

LVL 2 APTITUDE TEST 2-HITBULLS

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Question No: 1

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Sudhir invested Rs. 16,000 in a scheme which earned him simple interest @ 15 p.c.p.a. After two years he withdrew the principal amount plus interest and invested the entire amount in another scheme for two years, which earned him compound interest @ 12 p.c.p.a. What would be the total interest earned by Sudhir at the end of 4 year?

- Rs. 9,792
- Rs. 10,152.11
- Rs. 9,012.14
- None of these

Explanation

Hence, option D is the correct answer.

Correct answer is: D

Question No: 2

DIRECTIONS for the question: Answer the following question as per the best of your judgment.

Mr. Seth borrows Rs. 32,760 without interest and agrees to pay back in 12 monthly installments, each being twice the preceding one. Find the 2nd and the last installment.

- Rs. 60, Rs. 15,600
- Rs.16, Rs. 16,384
- Rs.32, Rs.15,560
- None of the above

Explanation

The installments will form a GP with common ratio 2. The sum of this GP is 32760
 $= a(2^{12} - 1) / (2 - 1)$.

Solving this equation yields $a = 8$.

Thus the 2nd installment is $8 \times 2 = 16$ and the last installment is $8 \times 2^{11} = 16384$.

Correct answer is: B

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Question No: 3

DIRECTIONS for the question: Solve the following question and mark the best possible option.

A chemical plant has four tanks (**A, B, C, and D**), each containing 1000 litres of a chemical. The chemical is being pumped from one tank to another as follows:

- From **A** to **B** @ 20 litres / minute.
- From **C** to **A** @ 90 litres / minute.
- From **A** to **D** @ 10 litres / minute.
- From **C** to **D** @ 50 litres / minute.
- From **B** to **C** @ 100 litres / minute.
- From **D** to **B** @ 110 litres / minute.

Which tank gets emptied first, and how long does it take (in minutes) to get empty after pumping starts?

- A, 16.66**
- C, 20**
- D, 20**
- D, 25**

Explanation Going by options, net flow to A= + 90 - 20 - 10 = + 60 litres/min.

⇒ It will never get emptied. Net flow to C = 100 - 90 - 50 = - 40 litres/min

⇒ It will get emptied in 25 min. As such there is no option.

New flow to D = 60 - 110 = -50 litres/min ⇒ it will be emptied in 20 min.

option C is the answer

Correct answer is: C

Question No: 4

DIRECTIONS for the question: Solve the following question and mark the best possible option.

If $[\log_{10}1] + [\log_{10}2] + [\log_{10}3] + [\log_{10}4] + \dots + [\log_{10}n] = n$, where $[x]$ denotes the greatest integer less than or equal to x , then

$96 \leq n < 104$

$104 \leq n < 107$

$107 \leq n < 111$

$111 \leq n < 116$

Explanation

From $[\log_{10}1]$ to $[\log_{10}9]$, everything is zero.

From $[\log_{10}10]$ to $[\log_{10}99]$, all of them are = 1.

So, there are 90 1's. $[\log_{10}100] = 2$.

Let the number of three digit numbers after 100 be x . Then, $90 + 2 + 2x = 100 + x$ i.e. $92 + 2x = 100 + x$ i.e. $x = 8$.

For $n = 108$. As that is covered in the values given in the 3rd option, hence that is the answer.

Correct answer is: C

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Question No: 5

DIRECTIONS for the question: Mark the best option.

A survey on 120 houses was done to see which of the 3 options AC, Refrigerator and Cooler were used. It was found in the survey that 60 had AC, 5 had AC & Cooler but without Refrigerator, 50 had Refrigerator, 25 had AC & Refrigerator but no Cooler, 45 had Cooler, 15 had Refrigerator & Cooler, 10 houses had all 3 options. What is the percentage of houses that had none of AC, Refrigerator or Cooler?

10

20

None of these

Explanation

Hence the answer is option D

Correct answer is: D

Question No: 6

DIRECTIONS for the question: Mark the best option:

None of these

Explanation

Correct answer is: B

Question No: 7

DIRECTIONS for the question: Mark the correct option:

For real number x , let

$$\begin{aligned}f(x) &= 1/(1+x), \quad \text{if } x \text{ is non-negative} \\&= 1+x, \quad \text{if } x \text{ is negative}\end{aligned}$$

$$f^n(x) = f(f^{n-1}(x)), n = 2, 3, \dots$$

What is the value of product, $f(2) f^2(2) f^3(2) f^4(2) f^5(2)$?

1/3

3

1/18

None of these

Explanation

Substitute $x = 2$ in the formula and we get $f(2) = 1/3$. Similarly we get $f^2(2) = 3/4, f^3(2) = 4/7, f^4(2) = 7/11, f^5(2) = 11/18$.

So the required value is $1/18$

Correct answer is: C

Question No: 8

DIRECTIONS for the question: Solve the following question and mark the best possible option.

A dealer buys a table listed at Rs 800 and gets two successive discounts of 20% and 10% respectively. He spends Rs 24 on transportation and sells it at a profit of 16.66%. Find the selling price of the table?

- 681
- 616
- 700
- None of these

Explanation

Cost price = $800 - 20\% \text{ of } 800 = 800 - 160 = 640$
next discount = $640 - 10\% \text{ of } 640 = 640 - 64 = 576$.
as he spends Rs 24 on transportation so
Total cost price = $576 + 24 = 600$.
So selling price = $600 + 16.66\% \text{ of } 600 = 600 + (1/6) \text{ of } 600 = 700$.

Correct answer is: C

Question No: 9

DIRECTION for the question: Solve the following question and mark the best option.
If 15 men or 24 women or 36 boys can do a piece of work in 12 days, working 8 hours a day, how many men must be associated with 12 women and 6 boys to do another piece of work 2 1/4 times as great in 30 days working 6 hours a day?

- 4
- 8
- 6
- 10

Explanation

If 15 men or 24 women or 36 boys can do a piece of work in 12 days, working 8 hours a day, how many men must be associated with 12 women and 6 boys to do another piece of work 2 1/4 times as great in 30 days working 6 hours a day?

Given, $15M = 24W = 36B$

$$\Rightarrow 12W = 15M/2 \text{ and } 6B = 15M/6$$

Let the number of men required = x

Solving

$$xM + 12W + 6B = xM + 15M/2 + 15M/6 = (x + 10) M$$

Applying chain rule,

$$(15M \times 12 \times 8) \times 9/4 = (x + 10) M \times 30 \times 6$$

Solving, $x = 8$

Correct answer is: B

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Question No: 10

DIRECTIONS for the question: Solve the following question and mark the best possible option.

A company producing brass alloy buys copper and zinc from another firm, the price of copper being twice that of zinc. The company sells the brass at Rs. 196 per kg, thereby making a profit of 40 %. If the ratio of copper to zinc in brass is 2 : 3 and brass contains only these two metals, find the cost price per kg of each metal.

- Rs.200, Rs.100
- Rs.140, Rs.70
- Rs.196, Rs.98
- Rs.100, Rs.50

Explanation

Ratio in which the cheaper(zinc) and dearer(copper) is mixed = 3 : 2. Let zinc be price at Rs. x per kg. so that copper is priced at Rs. 2x per kg. By applying the allegation rule,

$420 - 3x = 4x - 280 \quad 7x = 700, \quad x = 100$, Copper is Rs. 200 / kg and zinc is Rs. 100/kg.
Hence the answer is option A

Correct answer is: A

Question No: 11

DIRECTIONS for the question: *Mark the best option:*

One red, three white and two blue flags are arranged in a straight line such that no two adjacent flags have the same color. Also the flags at the end have different colors. In how many ways can such an arrangement of flags be made?

6

4

10

2

Explanation

There can be 6 possible arrangements

- 1) W B W B W R
- 2) W B W R W B
- 3) W R W B W B
- 4) B W B W R W
- 5) R W B W B W
- 6) B W R W B W

Correct answer is: A

Question No: 12

DIRECTION for the question: Solve the following question and mark the best possible option.

Of all the English movies made till date, 9 % were art movies, 35% were comedy movies, 40% were action movies and 16% were tragedy movies. Art and tragedy movies form what percentage of the comedy and action movies?

33.33%

75%

50%

25%

Explanation

$$\text{Art + Tragedy movies} = 9 + 16 = 25\%$$

$$\text{Comedy + Action} = 35 + 40 = 75\%$$

$$\text{So required percentage} = \frac{25}{75} \times 100 = 33.33\%$$

Correct answer is: A

Question No: 13

DIRECTIONS for the question: Solve the following question and mark the best possible option.

The length of the common chord of two intersecting circles is 24 cm. If the diameters of the circles are 30 cm and 26 cm, then the distance between the centres in cm is

13

14

15

16

Explanation

$$AB = 24 \text{ so } AD = (1/2) \times 24 = 12$$

$$OA = \text{radius of 1st circle} = 30/2 = 15$$

O'A = radius of IIInd circle = $26/2 = 13$

option B

Correct answer is: B

Question No: 14

DIRECTIONS for the question: Solve the following question and mark the best possible option.

The angles of depression and elevation of the top of a wall 24 m high from top and bottom of a tree are 60° and 30° respectively. The distance of the foot of tree from wall is _____.

- 41.56 m
- 56.21 m
- 32.42 m
- 36.52 m

Explanation

$$\begin{aligned}24/x &= \tan 30 \\x &= 24\sqrt{3} \\&= 24 \times 1.732 = 41.56\text{m}\end{aligned}$$

option A

Correct answer is: A

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Question No: 15

DIRECTIONS for the question: Mark the best option.

A trader has 50 kg of rice, a part of which he sells at 10 % profit and the rest at 5 % loss. He gains 7 % on the whole. How much was sold at 10 % gain and how much was sold at 5 % loss?

- 40 kg, 15 kg

- 30 kg, 10 kg
- 35 kg, 40 kg
- 40 kg, 10 kg

Explanation

Using Alligation Rule, we get

Thus, the trader should divide 50 kg rice in the ratio 4 : 1.

The quantity of rice sold at 10% profit should be 40 kg and at 5% loss should be 10kg.

Correct answer is: D

Question No: 16

DIRECTIONS for the question: Solve the following question and mark the best possible option.

A man left home at x minutes after 4 p.m. and returned home at y minutes after 6 p.m. to find that the hour hand and the minute hand of his watch had interchanged positions. What is the value of $(x - y)$?

- $31 \frac{67}{143}$
- $9 \frac{3}{13}$
- $21 \frac{94}{143}$
- $10 \frac{127}{143}$

Explanation

Correct answer is: B

Question No: 17

DIRECTIONS for the question: Solve the following question and mark the best possible option.

When Rs. 96 is divided among a particular number of friends, then each receive Rs. 4 more than when they would have received, if the number of friends were four less. Then the initial number of friends is

- 12
- 10
- 8
- 5

Explanation

Let initial no. of friends = x

When 96 divided among ' x ' friends, each will receive = Rs. $(96/x)$

If 96 divided among 4 less friends, then each will receive= Rs.(96/(x - 4))

$$96/(x - 4) - 96/x = 4 \Rightarrow 96(x - (x-4))/[x(x-4)] = 4$$

$$x(x-4) = 96$$

$$\Rightarrow x^2 - 4x - 96 = 0 \Rightarrow x^2 - 12x + 8x - 96 = 0$$

$$\Rightarrow x(x - 12) + 8(x - 12) = 0 \Rightarrow (x + 8)(x - 12) = 0$$

$$x = -8, 12 \quad \text{Initial no. of friends} = 12$$

Correct answer is: A

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Question No: 18

DIRECTIONS for the question: Solve the following question and mark the best possible option.

P, Q and R are the three towns on a river which flows from P to Q to R. I can row from P to Q in 2 hours but I can row from P to Q and back from Q to P 10 hours also I can row from P to R in 4 hours. Compare the speed of my boat in still water with that of the river.

5:3

4:1

6:5

7:3

Explanation

Correct answer is: A

Question No: 19

DIRECTIONS for the question: Solve the following question and mark the best possible option.

The sum of the squares of three positive integers a , b and c is also a perfect square. Which of the following cannot be the value of $a^2 + b^2 + c^2$?

15625

28561

33049

10000

Explanation

This question can be solved by trial and error. $15625 = 125^2 = 45^2 + 60^2 + 100^2$. $28561 = 169^2 = 25^2 + 60^2 + 156^2$. 33049 is not a perfect square and $10000 = 100^2 = 36^2 + 48^2 + 80^2$. Alternate solution: Suppose $a^2 + b^2 + c^2 = x^2$ and $a^2 + b^2 = d^2$. We can rewrite this as $a^2 + b^2 + c^2 = d^2 + c^2 = x^2$. This means that we can make use of Pythagorean triplets. $(a^2 + b^2) = d^2$ will yield a Pythagorean triplet (a, b, d) and $(d^2 + c^2) = x^2$ will yield a Pythagorean triplet (d, c, x) i.e. In the first example, having a knowledge of triplets it can be stated that $75^2 = 45^2 + 60^2$ and when it is $125^2 = 45^2 + 60^2 + 100^2$, it can be further thought of as $125^2 = 75^2 + 100^2$. So that method can also be applied.

So option C.

Correct answer is: C

Question No: 20

DIRECTION for the question: Solve the following question and mark the best possible option.

Shruti decided to donate 12% of her salary to an orphanage. On the day of donation she changed her mind and donated Rs. 3,150/- which was 75% of what she had decided earlier. How much is Shruti's salary?

Rs. 35,000/-

Rs. 42,500/-

Rs.39,100/-

Cannot be determined

Explanation

Let total salary be x

ATQ

$$0.75 \text{ of } 0.12x = 3150$$

$$x = 35000$$

So, the correct answer is option A.

Correct answer is: A

Question No: 21

DIRECTIONS for the question: Solve the following question and mark the best possible option.

There were 42 students in a hostel. Due to the admission of 13 new students, the expenses of the mess increase by Rs.31 per day while the average expenditure per head diminished by Rs.3. What was the original expenditure of the mess?

Rs.633.23

Rs.583.3

Rs.623.3

None of these

Explanation Let the total expenditure be Rs. x and average expenditure be Rs. y then,
 $42*y=x$

After admission of 13 students average becomes Rs($y-3$) and total expenditure becomes
Rs. $(x+31)$

$$\therefore 55(y-3)=x+31$$

$$55y-165=42y+31$$

$$13y=196 \Rightarrow y=196/13$$

$$x=42 * 196/13 = \text{Rs.} 633.23$$

So option A.

Correct answer is: A

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Question No: 22

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Rs. 5,887 is divided between Shyam and Ram, such that Shyam's share at the end of 9 years is equal to Ram's share at the end of 11 years, compounded annually at the rate of 5%. The share of Shyam is

Rs. 2,088

Rs. 2,000

Rs. 3,087

None of these

Explanation

Let Shyam's share be Rs s and Ram's share be Rs r .

We know, Amount = $P \times (1 + r/100)^n$

where, P = Principal

r = Rate of interest

n = Time Period

It is given that Shyam's share at the end of 9 years is equal to Ram's share at the end of 11 years.

$$\Rightarrow s \times (1.05)^9 = r \times (1.05)^{11}$$

$$\Rightarrow s/r = 441/400$$

Now, to find out the share of Shyam,

$$s = \{s/(s+r)\} \times \text{Total}$$

$$\Rightarrow (441/841) \times 5887 = \text{Rs. } 3087.$$

Hence, option C is the correct answer.

Correct answer is: C

Question No: 23

DIRECTIONS for the question: Solve the following question and mark the best possible option.

A survey was conducted on 2,260 people who have invested in either banks or businesses or shares. It showed that there are 1,361 people who invested in banks and 1,255 people who invested in businesses. 20 % of the total number of people surveyed invested in businesses and banks but not in shares. Find the number of people who invested in all the three types of investment options if 456, 407 and 288 people invested only in businesses or banks or shares respectively.

155

192

310

292

Explanation

Hence the answer is option B

Correct answer is: B

Question No: 24

DIRECTIONS for the question: Solve the following question and mark the best possible option.

If p, q, r are in G.P; then $\log_p n, \log_q n, \log_r n$ are in

H.P

G.P

A.P

AGP

Explanation

If p,q,r are three terms in GP then $q/p = r/q$. Taking log to the base n on both sides

$$\log_n q/p = \log_n r/q \Rightarrow \log_n q - \log_n p = \log_n r - \log_n q$$

This implies $\log_{10}p$, $\log_{10}q$, $\log_{10}r$ are in AP therefore the $\log_{10}p$, $\log_{10}q$, $\log_{10}r$ are in HP.
Option A

Correct answer is: A

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Question No: 25

DIRECTIONS for the question: Solve the following question and mark the best possible option.

The sides of a triangle are in the ratio $5 : 4 : 3$. Find the sides of this triangle, given that another similar triangle of corresponding sides 30, 24 and 18 cm has an area 9 times the area of the first triangle.

12, 10, 6 cm

10, 8, 6 cm

16, 12, 9 cm

15, 12, 9 cm

Explanation

Here, 30, 24, 18 is Pythagoras triplet. Therefore, base of the triangle is 18 cm and height is 24 cm.

Therefore, area of triangle is $\frac{1}{2} \times 18 \times 24 = 9$ times area of 1st triangle (say x).

Solving, we get $x = 24$.

Now, sides of the 1st triangle are in the ratio $5 : 4 : 3$,

Now, Let the sides be $5y$, $4y$ and $3y$.

So, the area of the 1st triangle = $\frac{1}{2} \times 4y \times 3y = x = 24$, $\Rightarrow y = 2$.

As the sides are in the ratio $= 5 : 4 : 3$, therefore, sides are 10, 8 and 6.

Hence, the correct answer is option 2.

Correct answer is: B

Question No: 26

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Ram and Shyam run a race between points **A** and **B**, 5 km apart. Ram starts at 9 a.m. from **A** at a speed of 5km/hr, reaches **B**, and returns to **A** at the same speed. Shyam starts at 9 : 45 a.m. from **A** at a speed of 10km/hr, reaches **B** and comes back to **A** at the same speed.

At what time does Shyam overtake Ram?

- 10:20 a.m.
- 10:30 a.m.
- 10:40 a.m.
- 10:50 a.m.

Explanation

Time taken by Ram = $5/5 = 1$ hour so he reaches B at 10 a.m.
and time taken by Shyam = $5/10 = 30$ minutes so he reaches B at 10:15 a.m.

Correct answer is: B

Question No: 27

DIRECTIONS for the question: Solve the following question and mark the best possible option.

The average age of 8 persons in a committee is increased by 2 years when two men aged 35 years and 45 years are substituted by two women. Find the average age of the two women

- 48
- 45
- 51
- 42

Explanation Let average = x and $n = 8$ so $S = 8x$

let ages of two women be a and b

as two men aged 35 years and 45 years are substituted by two women

so new sum = $8x - 35 - 45 + a + b$

new average = $x+2$

so $8x - 80 + a + b = 8(x+2)$

So average age of the two women = $(a+b)/2 = 96/2 = 48$.

Correct answer is: A

Question No: 28

DIRECTION for the question: Solve the following question and mark the best option

A bath tub can be filled by a cold water pipe in 20 minutes and by a hot water pipe in 30 minutes. A person leaves the bathroom after turning on both pipes simultaneously and returns at the moment when the bath tub should be full. Finding however, that the waste pipe has been open, he now closes it. In 3 minutes more the bath tub is full. In what time would the waste pipe empty it?

- 38 min
- 45 min
- 42 min
- 48 min

Explanation

Let the volume of bath tub = 60 units (LCM 20, 30)

Rate of flow of cold water pipe = $60/20 = 3$ units/min

Rate of flow of hot water pipe = $60/30 = 2$ units/min

Without waste pipe, bath tub should be fill in time = $60/(3 + 2) = 12$ mins

Let the time taken by waste pipe to empty the bath tube = t mins

Volume wated in 12 mins = $12 \times 60/t$

Also, that volume filled by both the pipes in 3 more mins = $(3 + 2) \times 3 = 15$ units

Solving, $12 \times 60/t = 15$

$$\Rightarrow t = 48 \text{ mins}$$

Correct answer is: D

Question No: 29

DIRECTIONS for the question: Answer the following question as per the best of your judgement.

- 45
- 90
- 120
- 180

Explanation

Correct answer is: C

Question No: 30

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Sea water contains 5% salt by weight. How many kilograms of fresh water must be added to 40 kg of sea water so that the salt content of the solution becomes 2% ?

- 60 Kg
- 50 Kg
- 40 Kg
- 55 Kg

Explanation

5% salt by weight means 2 kgs out of 40 kgs is salt.

Let x be the total amount of mixture

Therefore, 2% of $x = 2 \rightarrow x = 100$ kg

So the amount of fresh water to be added in the mixture is $100 - 40 = 60$ kg

Correct answer is: A

Question No: 31

DIRECTIONS for the question: Mark the best option.

A firm of readymade garments makes both men's and women's shirts. Its profit average is 6% of sales. Its profits in men's shirts average 8% of sales and women's shirts comprise 60% of output. The average profit per sales rupee in women's shirts is

- 0.047
- 0.066
- 0.016
- 0.038

Explanation

Correct answer is: A

Question No: 32

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Three natural numbers when divided by the same divisor D leave remainders of 29, 30 and 31 respectively. When the sum of these three numbers is divided by the same divisor, the remainder obtained is 26. Which of the following could be the values of the divisor?

- 24 and 64
- 32 and 64
- 32 and 48
- 48 and 64

Explanation

Suppose the numbers are

$$N_1 = Q_1D + 29,$$

$$N_2 = Q_2D + 30 \text{ and}$$

$$N_3 = Q_3D + 31.$$

$$\text{So, } N_1 + N_2 + N_3$$

$$= (Q_1 + Q_2 + Q_3) * D + (29 + 30 + 31)$$

$$= (Q_1 + Q_2 + Q_3) * D + 90.$$

When this sum is divided by D, the remainder is obtained from $90/D$.

Since the remainder is 26, we can write $90 = QD + 26 \Rightarrow QD = 90 - 26 = 64$.

Since the divisor must be greater than the largest remainder, we get

$$(Q, D) = (1, 64) \text{ or } (2, 32).$$

The best answer is option B.

Correct answer is: B

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Question No: 33

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Ram and Shyam run a race between points **A** and **B**, 5 km apart. Ram starts at 9 a.m. from **A** at a speed of 5km/hr, reaches **B**, and returns to **A** at the same speed. Shyam starts at 9 : 45 a.m. from **A** at a speed of 10km/hr, reaches **B** and comes back to **A** at the same speed.

At what time do Ram and Shyam first meet each other?

- 10:00 a.m.
- 10:10 a.m.
- 10:20 a.m.
- 10:30 a.m.

Explanation

Correct answer is: B

Question No: 34

DIRECTIONS for the question: Solve the following question and mark the best possible option.

A person spends $\frac{1}{7}$ th of his salary on travel, $\frac{1}{3}$ rd of the remaining on food, he then spends $\frac{1}{4}$ th of the remaining on rent. Finally he puts $\frac{1}{6}$ th of the remaining as a monthly savings, after which he has 25000 left. What is his salary (in Rs.) ?

- 70,000
- 14000
- 84000
- 26000

Explanation

Let M be the total salary

Therefore, as per question, $M \times \left(\frac{6}{7}\right) \times \left(\frac{2}{3}\right) \times \left(\frac{3}{4}\right) \times \left(\frac{5}{6}\right) = \text{Rs } 25000$
 $M = \text{Rs } 70000$

Correct answer is: A

Question No: 35

DIRECTIONS for the question: Solve the following question and mark the best possible option.

A rectangular tank measuring $5\text{m} \times 4.5\text{m} \times 2.1\text{ m}$ is dug in the centre of the field measuring $13.5\text{m} \times 2.5\text{m}$. The earth dug out is spread evenly over the remaining portion of the field. How much is the level of the field raised?

- 4m
- 4.1m
- 4.2m
- 4.3m

Explanation

The total area dug out is $5 \times 4.5 \times 2.1 = 47.25$

This area has to be spread in the area of $13.5 \times 2.5 - 5 \times 4.5 = 33.75 - 22.5 = 11.25$, (Area reduced because the sand wouldn't be spread on the tank area).

Therefore increase in height will be $(47.25)/(11.25) = 4.2 \text{ m}$.

option C

Correct answer is: C

Question No: 1

DIRECTIONS for the question: The question contains six statements followed by four sets of combinations of three. Choose the set, which gives the most logical triad. i.e. the third statement mentioned should be a conclusion drawn from the first two statement.

- A. All archaeologists are ornithologists
- B. Some anthropologists are archaeologists
- C. All ornithologists are anthropologists
- D. Some ornithologists are anthropologists
- E. No anthropologists are ornithologists
- F. Some anthropologists are not ornithologists

- ACF
- ACB
- BCF
- FDB

Explanation

In option 1, both statements A and C are *universal affirmative* and the concluding statement F is negative. This is not valid.

In option 2, both statements A and C are *universal affirmative* and the concluding statement F is *particular affirmative*. This is valid.

In option 3, statements B and C are *particular affirmative* and *universal affirmative* respectively and the concluding statement F is *negative*. This is not valid.

In option 4, both statements F and D are *particular* and therefore, no conclusion is possible.

Correct answer is: B

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Question No: 2

DIRECTIONS for the question: Solve the following question and mark the best possible option.

In a certain code language "lik dye pin" means "eat and drink", "pin bit sem" means, "drink hot milk" and "lik sem ani" means "milk and curd". What is the code for "eat"?

lik

dye

pin

Data inadequate

Explanation

'lik dye pin' means 'eat and drink'

'pin bit sem' means 'drink hot milk'

'lik sem ani' means 'milk and curd'

So 'pin' means 'drink', 'lik' means 'and', 'dye' means 'eat'. Hence second option is the answer.

Correct answer is: B

Question No: 3

DIRECTIONS for the question: Solve the following question and mark the most appropriate option.

In a row of girls, there are 16 girls between Priya and Natasha. Priya is 32nd from the left end of the row. If Priya is nearer than Natasha to the right end of the row, then how far away is Natasha from the left end of the row?

data inadequate

14th

15th

16th

Explanation

Since we are given that Priya is nearer to right end and there are 16 girls between Priya and Natasha , So we can draw this -

Now further it is given to us that Priya is 32nd from the left , Since Priya is 32nd therefore Natasha must be $32-16-1=15^{\text{th}}$ from the left. Hence third option.

Correct answer is: C

Question No: 4

DIRECTIONS for the question: In the question, some symbols are used which define the relationship between two categories. Using those, solve the question and mark

X - Y + Z may implies:

$$X + Y + Z$$

None of these

Explanation

Given : $X - Y + Z \Rightarrow X = Y \neq Z$

Going by options

(A) $X \neq Y \neq Z$ (B) $X < Y = Z$ (C) $X = Y < Z$

Option (C) may be one of the implication

Correct answer is: C

Question No: 5

DIRECTIONS for the question: Read the information given below and answer the question that follows.

Five men who were together in the Indo-Pak war were having a reunion. They are Whittaker, Brahmbhatt, Pendharkar, Havaldar and Nahar, who by occupation are printer, writer, barber, Naval officer and Hotel Manager. By coincidence, they live in the cities of Whitfield, Brahm Nagar, Pendharpur, Haveli and Naharabad, but no man lives in the city having a name similar to his name, nor does the name of his occupation have the same initial as his name or the name of the city in which he lives.

The barber does not live in Pendharpur, and Brahmbhatt is neither a Hotel Manager nor a printer – nor does he live in Pendharpur or Haveli. Havaldar lives in Naharabad and is

neither barber nor writer. Whittaker is not a resident of Brahmnnagar, nor is Nahar, who is not a barber nor a Hotel Manager.

Who is the Naval Officer?

Brahmbhatt

Pendharkar

Whittaker

Havaldar

Explanation

From the given information we can make the following table.

Name	Profession	City
Whittaker	Barber	Haveli
Brahmbhatt	Naval Officer	Whitfield
Pendharkar	Hotel Manager	Brahmnagar
Havaldar	Printer	Naharabad
Nahar	Writer	Pendharpur

Hence Brahmbhatt is Naval officer

Correct answer is: A

Question No: 6

DIRECTIONS for the question: Read the information given below and answer the question that follows.

Five men who were together in the Indo-Pak war were having a reunion. They are Whittaker, Brahmbhatt, Pendharkar, Havaldar and Nahar, who by occupation are printer, writer, barber, Naval officer and Hotel Manager. By coincidence, they live in the cities of Whitfield, Brahmnnagar, Pendharpur, Haveli and Naharabad, but no man lives in the city having a name similar to his name, nor does the name of his occupation have the same initial as his name or the name of the city in which he lives.

The barber does not live in Pendharpur, and Brahmbhatt is neither a Hotel Manager nor a printer – nor does he live in Pendharpur or Haveli. Havaldar lives in Naharabad and is neither barber nor writer. Whittaker is not a resident of Brahmnnagar, nor is Nahar, who is not a barber nor a Hotel Manager.

Who stays at Whitfield?

The naval officer

Havaldar

The Hotel Manager

Pendharkar

Explanation

From the given information we can make the following table.

Name	Profession	City
Whittaker	Barber	Haveli
Brahmbhatt	Naval Officer	Whitfield
Pendharkar	Hotel Manager	Brahmnagar
Havaldar	Printer	Naharabad
Nahar	Writer	Pendharpur

Hence Naval Officer lives in Whitfield.

Correct answer is: A

Question No: 7

DIRECTIONS for the question: Solve the following question and mark the most appropriate option.

Mohan is thirteen from the left end in a row of children. Prabir is twelfth from the right end and eighteenth from the left end. How many children are towards the right of Mohan in that row?

- 12
- 17
- 18

None of these

Explanation

The arrangement of students is

Since there are 29 children, there are 16 children to the right of Mohan.

Correct answer is: D

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Question No: 8

DIRECTIONS for the question: Answer the following question as per the best of your judgment.

Find out which of the answer figures, will exactly make up the question figure ?

Explanation

Or

One more logic can be applied. See the question figure. There are two squares/rectangles in the figure, so 8 sides for that and there are four smaller sides at the middle of the larger square/rectangle two horizontal and two vertical. Thus a total of 12 straight lines and one dot is needed, as that is given only in the first option, it becomes your answer.

Correct answer is: A

Question No: 9

DIRECTIONS for the question: In the following question a number series is given, after the series, below it, a number followed by (a), (b), (c), (d) is given you have to complete the series following the same sequence as that of the given series. Then answer the question.

- | | | | | |
|-----|-----|-----|-----|-----|
| 616 | 496 | 397 | 317 | 254 |
| 838 | (a) | (b) | (c) | (d) |

What will come in place of (d)?

428

619

476

529

Explanation

$$616 - 496 = 120, 496 - 397 = 99, 397 - 317 = 80, 317 - 254 = 63$$

Thus the differences between the numbers is

$$120 - 99 = 21, 99 - 80 = 19, 80 - 63 = 17,$$

And the differences of the differences are in A.P with common difference as -2

So following the same trend:

$$\text{Hence } 838 - 120 = 718,$$

$$718 - 99 = 619,$$

$$619 - 80 = 539,$$

$$539 - 63 = 476$$

Correct answer is: C

Question No: 10

DIRECTIONS for the question: In the question, some symbols are used which define the relationship between two categories. Using those, solve the question and mark

$$X - Y = Z$$

$$X \times Y - Z$$

None of these

Explanation

None of the options implies.

Correct answer is: D

Question No: 11

DIRECTIONS for the question: Read the information given below and answer the question that follows.

Tara has decided to tutor biology for the summer and is trying to plan her schedule. She can meet with up to two students a day, Monday through Friday, and has three students, Anu, Bhupesh, and Chirag. She needs to arrange her schedule according to the following constraints:

- I. Each student meets with Tara twice a week.
- II. No student meets with Tara twice in the same day.
- III. Anu refuses to meet with Tara on Fridays.
- IV. Chirag will never meet with Tara the day after Bhupesh has a lesson.
- V. Anu and Chirag meet with Tara on the same day exactly once a week.
- VI. If Anu meets with Tara on Monday, so does Bhupesh.

If Bhupesh is the only student to meet with Tara on a Wednesday and he also meets Tara on Thursday, on what days must Anu meet with her?

- Monday and Tuesday.
- Monday and Wednesday.
- Monday and Thursday.
- Tuesday and Thursday

Explanation

	Monday	Tuesday	Wednesday	Thursday	Friday
Anu		Yes		Yes	No
Bhupesh			Yes	Yes	
Chirag	Yes	Yes			

Since Anu and Chirag meet at least once in a week with Tara on the same day, so the answer is Tuesday and Thursday., since all the other options violate the conditions VI

Correct answer is: D

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Question No: 12

DIRECTIONS for the question: Read the information given below and answer the question that follows.

Tara has decided to tutor biology for the summer and is trying to plan her schedule. She can meet with up to two students a day, Monday through Friday, and has three students,

Anu, Bhupesh, and Chirag. She needs to arrange her schedule according to the following constraints:

- I. Each student meets with Tara twice a week.
- II. No student meets with Tara twice in the same day.
- III. Anu refuses to meet with Tara on Fridays.
- IV. Chirag will never meet with Tara the day after Bhupesh has a lesson.
- V. Anu and Chirag meet with Tara on the same day exactly once a week.
- VI. If Anu meets with Tara on Monday, so does Bhupesh.

If Anu is the only student to meet with Tara on Tuesday and no one meets with her on Friday, who meets with her on Wednesday?

Chirag

Anu and Chirag

Bhupesh

Anu and Bhupesh

Explanation

	Monday	Tuesday	Wednesday	Thursday	Friday
Anu		Yes	Yes		No
Bhupesh	Yes			Yes	No
Chirag			Yes		No

The only option that satisfies is 2nd option because if Chirag comes on Wednesday then Anu is bound to come on Wednesday and so Bhupesh can attend anywhere between Monday and Thursday, and Chirag on wednesday or Thursday.

Correct answer is: B

Question No: 13

DIRECTIONS for the question: The question below has either two or three statements followed by two or three conclusions. You have to take the given statements to be true and then decide which of the given conclusions logically follows from the given statements, disregarding the commonly known facts.

Statements : Some adults are bad. Some bad are bold.

Conclusions : I. Some adults are not bold.
II. Some bad are not bold.

If only conclusion I follows

If only conclusion II follows

If both conclusions follow

If neither of the two conclusions follows

Explanation

Correct answer is: D

Question No: 14

DIRECTIONS for the question: Solve the following question and mark the best possible option.

In a coded writing, “come at once father very ill” is written as “XLMNV ZG LMXY UYGSVI EVIB ROO”. What is the corresponding code for “mother”?

- NOGSVI
- NOTSVI
- NLGSVI
- NLGSTI

Explanation

The code are as follows: Come = XLMNV

At = ZG

Once = LMXY

Father = UYGSVI

Very = EVIB

Ill = ROO

Thus, m = N, o = L, t = G, h = S, e = V and r = I

Thus, Mother = NLGSVI

Hence, option C is the correct answer.

Correct answer is: C

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Question No: 15

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Deepak said to Nitin, "That boy playing with the football is the younger of the two brothers of the daughter of my father's wife." How is the boy playing football related to Deepak ?

- Nephew
- Brother
- Son
- Brother-in-law

Explanation

The boy playing football is son of Deepak's mother, so Brother.

Correct answer is: B

Question No: 16

DIRECTIONS for the question: The question below has either two or three statements followed by two or three conclusions. You have to take the given statements to be true and then decide which of the given conclusions logically follows from the given statements, disregarding the commonly known facts.

Statements : Some swords are small. All swords are rocks.

Conclusions : I. Some rocks are small.
II. Some rocks are not small.

- If only conclusion I follows
- If only conclusion II follows
- If both conclusions follow
- If neither of the two conclusions follows

Explanation

Hence only conclusion I follows.

Correct answer is: A

Question No: 17

DIRECTIONS for the question: Answer the following question as per the best of your judgment.

Find out which of the following answer figures will exactly make up the question figure ?

Explanation

Correct answer is: B

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Question No: 18

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Rohan walks a distance of 3 km towards North, then turns to his left and walks for 2 km. He again turns left and walks for 3 km. At this point he turns to his left and walks for 3 km. How many kilometres is he from the starting point ?

- 1 km
- 2 km
- 3 km
- 4 km

Explanation

Let S is starting point and E is End point
Required distance = 1 km

Correct answer is: A

Question No: 19

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Rani and Sarita started from a place X. Rani went West and Sarita went North, both travelling with the same speed. After sometimes, both turned their left and walked a few steps. If they again turned to their left, in which directions' the faces of Rani and Sarita will be with respect to X ?

- North and East
- North and West
- West and North
- East and South

Explanation

Rani is facing towards East and Sarita is facing towards South.

Correct answer is: D

Question No: 20

DIRECTIONS for the question: Analyse the graph/s given below and answer the question that follows.

As compared to 1973, how many regions have increased their share of crude oil production in 2001 by more than 75%?

- 0
- 1
- 3
- 4

Explanation

From the graph, we can estimate the percent shares and calculate values of crude oil production as follows.

Region	1973		2001	
	%	Qty	%	Qty
Africa	10	286	10.5	375
Asia	3	85	5	178
China	2	57	5	178
Europe	0.5	14	0.2	7
Latin America	9	257	10	357
Middle East	37	1058	30	1072
OECD	24	686	28	1000
USSR	15	429.15	12	428.88

China's shares in 1973 and 2001 were 2% and 5% respectively. This is an increase of more than 75%. It happens only in case of China. Hence answer is option B

Correct answer is: B

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Question No: 21

DIRECTIONS for the question: *The question is followed by two statements A and B. answer the question using the following instructions.*

If the question can be answered by using one of the statements alone, but cannot be answered using the other statement alone.

If the question can be answered by using either statement alone.

If the question can be answered by using both statements together, but cannot be answered using either statement alone.

If the question cannot be answered even by using both statements together.

Explanation

from I we get $x = 4$ and 16
and from II no sufficient data
so combinig both we get $x \leq 10$
so $x = 4$

Correct answer is: C

Question No: 22

DIRECTIONS for the question: *The question is followed by two statements A and B. answer the question using the following instructions.*

Mr. Mendel grew one hundred flowering plants from black seeds and white seeds, each seed giving rise to one plant. A plant gives flowers of only one colour. From a black seed comes a plant giving red or blue flowers. From a white seed comes a plant giving red or white flowers. How many black seeds were used by Mr. Mendel?

- A. The number of plants with white flowers was 10.
B. The number of plants with red flowers was 70.

If the question can be answered by using one of the statements alone, but cannot be answered using the other statement alone.

If the question can be answered by using either statement alone.

If the question can be answered by using both statements together, but cannot be answered using either statement alone.

If the question cannot be answered even by using both statements together.

Explanation

Correct answer is: D

Question No: 23

DIRECTIONS for the question: In the following series, one of the terms given is **wrong**. Find that term and mark that as your answer.

4, 10, 23, 50, 104, 216, 439

10

23

104

50

Explanation

The series is x^2+2 , x^2+3 , x^2+4 , x^2+5 , x^2+6 and so on. Thus, the incorrect number is 104 because it does not follow this pattern.

Correct answer is: C

Question No: 24

DIRECTIONS for the question: Analyse the graph/s given below and answer the question that follows.

The production of crude oil in Latin America in 2001 was more than its production of crude oil in 1973 by approximately (million tons)

40
50
100
250

Explanation

From the graph, we can estimate the percent shares and calculate values of crude oil production as follows.

Region	1973		2001	
	%	Qty	%	Qty
Africa	10	286	10.5	375
Asia	3	85	5	178
China	2	57	5	178
Europe	0.5	14	0.2	7
Latin America	9	257	10	357
Middle East	37	1058	30	1072
OECD	24	686	28	1000
USSR	15	429.15	12	428.88

The production of crude oil in Latin America in 2001 was approximately $357 - 257 = 100$ million tons more than the production in 1973. Hence answer is option C

Correct answer is: C

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Question No: 25

DIRECTIONS for the question: Read the information given below and answer the question that follows.

Tara has decided to tutor biology for the summer and is trying to plan her schedule. She can meet with up to two students a day, Monday through Friday, and has three students, Anu, Bhupesh, and Chirag. She needs to arrange her schedule according to the following constraints:

- I. Each student meets with Tara twice a week.
- II. No student meets with Tara twice in the same day.
- III. Anu refuses to meet with Tara on Fridays.
- IV. Chirag will never meet with Tara the day after Bhupesh has a lesson.
- V. Anu and Chirag meet with Tara on the same day exactly once a week.
- VI. If Anu meets with Tara on Monday, so does Bhupesh.

If Bhupesh is allowed to meet with Tara three times one week, on what days could he meet with her?

- Monday, Wednesday, Friday
- Monday, Tuesday, Wednesday
- Tuesday, Wednesday, Thursday
- Wednesday, Thursday, Friday

Explanation

If Bhupesh comes on Wednesday, Thursday, Friday, then Chirag can not come on Thursday and Friday but can come with Anu on Tuesdays and alone on Monday and Anu can come anywhere in between Wednesday and Thursday. Hence 4th is the correct Option.

Correct answer is: D

Question No: 26

DIRECTIONS for the question: In the question, some symbols are used which define the relationship between two categories. Using those, solve the question and mark

$$X \times Y - Z$$

$$X - Y \times Z$$

$$X + Y \times Z$$

$$X \times Y = Z$$

Explanation

option(3) may be one of the implication.

Correct answer is: C

Question No: 27

DIRECTIONS for the question: Analyse the graph/s given below and answer the question that follows.

How many regions produced less crude oil in 2001 than in 1973?

- 0
- 1
- 2
- 4

Explanation

From the graph, we can estimate the percent shares and calculate values of crude oil production as follows.

Region	1973		2001	
	%	Qty	%	Qty
Africa	10	286	10.5	375
Asia	3	85	5	178
China	2	57	5	178
Europe	0.5	14	0.2	7
Latin America	9	257	10	357
Middle East	37	1058	30	1072
OECD	24	686	28	1000
USSR	15	429.15	12	428.88

From the table we can see that Europe and USSR produced less crude oil in 2001 as compared to 1973.

Hence answer is option C

Correct answer is: C

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Question No: 28

DIRECTIONS for the question: Read the information given below and answer the question that follows.

Five men who were together in the Indo-Pak war were having a reunion. They are Whittaker, Brahmbhatt, Pendharkar, Havaldar and Nahar, who by occupation are printer, writer, barber, Naval officer and Hotel Manager. By coincidence, they live in the cities of Whitfield, Brahm Nagar, Pendharpur, Haveli and Naharabad, but no man lives in the city having a name similar to his name, nor does the name of his occupation have the same initial as his name or the name of the city in which he lives.

The barber does not live in Pendharpur, and Brahmbhatt is neither a Hotel Manager nor a printer – nor does he live in Pendharpur or Haveli. Havaldar lives in Naharabad and is neither barber nor writer. Whittaker is not a resident of Brahm Nagar, nor is Nahar, who is not a barber nor a Hotel Manager.

Determine the name of the city in which Nahar resides.

Naharabad

Pendharpur

Whitfield

Haveli

Explanation

From the given information we can make the following table.

Name	Profession	City
Whittaker	Barber	Haveli
Brahmbhatt	Naval Officer	Whitfield
Pendharkar	Hotel Manager	Brahm Nagar
Havaldar	Printer	Naharabad

Nahar	Writer	Pendharpur
-------	--------	------------

Hence Nahar resides in Pendharpur.

Correct answer is: B

Question No: 29

DIRECTIONS for the question: Read the information given below and answer the question that follows.

Tara has decided to- tutor biology for the summer and is trying to plan her schedule. She can meet with up to two students a day, Monday 'through Friday, and has three students, Anu, Bhupesh, and Chirag. She needs to arrange her schedule according to the following constraints:

- I. Each student meets with Tara twice a week.
- II. No student meets with Tara twice in the same day.
- III. Anu refuses to meet with Tara on Fridays.
- IV. Chirag will never meet with Tara the day after Bhupesh has a lesson.
- V. Anu and Chirag meet with Tara on the same day exactly once a week.
- VI. If Anu meets with Tara on Monday, so does Bhupesh.

If Anu meets with Tara on Monday and Wednesday, on what day-must Chirag meet with her?

- Monday
- Tuesday
- Wednesday
- Thursday

Explanation

	Monday	Tuesday	Wednesday	Thursday	Friday
Anu	Yes		Yes		No
Bhupesh	Yes				
Chirag	No	No	Yes		

Since Anu and Chirag meet exactly once in a week on the same day and each student can meet Tara only twice in a week so both of them meet on Wednesday.

Correct answer is: C

Question No: 30

DIRECTIONS for the question: Answer the following question as per the best of your judgment.

From the answer figures, find out the figure which is the exact mirror image of the question figure, when the mirror is placed on the line MN.

Explanation

Correct answer is: D

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Question No: 1

DIRECTIONS for the question: A sentence or a part of the sentence is underlined. Four alternatives are given as substitutions for the highlighted part, one of which will improve the sentence. Choose the correct alternative. In case no improvement is needed, choose the option “No improvement required”.

Jackie has already gone to the airport she will meet us at the check-in counter.

gone to the airport, Jackie will meet us

gone to the airport and she will meet us
gone to the airport, she ought to meet us
No improvement required

Explanation

Two independent clauses are joined with the conjunction 'and'.

Correct answer is: B

Question No: 2

DIRECTIONS for the question: Fill in the blank with the right options provided.

The accident was my fault, so I had to pay for the damage _____ the other car.

of
for
to
on

Explanation

The damage was caused 'to' the other car.

Correct answer is: C

Question No: 3

DIRECTIONS for the question: Read the passage and answer the question based on it.

The main idea conveyed by the report is that our children do not get a chance to enjoy learning at school because the syllabi are irrationally organized, the teaching is textbook centred and the system of examination instils fear and encourages mechanical repetition. Textbooks developed along the lines of reconceptualized syllabi can attempt to integrate positive values, life skills, aesthetic sensibility and concern for the environment. They are interactive and make conscious efforts to point both children and teachers towards other sources of learning such as neighbourhood; nature etc. in addition two parallel challenges deserve attention. The first is examination reforms. Rigid indifference to individual differences is the major flaw of the present system. From the quality of questions to the manner of evaluation, it favours drilled preparedness and ignores independent thought while the unrealistically high cut-offs in the colleges are further signs of inefficiency. It is hardly surprising that the very thought of the examinations makes the young depressed. Moreover, practices of splitting unified topics into arbitrary bits carrying small marks encourage the teachers to concentrate on scoring topics and overlooking the perspective and overall understanding. Little surprise that many high-fee schools are opting for international baccalaureate not because it offers status with its global certification but for its flexibility and respect for individual differences in learning.

The second area is teacher training, which suffers from obsolete notions. Most teachers are trained to cover the syllabus in a mechanical exam-oriented manner. By insisting that every child moves at the same pace in all subjects, teachers encourage rote learning and ridicule those who fall behind. Teacher training, whether for nursery or secondary school teachers, should be embedded in the courses which have the capacity to develop both teachers' personalities and perspectives on society by linking subject learning with reflective and creative project work. The ultimate responsibility lies with the universities and institutes of higher learning to ensure the quality of all the teachers. Initiatives to improve the content of the teacher training courses will ensure the utilization of the desolate university campuses during the summer vacation which conceals an enormous waste of infrastructure and expertise. The quality of education is the quality of teachers and the measure of improvements in their training and working condition will motivate the young people to pursue a teaching career and determine how India fares in the pursuit of economic and social development in the years to come.

What is the drawback of teacher training courses?

- They are held during summer vacations so attendance is low
- Content is being constantly changed so teachers cannot keep up
- Their focus is on imparting education only from an examination perspective
- They focus on making syllabi interactive rather than focusing on examination patterns

Explanation

As per 2nd Para, 'The second area is teacher training, which suffers from obsolete notions. Most teachers are trained to cover the syllabus in the mechanical exam-oriented manner'. Hence option C is the correct answer.

Correct answer is: C

Question No: 4

DIRECTIONS for the question: Read the passage and answer the question based on it.

The main idea conveyed by the report is that our children do not get a chance to enjoy learning at school because the syllabi are irrationally organized, the teaching is textbook centred and the system of examination instils fear and encourages mechanical repetition. Textbooks developed along the lines of reconceptualized syllabi can attempt to integrate positive values, life skills, aesthetic sensibility and concern for the environment. They are interactive and make conscious efforts to point both children and teachers towards other sources of learning such as neighbourhood; nature etc. in addition two parallel challenges deserve attention. The first is examination reforms. Rigid indifference to individual differences is the major flaw of the present system. From the quality of questions to the manner of evaluation, it favours drilled preparedness and ignores independent thought while the unrealistically high cut-offs in the colleges are a further sign of inefficiency. It is hardly surprising that the very thought of the examinations makes the young depressed. Moreover, practices of splitting unified topics into arbitrary bits carrying small marks encourage the teachers to concentrate on scoring topics and overlooking the perspective and overall understanding. Little surprise that many elite high-fee schools are opting for international baccalaureate not because it offers status

with its global certification but for its flexibility and respect for individual differences in learning.

The second area is teacher training, which suffers from obsolete notions. Most teachers are trained to cover the syllabus in a mechanical exam –oriented manner. By insisting that every child moves at the same pace in all subjects, teachers encourage rote learning and ridicule those who fall behind. Teacher training, whether for nursery or secondary school teachers, should be embedded in the courses which have the capacity to develop both teachers' personalities and perspectives on society by linking subject learning with reflective and creative project work. The ultimate responsibility lies with the universities and institutes of higher learning to ensure the quality of all the teachers. Initiatives to improve the content of the teacher training courses will ensure the utilization of the desolate university campuses during the summer vacation which conceals an enormous waste of infrastructure and expertise. The quality of education is the quality of teachers and the measure of improvements in their training and working condition will motivate the young people to pursue a teaching career and determine how India fares in the pursuit of economic and social development in the years to come.

Which of the following is NOT TRUE in the context of the passage?

- Examinations arouse negative emotions in students
- Weak students are at a disadvantage if teachers force students to learn at same speed
- Holding teacher training courses only during the academic year will help teachers cover the syllabus in an exam-oriented manner
- The responsibility for improving the quality of teachers lies in the hands of universities

Explanation

The 'favourable/ opportune time to be kept for the teachers' training should be vacations and not during the academic year as per the lines 'Initiatives to improve the content of the teacher training courses will ensure the utilization of the desolate university campuses during the summer vacation which conceals an enormous waste of infrastructure and expertise'. So option 3 is wrong.

Correct answer is: C

Question No: 5

DIRECTIONS for the question: Choose the option which is most **Similar** in meaning of the underlined word as used in the context of the sentence.

Persevere: He persevered in his task despite all odds.

- To persist
- Trivial
- Requisite
- Exalted

Explanation Persevere means to keep trying to do something in spite of difficulties.
So the meaning of the word is PERSIST

Correct answer is: A

Question No: 6

DIRECTIONS for the question: Choose the pair of words which best expresses the relationship similar to that expressed in the capitalized pair.

AVARICE : GENEROSITY

Blasphemy : Desecration

Bigotry : Bias

Belie : Falsify

Berate : Extol

Explanation The relationship between given is that of antonyms.

The similar relationship can be found in **option D**.

‘Berate’ means to scold harshly and ‘extol’ means to praise highly.

All other pairs have the relationship of synonyms

Correct answer is: D

Question No: 7

DIRECTIONS for the question: The first and the last sentences are placed correctly, arrange the remaining sentences to form a logical sequence and then choose the correct option.

1. Books are the best company.
- P. Through books we even see them as if they are really alive.
- Q. They also give us the best society.
- R. We hear what such great men said or did.
- S. They help us in establishing contact with many great men.
6. As we read, we share great thoughts with great men,

PQSR

QRSP

QSRP

SPQR

Explanation Sentence 1 should be followed by Q as it forms a mandatory pair of noun-pronoun with sentence 1. Next follows sentence S this sentence extends the information given in sentence Q. Sentence R follows S due to the keyword ‘men’. Sentence P talks of the same men that have been discussed in sentence R

Correct answer is: C

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Question No: 8

DIRECTIONS for the question: Read the passage and answer the question based on it.

The main idea conveyed by the report is that our children do not get a chance to enjoy learning at school because the syllabi are irrationally organized, teaching is text book centered and system of examination instills fear and encourages mechanical repetition. Textbooks developed along the lines of reconceptualized syllabi can attempt to integrate positive values, life skills, aesthetic sensibility and concern for the environment. They are interactive and make conscious efforts to point both children and teachers towards other sources of learning such as neighborhood; nature etc. in addition two parallel challenges deserve attention. The first is examination reforms. Rigid indifference to individual differences is the major flaw of the present system. From the quality of questions to the manner of evaluation, it favors drilled preparedness and ignores independent thought while the unrealistically high cut-offs in the colleges are further sign of inefficiency. It is hardly surprising that the very thought of the examinations makes the young depressed. Moreover, practices of splitting unified topics into arbitrary bits carrying small marks encourage the teachers to concentrate on scoring topics and overlooking the perspective and overall understanding. Little surprise that many elite high –fee schools are opting for international baccalaureate not because it offers status with its global certification but for its flexibility and respect for individual differences in the learning.

The second area is teacher training, which suffers from obsolete notions. Most teachers are trained to cover the syllabus in the mechanical exam –oriented manner. By insisting that every child move at the same pace in all subjects, teachers encourage rote learning and ridicule for those who fall behind. Teacher training, whether for nursery or secondary school teachers, should be embedded in the courses which have capacity to develop both teacher's personality and perspective on the society by linking subject learning with reflective and creative project work. The ultimate responsibility lies with the universities and institute of higher learning to ensure the quality of all the teachers. Initiatives to improve the content of the teacher training courses will ensure the utilization of the desolate university campuses during the summer vacation which conceal an enormous waste of infrastructure and expertise. The quality of education is the quality of teachers and measure of improvements in their training and working condition will motivate the young people to pursue a teaching career and determine how India fares in the pursuit of economic and social development in the years to come.

According to the author, which of the following conditions will influence India's future development?

- a. Replacing traditional educational systems with globally accepted foreign systems.
- b. Improving employment conditions of teaching staff.
- c. Getting global accreditation for Indian college courses.

only (a)

both (a) and (b)

Both (b) and (c)

only (b)

Explanation

As per the last few lines, 'The quality of education is the quality of teachers and measure of improvements in their training and working condition will motivate the young people to pursue a teaching career and determine how India fares in the pursuit of economic and social development in the years to come' **statement B is true.**

The lines 'Moreover, practices of splitting unified topics into arbitrary bits carrying small marks encourage the teachers to concentrate on scoring topics and overlooking the perspective and overall understanding. Little surprise that many elite high –fee schools are opting for international baccalaureate not because it offers status with its global certification but for its flexibility and respect for individual differences in the learning' make **statement A also true.**

So both A and B should be done to improve the education and hence the future of India.

As there is *no mention of statement C* in the passage so it cannot be taken as one of the initiatives to improve the educational system in India.

Correct answer is: B

Question No: 9

DIRECTION for the question: Answer the question based on the information given in the passage.

Establishing a Power of Attorney *occurs* when a legal document is created that gives one individual the authority to act for another. Which situation below is the best example of establishing a Power of Attorney?

Seeta is selling her house and she hires a lawyer to review the contract.

Geeta's mother can no longer get to the bank to cash her checks and make deposits, so she has taken legal steps to enable Geeta to do these things for her.

Meeta's mother is elderly and Meeta thinks she is no longer able to make decisions for herself.

At her daughter's urging, Seeta opens up a retirement account with the local bank.

Explanation

If she allows her daughter to proceed with the paper work, she gives her the power of attorney

Correct answer is: B

Question No: 10

DIRECTIONS for the question: For each of the words below, a contextual usage is provided. Pick the word from the alternatives given that is most appropriate in the given context.

We know booze can boost humor appreciation, since it lowers _____ decreases anxiety and increases positive mood.

Inhibition

Prudent

Virtuous

Moderate

Explanation According to the given sentence, the requisite word to fill the blank is INHIBITION (which means shyness or hesitation to do something).

Prudent means careful.

Virtuous means righteous.

Correct answer is: A

Question No: 11

DIRECTIONS for the question: Choose the word from the options which is **Opposite** in meaning to the given word.

Terse

Abrupt

Brief

Short

Lengthy

Explanation Terse is brief so the opposite will be lengthy

Correct answer is: D

Question No: 12

DIRECTIONS for the question: Choose the pair of words which best expresses the relationship similar to that expressed in the capitalized pair.

SQUALOR : MISERY

- Pacify : Enrage
- Opprobrium : Ignominy
- Nullify : Validate
- Jeopardy : Safety

Explanation

SQUALOR means the state of being extremely dirty and unpleasant, especially as a result of poverty or neglect.

The question pair are synonyms of each other.

The correct answer is **option B**

Opprobrium means disgrace arising from exceedingly shameful conduct or **ignominy**.

Rest all others are antonyms.

Correct answer is: B

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Question No: 13

DIRECTIONS for the question: Choose the option which is most **Similar** in meaning of the underlined word as used in the context of the sentence.

Declaim: He used to declaim verse to us with immense energy.

- Insignificant
- Entire
- Humble
- Proclaim

Explanation Declaim means utter or deliver words in a rhetorical or impassioned way, So PROCLAIM is correct.

Correct answer is: D

Question No: 14

DIRECTIONS for the question: Read the sentence to find out whether there is any grammatically error or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer.

Sadhana was one person/ who could somehow manage/ to working in the section for such a long time. /No error.

Sadhana was one person
who could somehow manage
to working in the section for such a long time.
No error.

Explanation

'To work' in place of 'to working' as a verb is required in place of a gerund.

Correct answer is: C

Question No: 15

DIRECTIONS for the question: For each of the words below, a contextual usage is provided. Pick the word from the alternatives given that is most appropriate in the given context.

However it must not be based on mere _____ or speculation.

Retrograde
Conjecture
Observant
Zealous

Explanation Speculation is the keyword and according to the sentence , a similar word is needed in the blank .

So the apt word is CONJECTURE.

Retrograde means to be traditional or conservative.

Zealous means enthusiastic.

Correct answer is: B

Question No: 16

DIRECTIONS for the question: Read the sentence to find out whether there is any grammatically error or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer.

When you turn to your right
you will find a big house
with a beautiful garden on the front side of it

and that is my residence

Explanation

The correct and more concise usage is 'garden in its front'.

Correct answer is: C

Question No: 17

DIRECTIONS for the question: Choose the most logical order of sentences from among the given choices to construct a coherent paragraph.

- A. Sugar treats were full of the "empty calories" all dieters had to eliminate.
- B. Foods high in sugar were dubbed "junk foods" - unappetizing designation for energy-rich but nutrient-thin products.
- C. Sugar first got its bad name, as fat did, because of its link with a degenerative disease, diabetes, with dental cavities, and above all, with overweight.
- D. At the heart of these terms was, it appeared, the curious assumption that a food that did nothing but feed you and provided no other nutrients was a bad food, a corollary to the increasingly prevalent notion that eating merely to eat was also "bad".
- E. In the seventies, attacks against sugar escalated.

EBADC

ACEBD

BCDEA

CAEBD

Explanation 'C' is the opening sentence as it says '-sugar' for the 'first time', which is introductory in nature. It talks about how 'sugar' got a bad name.

'A' also is on similar lines, it is an extension of 'C'.

'B' talks about how foods high in sugar were considered bad food that they were 'dubbed as'.

'D' follows 'B' as these terms' refers to "junk foods etc" of the previous sentence. Hence. 'BD' is, clearly a pair.

'E' connects 'CA' and 'BD' as it takes what 'C' and 'A' state forward by saying 'attacks escalated', which is what, is explained in 'B' .

Hence **CAEBD** is the right sequence.

Correct answer is: D

Question No: 18

DIRECTIONS for the question: Choose the pair of words which best expresses the relationship similar to that expressed in the capitalized pair.

VERVE: ENTHUSIASM

Loyalty : Duplicity

Devotion : Reverence

Intensity : Color

Eminence : Anonymity

Explanation

Verve and enthusiasm are synonyms, which mean passion.

Devotion and **reverence** are synonyms, which means deep respect.

Eminence is high station, rank, or repute.

Anonymity is the state or quality of being anonymous.

Correct answer is: B

Question No: 19

DIRECTIONS for the question: Read the passage and answer the question based on it.

Nothing is sure but death and taxes, and of course that north is north and south is south, and thus it has always been, so they say. But they'd be wrong. You can perhaps be sure about death and taxes, but you might want to reconsider the rest of it. In fact, at many times in our planet's history, north has become south and south has become north, in a process called magnetic reversal.

Paleogeologists have discovered the existence of these mysterious phenomena (in a field study known as paleomagnetism) by investigating rocks. When rocks are being formed from magmas, atoms within their crystals respond to the earth's magnetic field by "pointing" towards the magnetic north pole. By age-dating the rocks and noting their magnetic alignment, scientists can determine where on earth the north pole was located at that time because as the rocks solidified, they trapped that information within them. The study of ancient lava flows has revealed that at certain periods in the earth's history magnetic north was directly opposite its present location. In fact, it has been determined that the north/ south reversal has occurred on average every 500,000 years and that the last reversal took place about 700,000 years ago. Scientists call those periods of "normal" polarity (the magnetic orientation of our modern era) and "reversed" polarity (the magnetic orientation of reverse situation) by the name "Magnetic chron".

Although the fact of such reversal is clear, why and how they happen and their effects on the planet are subjects of considerable debate. Since no one knows precisely how the earth's magnetic field is produced, it becomes difficult to say how it might be reversed. Among explanations proposed are reversals of the direction of convention currents in the liquid outer core of the earth and a collision between earth and a meteorite or comet. While the precise effects of a reversal are not known, there can be little doubt that the earth would receive during the process a great deal more damaging ultraviolet radiation than it now does and those occurrences have been correlated with the extinction of certain species in the geologic past.

All the options are false except

If the earth collides with a meteorite, the magnetic field will be reversed

A magnetic reversal could present a great damage to humans

The earth's magnetic field was produced about 700,000 years ago

In spite of past reversals normal polarity is now firmly established

Explanation

Refer to lines, "While the precise effects of a reversal are not known, there can be little doubt that the earth would receive during the process a great deal more damaging ultraviolet radiation than it now does and those occurrences have been correlated with the extinction of certain species in the geologic past' we notice terms like—"deadly ultraviolet radiation", "extinction", which points out to option 2.

Correct answer is: B

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Question No: 20

DIRECTIONS for the question: Select the best option which completes the sentence (s) in the most meaningful manner

Dermatomyositis is a muscle disease characterized by inflammation and a skin _____.

- Rash
- Descend
- Deliberate
- Hearth

Explanation Dermatomyositis is an uncommon inflammatory disease marked by muscle weakness and a distinctive skin rash.

Hence option A is correct.

Correct answer is: A

Question No: 21

DIRECTIONS for the question: Choose the word from the options which is **Opposite** in meaning to the given word.

Myth

- Epic
- Fact
- Assumption
- Degrade

Explanation

Myth is an imaginary or fictitious thing or person.
Epic is heroic; majestic; impressively great.
Fact is something that actually exists; reality; truth.
Assumption is the act of taking for granted .
Degrade is to lower in character or quality.
So **FACT** is correct.

Correct answer is: B

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Question No: 22

DIRECTIONS for the question: Choose the word from the options which is **Opposite** in meaning to the given word.

Catch

Discover

Amiss

Grab

Accept

Explanation Catch is to seize or capture, especially after pursuit.

Discover to see, get knowledge of, learn of, find, or find out; gain sight or knowledge of something.

Amiss means out of the right or proper course, order, or condition; improperly; wrongly.

Grab is to seize suddenly or quickly; snatch.

Accept is to agree or consent to;

Correct answer is: B

Question No: 23

DIRECTIONS for the question: Choose the most logical order of sentences from among the given choices to construct a coherent paragraph.

- A. A subtle but significant shift from purely technological solutions is already underway as scientists argue openly for new directions in research.
- B. Solutions must evolve from a better understanding of the humans that drive the system and from a fuller appreciation of the limits and potential of the earth's resources.
- C. America's genius with high technology may have put men on the moon, but there is growing skepticism about its ability to solve human problems close to home.
- D. What this means is an increased emphasis on the life and earth sciences, on sociology, psychology, economics and even philosophy.
- E. A growing number of scientists insist that answers to the world's problems will not come from a flashier array of electronics and machines.

CAEBD

ADEBC

EABCD

CBDAE

Explanation 'C' is the opening sentence as it introduces us to the topic of discussion - that technology alone is not enough to find solutions to everything .

'A' follows as it also talks about 'purely technological solutions'.

'E' follows 'A' as it also talks about the argument of scientists-that sole reliance on technology will no give us all the answers. 'B' follows 'E' as it gives an alternative way of finding solutions.

'D' follows 'B' as that would mean is an extension of the alternative way mentioned in 'B'. Hence **CAEBD** is the right sequence.

Correct answer is: A

Question No: 24

DIRECTION for the question: Answer the question based on the information given in the passage.

The criminal justice system needs to change. The system could be more just if it allowed victims the opportunity to confront the person who has harmed them. Also, mediation between victims and their offenders would give the offenders a chance to apologize for the harm they have done.

This paragraph best supports the statement that victims of a crime should-

- learn to forgive their offenders and lead normal lives
- have the right to confront their offenders
- learn the art of mediation and negotiation
- insist that their offenders be punished the same way

Explanation This answer is clearly stated in the 2nd sentence of the paragraph. So **option B**.

Option A is ruled out as the lines do not mention that the victims should forgive their offenders.

As for option C, although mediation is mentioned, the statement does not indicate that

victims should be the mediators.
There is no support in the passage for option D.

Correct answer is: B

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Question No: 25

DIRECTIONS for the question: Fill in the blank with the right options provided.

Some orthodox persons are averse _____ drinking liquor.

- Against
- For
- Towards
- To

Explanation

Certain words are followed by particular prepositions only. 'Averse' is always followed by 'to'. Other words of this type are 'confirm to', 'comply with', 'absolve from' etc.

Correct answer is: D

Question No: 26

DIRECTIONS for the question: A sentence or a part of the sentence is underlined. Four alternatives are given as substitutions for the highlighted part, one of which will improve the sentence. Choose the correct alternative. In case no improvement is needed, choose the option "No improvement required".

The offer is very good so it just can't be true.

- so good to
- rather good
- too good to
- No, improvement

Explanation

A comparison is being made which can best be represented by option C, also to show the cause - effect one of the pairs used is 'too..... to'.

Correct answer is: C

Question No: 27

DIRECTION for the question: Answer the question based on the information given in the passage.

If you're a fitness walker, there is no need for a commute to a health club. Your neighborhood can be your health club. You don't need a lot of fancy equipment to get a good workout, either. All you need is a well-designed pair of athletic shoes.

This paragraph best supports the statement that-

- fitness walking is a better form of exercise than weight lifting and work out at gym.
- a membership in a health club is a poor investment.
- walking outdoors provides a better workout than walking indoors.
- fitness walking is a convenient and valuable form of exercise.

Explanation

Option D is the right answer

By stating that fitness walking does not require a commute to a health club, the author stresses the convenience of this form of exercise.

The paragraph also states that fitness walking will result in a good workout.

Option A is incorrect because no comparison to weight lifting is made.

Option B may seem like a logical answer, but the paragraph only refers to people who are fitness walkers, so for others, a health club might be a good investment.

Option C is not in the passage.

Correct answer is: D

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Question No: 28

DIRECTIONS for the question: Choose the option which is most **Similar** in meaning of the underlined word as used in the context of the sentence.

Fetter: He would not be fettered by bureaucracy.

- Fractional
- Reimbursement
- Confine
- Token

Explanation Fetter means to keep someone within limits or stop them from making progress.

So CONFINE is correct

Correct answer is: C

Question No: 29

DIRECTIONS for the question: Read the passage and answer the question based on it.

Nothing is sure but death and taxes, and of course that north is north and south is south, and thus it has always been, so they say. But they'd be wrong. You can perhaps be sure about death and taxes, but you might want to reconsider the rest of it. In fact, at many times in our planet's history, north has become south and south has become north, in a process called magnetic reversal.

Paleogeologists have discovered the existence of these mysterious phenomena (in a field study known as paleomagnetism) by investigating rocks. When rocks are being formed from magmas, atoms within their crystals respond to the earth's magnetic field by "pointing" towards the magnetic north pole. By age-dating the rocks and noting their magnetic alignment, scientists can determine where on earth the north pole was located at that time because as the rocks solidified, they trapped that information within them. The study of ancient lava flows has revealed that at certain periods in the earth's history magnetic north was directly opposite its present location. In fact, it has been determined that the north/ south reversal has occurred on average every 500,000 years and that the last reversal took place about 700,000 years ago. Scientists call those periods of "normal" polarity (the magnetic orientation of our modern era) and "reversed" polarity (the magnetic orientation of reverse situation) by the name "Magnetic chron".

Although the fact of such reversal is clear, why and how they happen and their effects on the planet are subjects of considerable debate. Since no one knows precisely how the earth's magnetic field is produced, it becomes difficult to say how it might be reversed. Among explanations proposed are reversals of the direction of convention currents in the liquid outer core of the earth and a collision between earth and a meteorite or comet. While the precise effects of a reversal are not known, there can be little doubt that the earth would receive during the process a great deal more damaging ultraviolet radiation than it now does and those occurrences have been correlated with the extinction of certain species in the geologic past.

According to the passage which of the following was crucial to the discovery of magnetic reversal?

- The rapid change from 'normal' to 'reversal' polarity
- Lava flows 'pointing' to magnetic north
- Solidification of rocks formed from magmas
- The extinction of certain species 700,000 years ago

Explanation

Refer to second paragraph describing the factor of solidification of rocks which plays quite an important role towards discovery of magnetic reversal.

Correct answer is: C

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Question No: 30

DIRECTIONS for the question: Fill in the blank with the right options provided.

My father was annoyed _____ me.

- Towards
- Against
- With
- Upon

Explanation

'Annoyed' must be followed by 'with'. One gets annoyed 'with' something/someone, not 'against', 'towards' or 'upon'.

Correct answer is: C

Question No: 31

DIRECTIONS for the question: Read the passage and answer the question based on it.

Nothing is sure but death and taxes, and of course that north is north and south is south, and thus it has always been, so they say. But they'd be wrong. You can perhaps be sure about death and taxes, but you might want to reconsider the rest of it. In fact, at many

times in our planet's history, north has become south and south has become north, in a process called magnetic reversal.

Paleogeologists have discovered the existence of these mysterious phenomena (in a field study known as paleomagnetism) by investigating rocks. When rocks are being formed from magmas, atoms within their crystals respond to the earth's magnetic field by "pointing" towards the magnetic north pole. By age-dating the rocks and noting their magnetic alignment, scientists can determine where on earth the north pole was located at that time because as the rocks solidified, they trapped that information within them. The study of ancient lava flows has revealed that at certain periods in the earth's history magnetic north was directly opposite its present location. In fact, it has been determined that the north/ south reversal has occurred on average every 500,000 years and that the last reversal took place about 700,000 years ago. Scientists call those periods of "normal" polarity (the magnetic orientation of our modern era) and "reversed" polarity (the magnetic orientation of reverse situation) by the name "Magnetic chron".

Although the fact of such reversal is clear, why and how they happen and their effects on the planet are subjects of considerable debate. Since no one knows precisely how the earth's magnetic field is produced, it becomes difficult to say how it might be reversed. Among explanations proposed are reversals of the direction of convection currents in the liquid outer core of the earth and a collision between earth and a meteorite or comet. While the precise effects of a reversal are not known, there can be little doubt that the earth would receive during the process a great deal more damaging ultraviolet radiation than it now does and those occurrences have been correlated with the extinction of certain species in the geologic past.

'Magnetic reversal' refers to

- The reversal of direction in ancient lava flows
- A reversal of the direction of convection currents in the outer core of the earth.
- North becoming south and south becoming north
- The atoms in rock crystal pointing towards the magnetic north pole

Explanation

Refer to lines "In fact, at many times in our planet's history, north has become south and south has become north, in a process called magnetic reversal", hence answer is option 3. It is not the flow of the lava but the alignment of the atoms in molten lava with respect to magnetic pole of the earth, so option 1 is factually wrong. Option 2 is not reversal but the after effect of the reversal, hence it is also rejected. Option 4 is one of outcomes of the magnetic reversal with respect to previous polarity.

Correct answer is: C

Question No: 32

DIRECTIONS for the question: Choose the pair of words which best expresses the relationship similar to that expressed in the capitalized pair.

Inspiration : Poetry :

Music : Notes

Dirt : Disease

Brush : Painting

Thought : Mind

Explanation

in the way that inspiration is the tool used for poetry, similarly brush is the tool used for painting.

Correct answer is: C

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Question No: 33

DIRECTIONS for the question: A sentence or a part of the sentence is underlined. Four alternatives are given as substitutions for the highlighted part, one of which will improve the sentence. Choose the correct alternative. In case no improvement is needed, choose the option "No improvement required".

The gypsies had left the village a few days ago.

have left

would have left

left

No improvement required

Explanation

For a past event, Past Simple should be used (unless otherwise indicated in the first clause). Therefore 'left' will be used.

Correct answer is: C

Question No: 34

DIRECTIONS for the question: Choose the option which is most **Similar** in meaning of the underlined word as used in the context of the sentence.

Landmark: Gateway of India is a Mumbai landmark.

Obscure

A prominent feature

Elemental

Trifling

Explanation Landmark means a building or an object that helps you identify a location or the boundary of a piece of land.

So option B is correct

Correct answer is: B

Question No: 35

DIRECTIONS for the question: A sentence is divided into four parts. Choose the part that is grammatically incorrect.

Once the earthquake has subsided, you are not yet out of danger;
often the electricity has gone out and it is dark,
however, striking a match or
any open flame in vicinity may cause a gas explosion.

Explanation Faulty parallelism. The gerundial phrase "striking a match" is not parallel with the noun phrase "any open flame." Moreover, the position of "striking" causes an ambiguity: Are open flames to be struck? To correct, replace the words "striking a match" with "a lit match".

Correct answer is: C

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