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Sharpen your Mathematical skills on
GRE/GMAT/SAT/CAT/IBPS

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Quantitative

Aptitude

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Aptitude



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Sharpen your Mathematical Skills of GRE/GMAT/SAT/CAT/IBPS

Written by IMAD JAWEED

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- a) 17 kg
- b) 20 kg
- c) 26 kg
- d) 31

Answer: Option d

Solution:

Let A, B, C represent their respective weights. Then, we have:

$$A + B + C = (45 \times 3) = 135 \dots (i)$$

$$A + B = (40 \times 2) = 80 \dots (ii)$$

$$B + C = (43 \times 2) = 86 \dots (iii)$$

$$\text{Adding (ii) and (iii), we get: } A + 2B + C = 166 \dots (iv)$$

$$\text{Subtracting (i) from (iv), we get: } B = 31.$$

Therefore

$$B's \text{ weight} = 31 \text{ kg.}$$

18) If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, then the average marks of all the students is:

- a) 53.33
- b) 54.68
- c) 55.15
- d) 52.50

Answer: Option b

Solution:

$$\text{Required average} = \frac{((55 \times 50) + (60 \times 55) + (45 \times 60))}{55 + 60 + 45} = 8750 / 160 = 54.68$$

19) A pupil's marks were wrongly entered as 83 instead of 63. Due to that the average marks for the class got increased by half (1/2). The number of pupils in the class is:

- a) 10
- b) 20

17) Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

- a) 39, 30
- b) 41, 32
- c) 42, 33
- d) 43, 34

Answer: Option c

Explanation:

Let their marks be $(x + 9)$ and x .

Then, $x + 9 = 56\%$ of $(x + 9 + x)$

$$x + 9 = (56/100) * (x + 9 + x)$$

$$x + 9 = (14/25) * (x + 9 + x)$$

$$25 * (x + 9) = 14 * (x + 9 + x)$$

$$25x + 225 = 28x + 126$$

$$3x = 99$$

$$x = 33$$

Therefore $x + 9 = 33 + 9 = 42$

So, their marks are 42 and 33.

18) The difference between the value of a number increased by 12.5% and the value of the original number decreased by 25% is 30. What is the original number?

- a) 60
- b) 80
- c) 40
- d) 120

Answer: Option b

Explanation:

Let the original number be x .

Let A be the value obtained when x is increased by 12.5%.

Now $1/5^{\text{th}}$ of work has completed in 3 days

This means $1/5^{\text{th}} = 20\%$ of total work has completed in 3

Whole work will be done in $(3 \times 5) = 15$ days.

5) A can do a work in 16 days which B and C can finish in 20 and 24 days respectively. In how many days can A, B and C together complete $37/4^{\text{th}}$ of work?

- a) 60 b) 45
c) 75 d) 180

Answer: Option a

Explanation:

In 1 day A can do $1/16^{\text{th}}$ of the work

In 1 day B can do $1/20^{\text{th}}$ of the work

In 1 day C can do $1/24^{\text{th}}$ of the work.

In 1 day working together A, B & C would do: $(1/16 + 1/20 + 1/24)$ of the work

$$= 37/240$$

$37/240^{\text{th}}$ of the work is done in 1 day; hence the entire work is done in $240/37$ days

$37/4^{\text{th}}$ of the work could be done in $= (240/37) \times (37/4)$

$$= 60 \text{ days}$$

6) A and B can do a piece of work in 6 days, B and C together in 10 days, C and A together in $15/2$ days. In how many days can A, B and C together complete the work?

- a) 20 b) 5
c) 10 d) 8

Answer: Option b

Explanation:

In 1 day (A+B) can do $= 1/6^{\text{th}}$ of the work.

In 1 day (B+C) can do $= 1/10^{\text{th}}$ of the work

In 1 day (A+C) can do $= 2/15^{\text{th}}$ of the work.

Now $(A+B) + (B+C) + (C+A) = (1/6 + 1/10 + 2/15)$

$$2A + 2B + 2C = (5+3+4) / 30$$

Answer: Option b

Explanation:

Suppose A, B and C take x , $\frac{x}{2}$ and $\frac{x}{3}$ days respectively to finish the work.

$$\text{Then, } \left(\frac{1}{x} + \frac{2}{x} + \frac{3}{x} \right) = \frac{1}{2}$$

$$\Rightarrow \frac{6}{x} = \frac{1}{2}$$

$$\Rightarrow x = 12.$$

So, B takes $(12/2) = 6$ days to finish the work.

20) Twenty women can do a work in sixteen days. Sixteen men can complete the same work in fifteen days. What is the ratio between the capacity of a man and a woman?

- a) 4:3 b) 3:4
c) 5:3 d) Data inadequate

Answer: Option a

Explanation:

$(20 * 16)$ women can complete the work in 1 day.

$$\therefore 1 \text{ woman's 1 day's work} = \frac{1}{320}.$$

$(16 * 15)$ men can complete the work in 1 day.

$$\therefore 1 \text{ man's 1 day's work} = \frac{1}{240}$$

So, required ratio

$$= \frac{1}{240} : \frac{1}{320}$$

$$= \frac{1}{3} : \frac{1}{4}$$

$$= 4 : 3 \text{ (cross multiplied)}$$

9) A man completes a journey in 10 hours He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.

- a) 220 km b) 224 km
c) 230 km d) 350 km

Answer: Option b

Explanation:

$$\frac{(1/2)x}{21} + \frac{(1/2)x}{24} = 10$$

$$\Rightarrow \frac{x}{21} + \frac{x}{24} = 20$$

$$\Rightarrow 15x = 168 \times 20$$

$$\Rightarrow x = \left(\frac{168 \times 20}{15} \right) = 224 \text{ km.}$$

10) The ratio between the speeds of two trains is 7 : 6. If the second train runs 400 km in 4 hours, then the speed of the first train is:

- a) 70 km/hr b) 75.5 km/hr
c) 84.75 km/hr d) 87.5 km/hr

Answer: Option d

Explanation:

Let the speed of two trains be $7x$ and $8x$ km/hr.

$$\text{Then, } 8x = \left(\frac{400}{4} \right) = 100$$

$$\Rightarrow x = \left(\frac{100}{8} \right) = 12.5$$

$$\text{Speed of train} = (7 \times 12.5) \text{ km/hr} = 87.5 \text{ km/hr.}$$

11) Jane covered a distance of 340 miles between city A and city taking a total of 5 hours If part of the distance was covered at 60 miles per hour speed and the balance at 80 miles per hour speed, how many hours did she travel at 60 miles per hour?

- a) 2 hours b) 4 hours
c) 3 hours d) 5 hours

Q.28) Value of $(1^{-1} + 2^{-1} + 3^{-1})^{-1}$ is

[a] $-6 \div 5$

[b] $3 \div 5$

[c] $11 \div 6$

[d] $6 \div 11$

Answer: Option d

Explanation:

$$(1^{-1} + 2^{-1} + 3^{-1})^{-1} = (1 \div 1 + 1 \div 2 + 1 \div 3)^{-1} = (3 \div 2 + 1 \div 3)^{-1} = (11 \div 6)^{-1} = 6 \div 11$$

Q.29) Equations in which variables occur in exponent are called

[a] Trigonometric equation

[b] Logarithmic equation

[c] Exponential equation

[d] Hyperbolic equation

Answer: Option c

Explanation:

Equations in which variables occur in exponent are called "Exponential equation".

For example: $2^x = 64$

Q.30) Value of $(2^3 \div 8)^{-3}$ is

[a] $1 \div 8$

[b] 1

[c] -1

[d] 0

Answer: Option b

Explanation:

Here we have $(2^3 \div 8)^{-3} = (8 \div 8)^{-3} = (1)^{-3} = (1)^3 = 1$

Q.31) What is the value of $(2^{-3} * 4^{-3}) \div (8^{-2} * 16^{-2})$

[a] 32

[b] 64

[c] 16

[d] $1 \div 32$

Answer: Option a

Explanation:

Here we have $(2^{-3} * 4^{-3}) \div (8^{-2} * 16^{-2}) = (2^{-3} * 2^{-6}) \div (2^{-6} * 2^{-8}) = 2^{(-3-6+6+8)} = 2^5 = 32$

Q.32) What is the value of $(2^3)^4 * (2^2)^4 \div (2^2 * 2^6)^2$

[a] 32

[b] 16

[c] $1 \div 16$

[d] $1 \div 32$

Answer: Option b

Explanation:

Here we have $(2^3)^4 * (2^2)^4 \div (2^2 * 2^6)^2$

d) \$230

Answer: Option b

Explanation:

$$\frac{4}{15} A = \frac{2}{5} B$$

$$\Rightarrow A = \left(\frac{2}{5} \times \frac{15}{4} \right) B$$

$$\Rightarrow A = \frac{3}{2} B$$

$$\Rightarrow \frac{A}{B} = \frac{3}{2}$$

$$\Rightarrow A : B = 3 : 2.$$

$$\therefore \text{B's share} = \$ \left(1210 \times \frac{2}{5} \right) = \$ 484.$$

12) Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:

a) 2:5

b) 3:5

c) 4:5

d) 6:5

Answer: Option c

Explanation:

Let the third number be x .

$$\text{Then, first number} = 120\% \text{ of } x = \frac{120x}{100} = \frac{6x}{5}$$

$$\text{Second number} = 150\% \text{ of } x = \frac{150x}{100} = \frac{3x}{2}$$

$$\therefore \text{Ratio of first two numbers} = \left(\frac{6x}{5} : \frac{3x}{2} \right) = 12x : 15x = 4 : 5.$$

13) Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

The tens place can now be filled by any of the remaining 5 digits (2, 3, 6, 7, 9). So, there are 5 ways of filling the tens place.

The hundreds place can now be filled by any of the remaining 4 digits. So, there are 4 ways of filling it.

Required number of numbers = $(1 \times 5 \times 4) = 20$

9) A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?

- a) 32 b) 64
c) 96 d) 48

Answer: Option b

Explanation:

We may have (1 black and 2 non-black) or (2 black and 1 non-black) or (3 black).

Required number of ways = $({}^3C_1 \times {}^6C_2) + ({}^3C_2 \times {}^3C_1) + ({}^3C_3)$

= $(45) + (18) + (1)$

= 64

10) In how many different ways can the letters of the word 'DETAIL' be arranged in such a way that the vowels occupy only the odd positions?

- a) 32 b) 48
c) 36 d) 60

Answer: Option c

Explanation:

There are 6 letters in the given word, out of which there are 3 vowels and 3 consonants.

Let us mark these positions as under:

- (1) (2) (3) (4) (5) (6)
- Now, 3 vowels can be placed at any of the three places out of 4, marked 1, 3, 5.
- Number of ways of arranging the vowels = ${}^3P_3 = 3! = 6$.
- Also, the 3 consonants can be arranged at the remaining 3 positions.

By Fundamental Principle of Multiplication, Total number of arrangements will be $4! \times 5! = 24 \times 120 = 2880$

15) There are 6 periods in each working day of a school. In how many ways can one arrange 5 subjects such that each subject is allowed at least one period?

- a) 3600 b) 7200
c) 1800 d) 1500

Answer: Option a

Explanation:

5 periods can be arranged in 6 periods in $6P_5$ ways. Now one period left and it can be allotted to any one of the 5 subjects. So number of ways in which remaining one period can be arranged is 5.

Total Number of arrangements = $6P_5 \times 5 = 6! \times 5 = 3600$

16) An abstract painter has 15 colours on her pallet to work with. If she decides she will paint with exactly 5 colours, how many different combinations of colours can she choose from?

- a) 3600 b) 3003
c) 1800 d) 6006

Answer: Option b

Explanation:

Since we are choosing only 5 of the 15 colours so we can write

$${}^{15}C_5 = (15 \times 14 \times 13 \times 12 \times 11) / (5 \times 4 \times 3 \times 2 \times 1) = 3003$$

17) Five persons entered the lift cabin on the ground floor of an 8 floor house. Suppose each of them can leave the cabin independently at any floor beginning with the first. Find the total number of ways in which each of the five persons can leave the cabin at any one of the 7 floors

- a) 49 b) 343
c) 2401 d) 16807

Answer: Option d

Explanation:

We need to know the simple interest, Principal amount and time to find the rate.

Since the principal is not given, so data is inadequate.

9) The compound interest on \$ 30,000 at 7% per annum is \$ 4347. The period (in years) is:

- a) 3.5 years b) 2 years
c) 4 years d) 5 years

Answer: Option b

Explanation:

Amount = \$ (30000 + 4347) = \$ 34347.

Let the time be n years

$$\begin{aligned} \text{Then, } 30000 \left(1 + \frac{7}{100}\right)^n &= 34347 \\ \Rightarrow \left(\frac{107}{100}\right)^n &= \frac{34347}{30000} = \frac{11449}{10000} = \left(\frac{107}{100}\right)^2 \\ \therefore n &= 2 \text{ years} \end{aligned}$$

10) What will be the compound interest on a sum of \$ 25,000 after 3 years at the rate of 12 % per Annum?

- a) \$15545.25 b) \$10483.20
c) \$ 10123.20 d) \$18000.50

Answer: Option c

Explanation:

$$\begin{aligned} \text{Amount} &= \$ \left[25000 * \left(1 + \frac{12}{100}\right)^3 \right] \\ &= \$ \left(25000 * \frac{28}{25} * \frac{28}{25} * \frac{28}{25} \right) \\ &= \$ 35123.20 \end{aligned}$$

$$\therefore \text{Combined interest} = \$ (35123.20 - 25000) = \$ 10123.20$$

11) At what rate of compound interest per annum will a sum of \$ 1200 become \$ 1348.32 in 2 years?

- a) 6.5 % b) 6%

Data Sufficiency

Directions to Solve

Each of the questions given below consists of a statement and / or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is / are sufficient to answer the given question. Read both the statements and

Give answer (A) if the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.

Give answer (B) if the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.

Give answer (C) if the data either in Statement I or in Statement II alone are sufficient to answer the question.

Give answer (D) if the data even in both Statements I and II together are not sufficient to answer the question.

Give answer (E) if the data in both Statements I and II together are necessary to answer the question.

I. Then, speed of the mail train = $(y + 12)$ km/hr.

II. $\frac{x}{y} - \frac{x}{(y + 12)} = \frac{40}{60}$.

Thus, even I and II together do not give x .

∴ Correct answer is (D).

8) Two cars pass each other in opposite direction. How long would they take to be 500 km apart?

I. The sum of their speeds is 135 km/hr.

II. The difference of their speed is 25 km/hr.

A) I alone sufficient while II alone not sufficient to answer

B) II alone sufficient while I alone not sufficient to answer

C) Either I or II alone sufficient to answer

D) Both I and II are not sufficient to answer

E) Both I and II are necessary to answer

Answer: Option A

Explanation:

I gives, relative speed = 135 km/hr.

∴ Time taken = $\frac{500}{135}$ hrs.

II does not give the relative speed.

∴ I alone gives the answer and II is irrelevant.

∴ Correct answer is (A).

9) How much time did X take to reach the destination?

I. The ratio between the speed of X and Y is 3 : 4.

II. Y takes 36 minutes to reach the same destination.

A) I alone sufficient while II alone not sufficient to answer

B) II alone sufficient while I alone not sufficient to answer

C) Either I or II alone sufficient to answer

E) Both I and II are necessary to answer

Answer: Option D

Explanation:

Gain = 25% of Cost price

In order to find gain, we must know the sale price of each article and the number of articles sold.

∴ Correct answer is (D).

13) A shopkeeper sells some toys at Rs. 250 each. What percent profit does he make? To find the answer, which of the following information given in Statements I and II is necessary?

I. Number of toys sold.

II. Cost price of each toy.

A) I alone sufficient while II alone not sufficient to answer

B) II alone sufficient while I alone not sufficient to answer

C) Either I or II alone sufficient to answer

D) Both I and II are not sufficient to answer

E) Both I and II are necessary to answer

Answer: Option B

Explanation:

Selling price = Rs. 250 each.

To find gain percent, we must know the Cost price of each.

∴ Correct answer is (B).

14) A man mixes two types of rice (X and Y) and sells the mixture at the rate of Rs. 17 per kg. Find his profit percentage.

I. The rate of X is Rs. 20 per kg.

II. The rate of Y is Rs. 13 per kg.

A) I alone sufficient while II alone not sufficient to answer

B) II alone sufficient while I alone not sufficient to answer

C) Either I or II alone sufficient to answer

This is an alternating multiplication and subtracting series: First, multiply by 2 and then subtract 8.

12) Look at this series: 28, 25, 5, 21, 18, 5, 14, ... What number should come next?

- a) 12 b) 11
- c) 14 d) 9

Answer: Option b

Explanation:

This is an alternating subtraction series with the interpolation of a random number, 5, as every third number. In the subtraction series, 3 is subtracted, then 4, then 3, and so on.

13) Look at this series: 8, 11, 21, 15, 18, 21, 22, ... What number should come next?

- a) 25 b) 19
- c) 14 d) 2

Answer: Option a

Explanation:

This is an alternating addition series, with a random number, 21, interpolated as every third number. The addition series alternates between adding 3 and adding 4. The number 21 appears after each number arrived at by adding 3.

14) Look at this series: 3, 5, 35, 10, 12, 35, 17, ... What number should come next?

- a) 19 b) 29
- c) 14 d) 39

Answer: Option a

Explanation:

This is an alternating addition series, with a random number, 35, interpolated as every third number. The pattern of addition is to add 2, add 5, add 2, and so on. The number 35 comes after each "add 2" step.

15) Look at this series: F2, __, D8, C16, B32, ... What number should fill the blank?

- a) A16 b) G14
- c) E3 d) E4

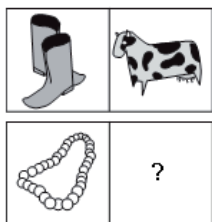
- c) 3 d) 4

Answer: Option d

Explanation:

A can of paint is to a paintbrush as a spool of thread is to a sewing needle. This is a relationship of function. Both show the tool needed to perform a task.

13)



(1)



(2)



(3)



(4)

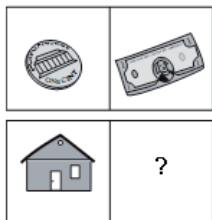
- a) 1 b) 2

- c) 3 d) 4

Answer: Option c

Explanation: Leather boots are to cow as pearl necklace is to oyster. The leather to make the boots comes from a cow; the pearls to make the necklace come from oysters.

14)



(1)



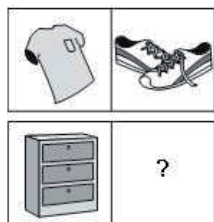
(2)



(3)



(4)



(1)



(2)



(3)



(4)

a) 1 b) 2

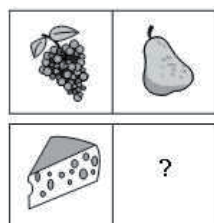
c) 3 d) 4

Answer: Option b

Explanation:

A T-shirt is to a pair of shoes as a chest of drawers is to a couch. The relationship shows to which group something belongs. The T-shirt and shoes are both articles of clothing; the chest and couch are both pieces of furniture.

17)



(1)



(2)



(3)



(4)

a) 1 b) 2

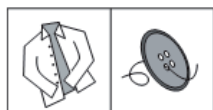
c) 3 d) 4

Answer: Option a

Explanation:

Grapes are to a pear as cheese is to butter. This relationship shows the grouping or category to which something belongs. Grapes and pears are fruit; cheese and butter are both dairy products.

18)



(1)



(2)



(3)



(4)

a) 1

c) 3

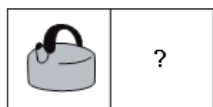
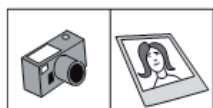
d) 4

Answer: Option c

Explanation:

A shirt is to a button as a belt is to a belt buckle. A button is used to close a shirt; a belt buckle is used to close a belt.

19)



(1)



(2)



(3)



(4)

a) 1

b) 2

c) 3

d) 4

Given the information presented, the only statement that could be considered true is that the fruit should not be eaten because it is poisonous. There is no support that taxol is poisonous or that taxol has cured anyone (choices a and b). There is no support for choice d.

3) Erin is twelve years old. For three years, she has been asking her parents for a dog. Her parents have told her that they believe a dog would not be happy in an apartment, but they have given her permission to have a bird. Erin has not yet decided what kind of bird she would like to have.

a) Erin's parents like birds better than they like dogs.

b) Erin does not like birds.

c) Erin and her parents live in an apartment.

d) Erin and her parents would like to move.

Answer: Option c

Explanation:

Since Erin's parents think a dog would not be happy in an apartment, we can reasonably conclude that the family lives in an apartment. We do not know if Erin's parents dislike dogs (choice a) or if Erin dislikes birds (choice b). There is no support for choice d.

4) Tim's commute never bothered him because there were always seats available on the train and he was able to spend his 40 minutes comfortably reading the newspaper or catching up on paperwork. Ever since the train schedule changed, the train has been extremely crowded, and by the time the doors open at his station, there isn't a seat to be found.

a) Tim would be better off taking the bus to work.

b) Tim's commute is less comfortable since the train schedule changed.

c) Many commuters will complain about the new train schedule.

d) Tim will likely look for a new job closer to home.

Answer: Option b

Explanation:

The passage tells us that Tim's commute didn't bother him because he was always able to sit down and comfortably read or do paperwork. Therefore, it is reasonable to assume that Tim's commute has become less comfortable since the schedule change, because it is very crowded and he can no longer find a seat. There is no information given that supports choices a, c, and d.

5) When they heard news of the hurricane, Maya and Julian decided to change their vacation plans. Instead of traveling to the island beach resort, they booked a room at a fancy new spa in the mountains. Their plans were a bit more expensive, but they'd heard wonderful things about the spa and they were relieved to find availability on such short notice.

- a) Maya and Julian take beach vacations every year.
- b) The spa is overpriced.
- c) It is usually necessary to book at least six months in advance at the spa.
- d) Maya and Julian decided to change their vacation plans because of the hurricane.

Answer: Option d

Explanation:

The first sentence makes this statement true. There is no support for choice a. The passage tells us that the spa vacation is more expensive than the island beach resort vacation, but that doesn't necessarily mean that the spa is overpriced; therefore, choice b cannot be supported. And even though the paragraph says that the couple was relieved to find a room on short notice, there is no information to support choice c, which says that it is usually necessary to book at the spa at least six months in advance.

6) Ten new television shows appeared during the month of September. Five of the shows were sitcoms, three were hour-long dramas, and two were news-magazine shows. By January, only seven of these new shows were still on the air. Five of the shows that remained were sitcoms.

- a) Only one of the news-magazine shows remained on the air.
- b) Only one of the hour-long dramas remained on the air.

E) Both I and II are implicit

Answer: Option B

Explanation:

Assumption I goes against the statement. So, it is not implicit. The allowance will serve as a reward to the employees and shall provoke them to come on time. So, II is implicit.

4) **Statement:** Unemployment allowance should be given to all unemployed Indian youth above 18 years of age.

Assumptions:

- I. There are unemployed youth in India who needs monetary support.
- II. The government has sufficient funds to provide allowance to all unemployed youth.

A) Only assumption I is implicit

B) Only assumption II is implicit

C) Either I or II is implicit

D) Neither I nor II is implicit

E) Both I and II are implicit

Answer: Option A

Explanation:

I directly follows from the statement and so is implicit. Also, the statement is a suggestion and does not tell about a government policy or its position of funds. So, II is not implicit.

5) **Statement:** "If you trouble me, I will slap you." - A mother warns her child.

Assumptions:

- I. With the warning, the child may stop troubling her.
- II. All children are basically naughty.

A) Only assumption I is implicit

B) Only assumption II is implicit

The statement lays stress on enforcing attendance. This implies that children in villages do not attend school regularly. So, I is implicit. Besides, the statement calls 'one school for every village' a 'substantial achievement'. So, II is also implicit.

9) **Statement:** The government has decided to disinvest large chunk of its equity in select public sector undertakings for a better fiscal management.

Assumptions:

- I. The amount generated out of the disinvestment process may reduce substantially the mounting fiscal deficits.
 - II. There will be enough demand in the market for the shares of these undertakings.
- A) Only assumption I is implicit
 - B) Only assumption II is implicit
 - C) Either I or II is implicit
 - D) Neither I nor II is implicit
 - E) Both I and II are implicit

Answer: Option A

Explanation:

The fact given in I directly follows from the phrase '..... for a better fiscal management' in the statement. So, I is implicit. However, the public response to the new policy cannot be ascertained. So, II is not implicit.

10) **Statement:** Never before such a lucid book was available on the topic.

Assumptions:

- I. Some other books were available on this topic.
 - II. You can write lucid books on very few topics.
- A) Only assumption I is implicit
 - B) Only assumption II is implicit
 - C) Either I or II is implicit

- C) Either I or II is implicit
- D) Neither I nor II is implicit
- E) Both I and II are implicit

Answer: Option D

Explanation:

Neither the volume of readership of the 'Times' in areas other than the Metropolis nor the reason for its huge acclamation is evident from the statement So, neither I nor II is implicit

18) **Statement:** Apart from the entertainment value of television, its educational value cannot be ignored.

Assumptions:

- I. People take television to be a means of entertainment only.
- II. The educational value of television is not realised properly.

A) Only assumption I is implicit

B) Only assumption II is implicit

C) Either I or II is implicit

D) Neither I nor II is implicit

E) Both I and II are implicit

Answer: Option E

Explanation:

The statement makes the first assumption clear though educational value is not to be ignored. So, I is implicit. That the educational value must not be ignored also shows that educational value is not realised properly. So, II is also implicit.

19) **Statement:** Children are influenced more by their teachers nowadays.

Assumptions:

- I. The children consider teachers as their models.
- II. A large amount of children's time is spent in school.

A) Only assumption I is implicit

B) Only assumption II is implicit

C) Either I or II is implicit

D) Neither I nor II is implicit

E) Both I and II are implicit

Answer: Option A

Explanation:

Clearly, it is because children consider teachers as their model that they are more influenced by them. So, I is implicit. It is not necessary that the children are influenced by teachers because they spend much time in school. So, II is not implicit.

20) **Statement:** You know that your suit is excellent when people ask about your tailor who tailored the suit.

Assumptions:

- I. People do not ask about your tailor if your suit is not good.
- II. The people want to know the criterion of an excellent suit.

A) Only assumption I is implicit

B) Only assumption II is implicit

C) Either I or II is implicit

D) Neither I nor II is implicit

E) Both I and II are implicit

Answer: Option A

Explanation:

The statement mentions that if the people ask about the tailor, your suit is good. This means that people ask only in the situation when the thing is good. So, I is implicit. The criteria of an excellent suit is not mentioned. So, II is not implicit.

imolokti means misconduct

Which word could mean "statement"?

- a) *kratafoni* b) *kratadafta*
- c) *loktifoni* d) *daftaimo*

Answer: Option a

Explanation:

Dafta means advise; *foni* is the same as the suffix *-ment*; *imo* is the same as the prefix *mis-*; *lokti* means conduct. Since the only word in the answer choices that hasn't been defined is *krata*, it is reasonable to assume that *krata* means state. Therefore, *kratafoni* is the only choice that could mean statement.

9) Here are some words translated from an artificial language.

lelibroon means yellow hat

plekafroti means flower garden

frotimix means garden salad

Which word could mean "yellow flower"?

- a) *lelifroti* b) *lelipleka*
- c) *plekabroon* d) *frotibroon*

Answer: Option b

Explanation:

Leli means yellow; *broon* means hat; *pleka* means flower; *froti* means garden; *mix* means salad. Therefore, *lelipleka* means yellow flower.

10) Here are some words translated from an artificial language.

myncabel means saddle horse

conowir means trail ride

cabelalma means horse blanket

Which word could mean "horse ride"?

- a) *cabelwir* b) *conocabel*
- c) *almamyn* d) *conoalma*

Answer: Option a

Explanation: *Myn* means saddle; *cabel* means horse; *cono* means trail; and *wir* means ride. Therefore, *cabelwir* is the correct answer.

D) Both the statements I and II are effects of independent causes

E) Both the statements I and II are effects of some common cause

Answer: Option C

Explanation:

The two statements discuss two separate statistical and generalised results.

6) Statements:

- I. The school authority has asked the X Std. students to attend special classes to be conducted on Sundays.
- II. The parents of the X Std. students have withdrawn their wards from attending private tuitions conducted on Sundays.

A) Statement I is the cause and statement II is its effect

B) Statement II is the cause and statement I is its effect

C) Both the statements I and II are independent causes

D) Both the statements I and II are effects of independent causes

E) Both the statements I and II are effects of some common cause

Answer: Option A

Explanation:

It seems quite evident that the parents have instructed their wards to abstain from private tuitions on Sundays and attend special classes organised by the school.

7) Statements:

- I. The literacy rate in the district has been increasing for the last four years.
- II. The district administration has conducted extensive training programme for the workers involved in the literacy drive.

A) Statement I is the cause and statement II is its effect

B) Statement II is the cause and statement I is its effect

C) Both the statements I and II are independent causes

- B) Statement II is the cause and statement I is its effect
- C) Both the statements I and II are independent causes
- D) Both the statements I and II are effects of independent causes
- E) Both the statements I and II are effects of some common cause

Answer: Option E

Explanation:

The problems discussed in both the statements are clearly the result of heavy downpour in the area.

16)

Statements:

- I. The prices of vegetables have been increased considerably during this summer.
- II. There is tremendous increase in the temperature during this summer thereby damaging crops greatly.

- A) Statement I is the cause and statement II is its effect
- B) Statement II is the cause and statement I is its effect
- C) Both the statements I and II are independent causes
- D) Both the statements I and II are effects of independent causes
- E) Both the statements I and II are effects of some common cause

Answer: Option B

Explanation:

Clearly, damage to crops due to high temperature may have resulted in a short supply of vegetables and hence an increase in their prices.

17)

Statements:

- I. There is considerable reduction in the number of people affected by water-borne diseases in City A during this rainy season.
- II. The government has opened four new civil hospitals in City A in the beginning of the year.

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