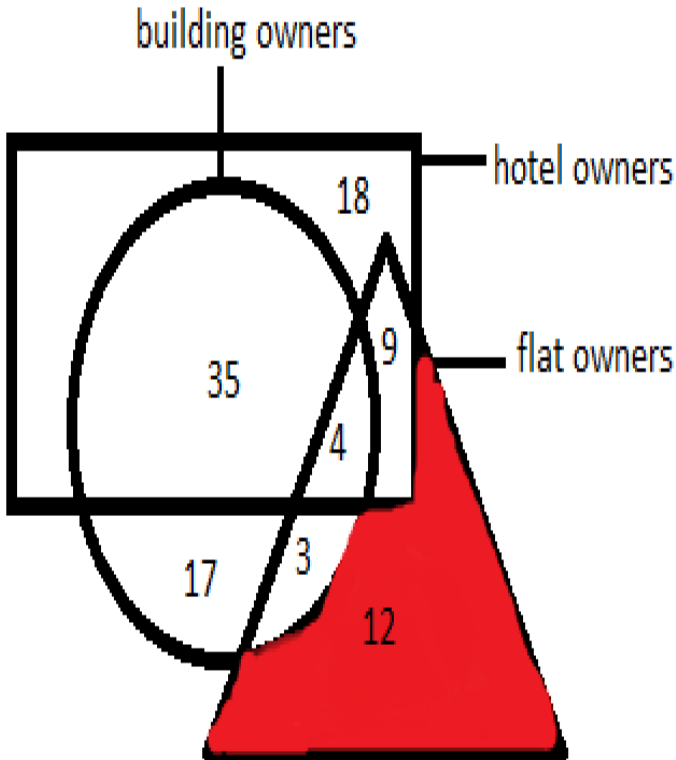
b) 21

c) 28

d) 19

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Answer: A

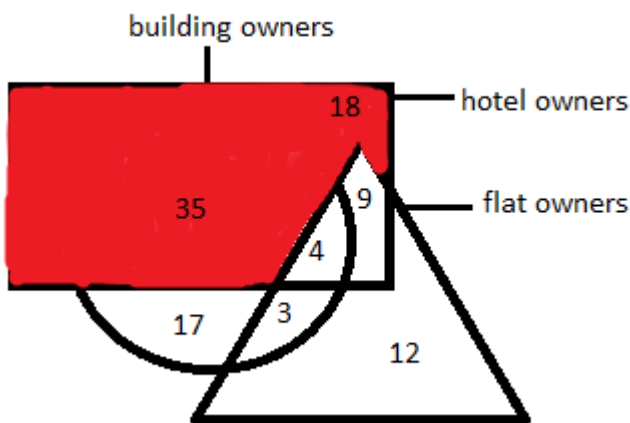


12 persons have only flat.

10. How many hotel owners do not have flat?

- a) 18
- b) 53
- c) 35
- d) 57

Answer: B



Hotel owners those who do not have flat = $35 + 18 = 53$

11. In this question, a statement is given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

Mohan is illiterate. Therefore he cannot write. Thus we can say that.

Conclusions:

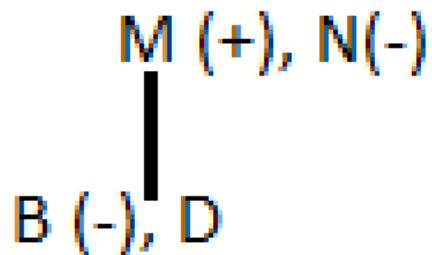
- a) Some illiterate persons can write.
- b) Only some illiterate persons can write.
- c) All illiterate persons cannot write.
- d) Some literate persons are also incapable to write.

Answer: C

12. B is sister of D. M is father of D. N is sister of M. How is B related to N?

- a) Nephew
- b) Niece
- c) Aunt
- d) Uncle

Answer: B



13. If BEFORE is coded as FEBORE, then REMOTE will be coded as ____.

- a) MERTO E
- b) MEROTE
- c) MEORTE
- d) MREOTE

Answer: B

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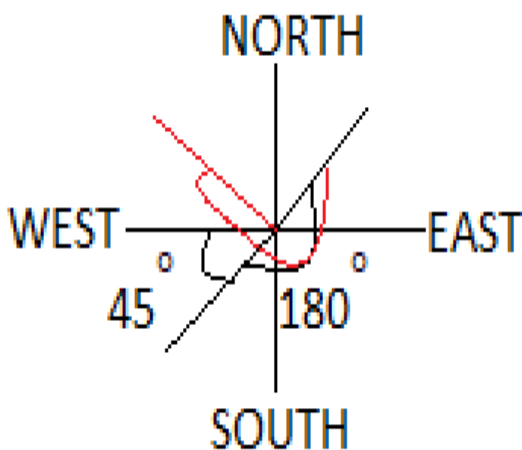
B E F O R E
F E B O R E

R E M O T E
M E R O T E

14. A man is facing towards west and turns through 45° anti-clockwise, again 180° anti-clockwise and then turns 270° clockwise. In which direction is he facing now?

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

Answer: B



Red colour shows 270° anticlockwise.

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

Statement:

- I. Some persons are educated.
- II. Educated persons prefer small families.

Conclusions:

- I. All small families are educated.
- II. Some persons prefer small families.

Find which of the following conclusions logically follows from the given statements.

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

Answer: C

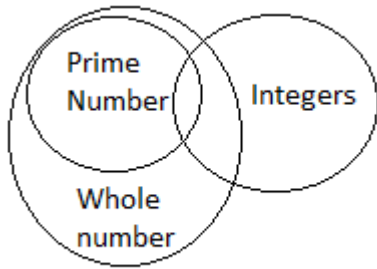
16. Identify the diagram that best represents the relationship among the given classes.

Prime Number, Whole Number, Integers

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

Answer: D

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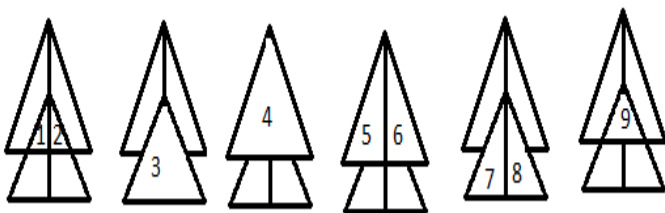
All prime numbers are whole numbers.
Some whole numbers and prime numbers are integers.

17. How many triangles are there in the figure given below?



- a) 9
- b) 10
- c) 11
- d) 12

Answer: A



18. How many such pairs of letters are there in the word TITANIUM which have as many letters between them as in the English alphabetical series?

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

Answer: B

T I T A N I U M
20 9 20 1 14 9 21 13

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

Assertion (A): Work done by friction on a body sliding down an inclined plane is positive.

Reason (R): Work is greater than zero, if angle between force and displacement is acute or both are in the same direction.

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

Answer: D

20. The statements below are followed by two conclusions labelled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

No sugar is sweet

Some sweet are not sour

Conclusion:

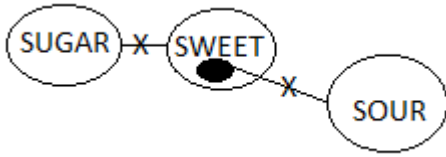
I. Some sour are not sweet

II. No sour is sugar

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

Answer: B

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- I. Some sour are not sweet - False
- II. No sour is sugar - False

21. Select the odd one out.

- a) Nitrogen : Air
- b) Hydrogen : Water
- c) Uranium : Coins
- d) Sulphur : Match Stick

Answer: C

Second one is made up of the first one.

Uranium : Coins does not follows the same relation.

22. Ratio of age of Maya and Shikha was 5 : 9 before 3 years. After 5 years it becomes 3 : 5. Find the present age of Maya.

- a) 8
- b) 16
- c) 32
- d) 48

Answer: D

According to question:

$$\frac{5x + 8}{9x + 8} = \frac{3}{5}$$

$$\Rightarrow 25x + 40 = 27x + 24$$

$$\Rightarrow 40 - 24 = 27x - 25x$$

$$\Rightarrow 16 = 2x$$

$$\Rightarrow 8 = x$$

Present age of Maya = $5x + 8$

$$= 5 \times 8 + 8$$

$$= 48$$

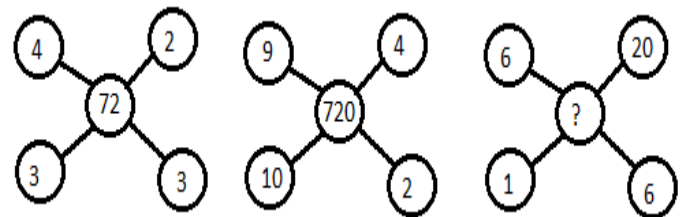
23. Arrange the given words in a logical and meaningful sequence.

1. Poverty
 2. Population
 3. Death
 4. Unemployment
 5. Disease
- a) 2, 5, 1, 4, 3
 - b) 2, 1, 4, 5, 3
 - c) 2, 4, 1, 5, 3
 - d) 2, 4, 5, 1, 3

Answer: C

2. Population
4. Unemployment
1. Poverty
5. Disease
3. Death

24. Find the missing number.



- a) 360
- b) 120
- c) 720
- d) 180

Answer: C

$$4 \times 2 \times 3 \times 3 = 72$$

$$9 \times 4 \times 2 \times 10 = 720$$

$$6 \times 20 \times 6 \times 1 = 720$$

25. The statements below are followed by two conclusions labelled I and II. Assuming that the information in the

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statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

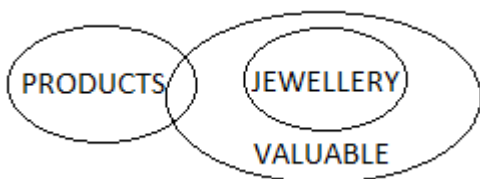
Statements:

- I. Some products are valuable
- II. All jewellery is valuable

Conclusions:

- I. Some products are jewellery
 - II. No valuable is product
- a) Only conclusion I follows
 - b) Neither conclusion I nor II follows
 - c) Both conclusions I and II follow
 - d) Only conclusion II follows

Answer: B



- I. Some products are jewellery - False
- II. No valuable is product - False

26. Select the odd one out.

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

Answer: A

Image in option is divided into two parts only, while others are divided into four parts.

27. There are 25 girls in a horizontal row. Amrita was shifted three places to her right and now she occupies the middle position in the row. What was her original position from the left end of the row?

- a) 13
- b) 16
- c) 14
- d) 10

Answer: D

$$\text{Rank of middle most position} = (25 + 1) \div 2 = 13$$

$$\text{Her original position} = 13 - 3 = 10$$

Direction (28 – 30): Consider the following information and answer the questions based on it.

Five persons A, B, C, D and E from five different countries USA, UK, Japan, China and Canada have five different professions viz. Doctor, Lecturer, Lawyer, Engineer and Tailor.

A is a Doctor but he is not from UK. B is not a Lawyer and C is not a Tailor. The person who is from China is a Tailor. D is the Lecturer. B is not from China. C is from UK and D is not from Canada. The Doctor lives in USA.

28. Who among the following lives in Japan?

- a) Lecturer
- b) A
- c) E
- d) Engineer

Answer: A

Name	Profession	Country
A	Doctor	USA
B	Engineer	Canada

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C	Lawyer	UK
D	Lecturer	Japan
E	Tailor	China

29. The person who lives in Canada is a/an _____ by profession.

- a) Lawyer
- b) Engineer
- c) Lawyer
- d) Lecturer

Answer: B

Name	Profession	Country
A	Doctor	USA
B	Engineer	Canada
C	Lawyer	UK
D	Lecturer	Japan
E	Tailor	China

30. A is from which country?

- a) USA
- b) Canada
- c) Japan
- d) China

Answer: A

Name	Profession	Country
A	Doctor	USA
B	Engineer	Canada
C	Lawyer	UK
D	Lecturer	Japan
E	Tailor	China

Mathematics

1. Amit and Sumit can plough a field in 4 days. Sumit alone can plough the field in 6 days. In how many days will Amit alone plough the field?

- a) 10 days
- b) 12 days
- c) 14 days
- d) 15 days

Answer: B

Amit and Sumit one day work = $\frac{1}{4}$

Sumit one day work = $\frac{1}{6}$

Amit one day work = $\frac{1}{4} - \frac{1}{6}$

= $(3 - 2)/12$

= $1/12$

Amit complete the work in 12 days.

2. If X, Y and Z complete a work in 6 days. X or Y alone can do the same work in 16 days, then in how many days Z alone can finish the same work?

- a) 12
- b) 16
- c) 24
- d) 36

Answer: C

(X + Y + Z)'s one day work = $\frac{1}{6}$

(X + Y)'s one day work = $\frac{1}{16} + \frac{1}{16}$

= $\frac{2}{16}$

= $\frac{1}{8}$

Z's one day work = $\frac{1}{6} - \frac{1}{8}$

= $(4 - 3)/24$

= $\frac{1}{24}$

Z alone can finish the work in 24 days.

3. If $x + y = 12$ and $xy = 32$, then find the value of $x^2 + y^2$.

- a) 24
- b) 144

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c) 128

d) 80

Answer: D

$$(x + y) = 12$$

On squaring we get,

$$(x + y)^2 = 12^2$$

$$x^2 + y^2 + 2xy = 144$$

$$x^2 + y^2 + 2 \times 32 = 144$$

$$x^2 + y^2 + 64 = 144$$

$$x^2 + y^2 = 144 - 64$$

$$x^2 + y^2 = 80$$

4. Which of the following numbers is completely divisible by 99?

a) 51579

b) 51557

c) 55036

d) 49984

Answer: A

By simple division only 51579 is divisible by 99.

5. What is the length of the arc whose central angle is 30° and radius of the circle is 21 cm?

a) 22 cm

b) 16.5 cm

c) 28.5 cm

d) 11 cm

Answer: D

$$\text{Length of the arc (s)} = r \times \theta = 21 \times 30^\circ = 21 \times \frac{\pi}{6} = 21 \times \frac{22}{7} \times \frac{1}{6} = 11 \text{ cm}$$

6. The sum of non-zero number and its reciprocal is 2.

What is the number?

a) 1

b) 2

c) 0

d) 4

Answer: A

Let the number be x

$$x + \frac{1}{x} = 2$$

it means $x = 1$

7. What is the value of $-\text{cosec } 150^\circ$?

a) - 2

b) $2/\sqrt{3}$

c) 2

d) $-2/\sqrt{3}$

Answer: A

$$-\text{cosec } 150^\circ$$

$$= \text{cosec } (-150^\circ)$$

$$= \text{cosec } (360^\circ - 150^\circ)$$

$$= \text{cosec } 210^\circ$$

$$= -2$$

8. The cost price of 40 articles is the same as the selling price of 25 articles. Find the gain percent.

a) 65%

b) 60%

c) 15%

d) 75%

Answer: B

According to the question,

$$40 \times \text{CP} = 25 \times \text{SP}$$

$$\text{SP/CP} = 40/25$$

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

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

$$= (40/25 - 1) \times 100$$

$$= (40 - 25)/25 \times 100$$

$$= 15/25 \times 100$$

$$= 60\%$$

9. The population of a town is 3,11,250. The ratio of women to men is 43 : 40. If there are 24% literate among

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men and 8% literate among women, the total number of literate persons in the town.

- a) 41,800
- b) 48,900
- c) 56,800
- d) 99,600

Answer: B

$$\text{Women} = 43/83 \times 311250 = 161250$$

$$\text{Men} = 311250 - 161250 = 150000$$

$$\begin{aligned} \text{Total number of literate person} &= 161250 \times 8/100 + \\ &150000 \times 24/100 \\ &= 48,900 \end{aligned}$$

10. In an examination, 52% of the candidates failed in English and 42% failed in mathematics. If 17% failed in both the subjects, then the percentage of candidates, who passed in both the subjects, was.

- a) 23
- b) 21
- c) 25
- d) 22

Answer: A

$$\begin{aligned} \text{Percentage of passed candidates} &= 100 - (52 + 42 - 17) \\ &= 100 - 77 \\ &= 23 \end{aligned}$$

11. If the diagonals of a rhombus are 8 and 6, then square of its side is.

- a) 25
- b) 55
- c) 64
- d) 36

Answer: A

$$d_1^2 + d_2^2 = 4a^2$$

$$8^2 + 6^2 = 4a^2$$

$$64 + 36 = 4a^2$$

$$100 = 4a^2$$

$$a^2 = 100/4$$

$$a^2 = 25$$

12. The volume of solid hemisphere is 19404 cm³, then find the total surface area.

- a) 2858 cm²
- b) 4158 cm²
- c) 1738 cm²
- d) 2038 cm²

Answer: B

$$\text{Volume of solid hemisphere} = 19404 \text{ cm}^3$$

$$\frac{2}{3}\pi r^3 = 19404$$

$$\frac{2}{3} \times \frac{22}{7} \times r^3 = 19404$$

$$r^3 = 9261$$

$$r = 21$$

$$\begin{aligned} \text{Total surface area of solid hemisphere} &= 3\pi r^2 \\ &= 3 \times \frac{22}{7} \times 21^2 \\ &= 4158 \text{ cm}^2 \end{aligned}$$

13. If 18 persons can build a wall 140 m long in 42 days, the number of days that 30 persons will take to complete a similar wall 100 m long is.

- a) 18 days
- b) 21 days
- c) 24 days
- d) 28 days

Answer: A

According to the question,

$$(18 \times 42)/140 = (30 \times \text{days})/100$$

$$\text{Days} = 18$$

14. The length of a rectangle is increased by 10% and breadth decreased by 10%, then find the area of the new rectangle.

- a) Increased by 1%
- b) Decreased by 1%

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c) Decreased by 10%

d) Neither decreased nor increased

Answer: B

Decreased in area = $x^2/100\% = (10)^2/100 = 1\%$

15. If $(1/3.197) = 0.3127$, then find the value of $(1/0.0003197)$.

a) 3127

b) 3197

c) 312.7

d) 0.3127

Answer: A

If $(1/3.197) = 0.3127$

Then,

$$1/0.0003197 = 1/3.197 \times 10000$$

$$= 0.3127 \times 10000$$

$$= 3127$$

16. If $\cos^4 A - \sin^4 A = X$, then the value of x is.

a) $\cos^2 A - 1$

b) $2 \cos^2 A - 1$

c) $2 \cos^2 A + 1$

d) $\cos^2 A + 1$

Answer: B

$$\cos^4 A - \sin^4 A = X$$

$$(\cos^2 A - \sin^2 A) \times (\cos^2 A + \sin^2 A) = X$$

$$(\cos^2 A - \sin^2 A) \times 1 = X$$

$$(\cos^2 A - \sin^2 A) = X$$

$$X = 2 \cos^2 A - 1$$

17. $3^{15} + 3^{16} + 3^{17} + 3^{18} + 3^{19}$ is divisible by.

a) 11

b) 13

c) 19

d) 17

Answer: A

$$3^{15} + 3^{16} + 3^{17} + 3^{18} + 3^{19}$$

$$= 3^{15}(1 + 3 + 9 + 27 + 81)$$

$$= 3^{15} \times 121$$

$$= 3^{15} \times 11 \times 11$$

So it is divisible by 11.

18. If 60% of A = 30% of B = 40% of C and C = x% of A, then the value of x is.

a) 200

b) 500

c) 300

d) 800

Answer: B

According to the question,

$$A \times 60/100 = B \times 30/100$$

$$2A = B$$

$$B = C \times 40/100$$

$$B : C = 2 : 5$$

$$A : B : C = 1 : 2 : 5$$

$$C = x\% \text{ of } A$$

$$5 = x/100 \times A$$

$$x = 500$$

19. If $P = 99$, then find the value of $P(P^2 + 3P + 3)$.

a) 10000000

b) 999000

c) 999999

d) 990000

Answer: C

$$P(P^2 + 3P + 3)$$

$$= P^3 + 3P^2 + 3P$$

$$= P^3 + 3P^2 + 3P + 1 - 1$$

$$= (P + 1)^3 - 1$$

$$= (99 + 1)^3 - 1$$

$$= 100^3 - 1$$

$$= 1000000 - 1$$

$$= 999999$$

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20. If 21 is added to a number, it becomes 7 less than thrice of the number. Then the number is.

- a) 14
- b) 16
- c) 18
- d) 19

Answer: A

According to the question,

$$21 + x = 3x - 7$$

$$2x = 28$$

$$x = 14$$

21. The average age of a jury of 5 is 40, if a member aged 35 resigns and a man aged 25 becomes a member, the average age of the new jury is.

- a) 30 years
- b) 38 years
- c) 40 years
- d) 42 years

Answer: B

$$\text{Sum of 5} = 5 \times 40 = 200$$

$$\text{Sum of 4} = 200 - 35 = 165$$

$$\text{New average} = 165 + 25/5 = 190/5 = 38 \text{ years}$$

22. The compound interest on R. 30,000 at 7% per annum for a certain time is Rs. 4347. The time is.

- a) 3 years
- b) 4 years
- c) 2 years
- d) 2.5 years

Answer: C

$$\text{Amount} = 30000 + 4347 = 34347$$

$$34347 = 30000 (1 + 7/100)^n$$

$$34347/30000 = (1 + 7/100)^n$$

$$11449/10000 = (107/100)^n$$

$$(107/100)^2 = (107/100)^n$$

$$n = 2 \text{ years}$$

23. If the circumference of a circle is 264 cm, then find the area of semicircle.

- a) 2772 cm²
- b) 3773 cm²
- c) 4774 cm²
- d) 5885 cm²

Answer: A

$$\text{Circumference of a circle} = 264 \text{ cm}$$

$$2\pi r = 264$$

$$2 \times 22/7 \times r = 264$$

$$r = 42$$

$$\text{Area of semicircle} = \pi r^2/2 = 22/7 \times 1764/2 = 2772 \text{ cm}^2$$

24. If the ratio of length and breadth is 3 : 4 and area of the rectangle is 192 cm, then find the perimeter of the rectangle.

- a) 59 cm
- b) 55 cm
- c) 56 cm
- d) 58 cm

Answer: C

$$\text{Area of rectangle} = 192$$

$$l \times b = 192$$

$$3x \times 4x = 192$$

$$12x^2 = 192$$

$$x^2 = 192/12$$

$$x^2 = 16$$

$$x = \sqrt{16}$$

$$x = 4$$

$$\text{Perimeter} = 2(l + b) = 2(3x + 4x) = 2 \times 7x = 2 \times 7 \times 4 = 56 \text{ cm}$$

25. The difference of two numbers is 15% of their sum, the ratio of the larger number to the smaller number is.

- a) 23 : 17

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b) 11 : 9

c) 17 : 11

d) 23 : 11

Answer: A

According to the question,

$$x - y = 15\% (x + y)$$

$$x - y = 15/100 (x + y)$$

$$x - y = 3/20 (x + y)$$

$$20(x - y) = 3(x + y)$$

$$20x - 20y = 3x + 3y$$

$$17x = 23y$$

$$x/y = 23/17$$

26. What is the sum of the roots of the quadratic equation

$$15x^2 + 13x - 2 = 0?$$

a) 13/15

b) 2/15

c) 2/13

d) - 13/15

Answer: D

$$15x^2 + 13x - 2 = 0$$

Sum of roots of the given equation = $-b/a = -13/15$

27. The sum of 2 digit number is 16. If the digits are inter changed then the number increase by 18, then find the numbers.

a) 79

b) 89

c) 99

d) 109

Answer: A

According to the question,

$$x + y = 16 \dots (i)$$

$$10x + y = 10y + x + 18$$

$$9y - 9x = 18$$

$$y - x = 2 \dots (ii)$$

From equ (i) and (ii) we get,

$$x = 7 \text{ and } y = 9$$

28. The product of two numbers is 20826 and their HCF is

26. Find their LCM.

a) 712

b) 715

c) 707

d) 710

Answer: A

Product of numbers = LCM \times HCF

$$20826 = \text{LCM} \times 26$$

$$\text{LCM} = 20826/26$$

$$\text{LCM} = 712$$

29. The sum of three consecutive even numbers is 42, then find the middle number.

a) 12

b) 18

c) 16

d) 14

Answer: D

Three consecutive numbers are $a - 2, a, a + 2$

According to the question,

$$a - 2 + a + a + 2 = 42$$

$$3a = 42$$

$$a = 42/3 = 14$$

Middle number = $a = 14$

30. The smallest fractions among $5/8, 3/4, 13/16, 7/12$.

a) $5/8$

b) $3/4$

c) $13/16$

d) $7/12$

Answer: D

$$5/8 = 0.62$$

$$3/4 = 0.75$$

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$$13/16 = 0.81$$

$$7/12 = 0.58$$

So, smallest fraction is 7/12.

General Awareness

1) Which award is given to outstanding Coaches in Sports and Games?

- a) Arjuna Award
- b) Dronacharya Award
- c) Rajiv Gandhi Khel Ratna
- d) Dhyan Chand Award

Answer: b)

The Dronacharya award, introduced in the year 1985, is conferred to the outstanding coaches in sports and games.

2) Which one of the following articles of Indian constitution has the provision for Financial Emergency in India?

- a) Article 360
- b) Article 362
- c) Article 352
- d) Article 356

Answer: a)

Article 360 in the Constitution of India 1949 is related to the proclamation of financial emergency in India. If the President is satisfied that a situation has arisen whereby the financial stability or credit of India or of any part of the territory thereof is threatened, he may declare financial emergency in the country.

3) Black soil is found in which of the following state?

- a) Maharashtra
- b) Kerala
- c) Uttar Pradesh

d) Bihar

Answer: a)

Black soil is the best soil type for cotton cultivation. It is mostly found in areas such as Gujarat, Madhya Pradesh and Maharashtra.

4) Poverty and un-British rule in India book is authored by_____.

- a) Dadabhai Naoroji
- b) Syyed Ameer Ali
- c) S. N. Banerji
- d) Lala Lajpat Rai

Answer: a)

Poverty and un-British rule in India book is authored by Dadabhai Naoroji. It brought attention to his theory of the Indian "wealth drain" into Britain.

5) The Salt March was started on_____.

- a) 12 March 1930
- b) 15 August 1933
- c) 18 May 1941
- d) 22 August 1949

Answer: a)

The Salt March, also known as the Salt Satyagraha was an act of nonviolent civil disobedience in colonial India led by Mahatma Gandhi. It was started on 12 March 1930.

6) Which of the following initiative was launched to fulfil Mahatma Gandhi's dream of a clean and hygienic India?

- a) Setu Bharatam Project
- b) PAHAL Scheme
- c) Swadesh Darshan Yojana
- d) Swachh Bharat Abhiyan

Answer: d)

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Swachh Bharat Abhiyan (SBA) or Swachh Bharat Mission (SBM) is a nation-wide campaign in India for the period 2014 to 2019 that aims to clean up the streets, roads and infrastructure of India's cities, towns, and rural areas. It was launched to fulfil Mahatma Gandhi's dream of a clean and hygienic India.

7) Which of the following is not a part of the CPU?

- a) Primary storage
- b) Registers
- c) Control unit
- d) ALU

Answer: a)

Primary Storage (RAM) is not a part of CPU. CPU consists of Register (Memory Location), ALU and Control Unit.

8) Which gas is released during harvesting in rice field?

- a) Hydrogen
- b) Nitrogen
- c) Oxygen
- d) Methane

Answer: d)

Rice paddy fields act as a source of greenhouse gases such as carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O).

9) Minimum support price (MSP) is applicable on how many crops?

- a) 22
- b) 18
- c) 15
- d) 25

Answer: a)

The minimum support price (MSP) is an agricultural product price, set by the Government of India to purchase directly from the farmer. Based on the recommendations of the Commission for Agricultural Costs and Prices, the Department of Agriculture and Co-operation, Government of India, declares Minimum Support Prices (MSP) for 22 crops before their sowing seasons.

10) Who among the following is the Father of Periodic Table?

- a) Glenn Seaborg
- b) Julius Lothar Meyer
- c) Dmitri Mendeleev
- d) Henry Moseley

Answer: c)

Dmitri Ivanovich Mendeleev was a Russian chemist and inventor. He is best remembered for formulating the Periodic Law and creating a farsighted version of the periodic table of elements. Thus, he is the Father of Periodic Table.

11) The Kaziranga National Park (KNP) is a world renowned protected area in_____.

- a) Assam
- b) Sikkim
- c) Jammu and Kashmir
- d) Telangana

Answer: a)

The Kaziranga National Park (KNP) is a world renowned protected area in Assam nestled on the banks of the river Brahmaputra in the foothills of the Karbi Anglong (KA) Hills. It is a UNESCO World Heritage site and famous as one of the few remaining places with a substantial population of the Asiatic one-horned rhinoceros.

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12) Constituent Assembly of India was founded in which of the following year?

- a) 1950
- b) 1948
- c) 1940
- d) 1946

Answer: d)

The Constituent Assembly of India was elected to write the Constitution of India. The Assembly met for the first time in New Delhi on 9 December 1946, and its last session was held on 24 January 1950.

13) Small pox vaccine was developed by whom?

- a) Edward Jenner
- b) Jones E. Salk
- c) Charles Nicolle
- d) Louis Pasteur

Answer: a)

The smallpox vaccine was introduced by Edward Jenner in 1796. It was the first successful vaccine to be developed.

14) Shalimar Bagh is a typical Mughal garden with_____.

- a) persian style
- b) nagara style
- c) vesara style
- d) dravida style

Answer: a)

Shalimar Bagh is a typical Mughal garden with three terraces which follows a Persian garden layout. The garden is constructed on flat land close to Dal Lake with a rectangular central layout with four radiating arms.

15) Panch Mahal is a palace in_____.

- a) Fatehpur Sikri
- b) Mathura
- c) Varanasi
- d) Agra

Answer: a)

Panch Mahal is a palace in Fatehpur Sikri, Uttar Pradesh, India. The Panch Mahal meaning 'Five level Palace' was commissioned by Akbar.

16) Nai Manzil Scheme of Government of India is related to_____.

- a) empowerment of persons with disabilities
- b) financial assistance to rural poor for constructing their houses
- c) providing electricity to the households
- d) benefits to the minority youths

Answer: d)

Nai Manzil is a new initiative of the Government. It was launched on 8th August, 2015 at Patna, Bihar. The Scheme aims to benefit the minority youths who do not have a formal school leaving certificate, i.e those in the category of school- dropouts or educated in community education institutions like Madarsas.

17) Which one of the following is a female sex hormone?

- a) estrogen
- b) follicle-stimulating hormone
- c) luteinizing hormone
- d) testosterone

Answer: a)

The male sex hormone is 'testosterone' and the female sex hormones are 'estrogen' and 'progesterone'.

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18) What is the range of Agni V missile?

- a) 5500-5800 km
- b) 5100-5500 km
- c) 5500-6500 km
- d) 5000-5500 km

Answer: a)

Agni-V is an Indian nuclear-capable ballistic missile developed by the Defence Research and Development Organisation. It has a range of 5,500 to 5,800 km.

19) _____ is the rate at which commercial banks can borrow money from the RBI.

- a) repo rate
- b) reverse repo rate
- c) bank rate
- d) none of the above

Answer: c)

Bank rate is the rate at which commercial banks can borrow money from the RBI.

20) 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.

21) Microchip is made up of _____.

- a) tungsten
- b) nickel
- c) germanium
- d) silicon

Answer: d)

A microchip is a unit of packaged computer circuitry usually called an integrated circuit that is manufactured from a material such as silicon at a very small scale.

22) Which of the following is the region of the Earth's atmosphere above the stratosphere and below the thermosphere?

- a) Mesosphere
- b) Exosphere
- c) Troposphere
- d) Thermosphere

Answer: a)

The mesosphere is one of five layers of the atmosphere surrounding the planet earth. It is the region of the earth's atmosphere above the stratosphere and below the thermosphere, between about 30 and 50 miles in altitude.

23) Ibn Battuta came in India during the reign of which ruler?

- a) Ghiyasuddin Tughlaq
- b) Firoz Shah Tughlaq
- c) Mohammad-bin Tughlaq
- d) Nusrat Shah

Answer: c)

Ibn Battuta reached Delhi during the reign of Mohammad Bin Tughlaq and with him he bought several precious

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presents for the Sultan of Delhi. The explorer served the king for seven years as a judge in his royal court.

24) Who was crowned with Femina Miss India title in 2019?

- a) Suman Rao
- b) Anukreethy Vyas
- c) Manushi Chillar
- d) Priyadarshini Chatterjee

Answer: a)

Suman Ratan Singh Rao is an Indian model and beauty pageant title holder who was crowned Femina Miss India 2019. She is from Rajasthan.

25) Every Child Matters is a book authored by whom?

- a) Kailash Satyarthi
- b) Medha Patkar
- c) Sunitha Krishnan
- d) Kriti Bharti

Answer: a)

Kailash Satyarthi is an Indian social reformer who campaigned against child labour in India and advocated the universal right to education. Every Child Matters is a book authored by him.

26) Which state had the highest rural population in Census 2011?

- a) Bihar
- b) Haryana
- c) Uttar Pradesh
- d) Punjab

Answer: c)

According to Census 2011, the state of Uttar Pradesh had the highest population with over 155 million people living in rural areas.

27) Mangalyaan was launched into space through which rocket?

- a) PSLV-XL C25
- b) PSLV C-4
- c) PSLV C66
- d) PSLV-XL C33

Answer: a)

The Mars Orbiter Mission (MOM), also called Mangalyaan is a space probe orbiting Mars. It was launched on 5 November 2013 by the Indian Space Research Organisation (ISRO) into space through PSLV-XL C25 rocket.

28) Which one of the following is a secondary pollutant?

- a) carbon monoxide
- b) nitrogen oxide
- c) sulfur oxide
- d) ozone

Answer: d)

Primary pollutants include ammonia, sulfur dioxide, nitrogen dioxide and carbon monoxide. Secondary pollutants include ground-level ozone, acid rain and nutrient enrichment compounds.

29) What is the SI unit of 'Power of lens'?

- a) Dioptre
- b) Volt
- c) Ampere
- d) Farad

Answer: a)

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Diopetre is the SI unit for measuring power of a lens.

30) Rajiv Gandhi Khel Ratna award 2020 was given to which indian cricketer?

- a) Virat kohli
- b) Jasprit Bumrah
- c) Rohit Sharma
- d) Mahendra Singh Dhoni

Answer: c)

Batsman Rohit Sharma received the country's highest sporting honour, the Rajiv Gandhi Khel Ratna Award, for 2020.

31) What is the theme of the World Environment Day 2020?

- a) "Celebrate Biodiversity"
- b) "Green Cities"
- c) 'Your Planet Needs You – UNite to Combat Climate Change'
- d) 'Many Species. One Planet. One Future'

Answer: a)

World Environment Day (WED) is celebrated on 5 June every year. The theme of the World Environment Day 2020 is "Celebrate Biodiversity".

32) Time trial is associated with which sport?

- a) Table-Tennis
- b) Cycling
- c) Wrestling
- d) Badminton

Answer: b)

Time trial, in bicycle racing is a form of competition in which individual cyclists or teams are sent out at intervals

to cover a specified distance on a road course. The contestant with the fastest time for the distance wins.

33) Who is the fifth of the ten total Sikh Gurus?

- a) Guru Angad Dev
- b) Guru Amardas Sahib
- c) Guru Ram Das
- d) Guru Arjan Dev

Answer: d)

Guru Arjan was the first of the two Gurus martyred in the Sikh faith and the fifth of the ten total Sikh Gurus. He compiled the first official edition of the Sikh scripture called the Adi Granth.

34) Nagarjuna Sagar Dam is built on which river?

- a) krishna
- b) kaveri
- c) narmada
- d) godavari

Answer: a)

Nagarjuna Sagar Dam is a masonry dam across the Krishna River at Nagarjuna Sagar which straddles the border between Guntur district in Andhra Pradesh and Nalgonda district in Telangana.

35) Which is the tallest peak of the Eastern Ghats?

- a) Jindhagada Peak
- b) Arma Konda
- c) Gali Konda
- d) Sinkram Gutta

Answer: a)

The Jindhagada Peak is the tallest peak of Eastern Ghats, located in the beautiful Araku Valley of Andhra Pradesh.

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36) Article 17 of the Indian Constitution deals with which of the following?

- a) Abolition of Untouchability
- b) Equality before law
- c) Abolition of Titles
- d) Equality of opportunity in matters of public employment

Answer: a)

Article 17 in The Constitution of India 1949 deals with the Abolition of Untouchability. Untouchability is abolished and its practice in any form is forbidden. The enforcement of any disability arising out of Untouchability shall be an offence punishable in accordance with law.

37) Poona pact 1932, that granted new rights to the untouchables was signed between whom?

- a) Jawaharlal Nehru and Mahatma Gandhi
- b) B.R Ambedkar and Mahatma Gandhi
- c) B.R Ambedkar and Lala Lajpat rai
- d) Bal Gangadhar Tilak and Mahatma Gandhi

Answer: b)

The Poona Pact refers to an agreement between B. R. Ambedkar and Mahatma Gandhi on the reservation of electoral seats for the depressed classes in the legislature of British India government. It was made on 24 September 1932 at Yerwada Central Jail in Poona, India and was signed by Mahatma Gandhi and B.R Ambedkar.

38) The Indian Diamond Institute is located in_____.

- a) Andhra Pradesh
- b) Gujarat

c) Maharashtra

d) Karnataka

Answer: b)

The Indian Diamond Institute is a Government of India sponsored autonomous higher school of learning in the fields of diamonds, gems and jewellery in India. The Institute is located in Surat, Gujarat.

39) Which state has the longest coastline in India?

- a) Gujarat
- b) Kerala
- c) Tamil Nadu
- d) Goa

Answer: a)

Gujarat has the longest coastline in India which lies in the Kathiawar region of the state and is 1,600 km long. This coastline is surrounded by the Arabian Sea and is dotted with 41 ports-- 1 major, 11 intermediate and 29 minor.


40) Crescograph was invented by whom?

- a) Meghnad Saha
- b) Homi J. Bhabha
- c) Subrahmanyam Chandrashekhar
- d) Jagadish Chandra Bose

Answer: d)

A crescograph is a device for measuring the growth in plants. It was invented in the early 20th century by Sir Jagadish Chandra Bose.

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