

LVL 2 ~APTITUDE TEST 3~HITBULLS

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Question No: 1

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

Rohit took a loan of Rs. 20,000 to purchase an LCD TV set from a finance company. He promised to make the payment after three years. The company charges compound interest at the rate of 10% per annum for the same. But, suddenly the company announces the rate of interest as 15% per annum for the last one year of the loan period. What extra amount does Rohit have to pay due to this announcement of the new rate of interest?

- Rs. 7,830
- Rs. 4,410
- Rs. 6,620
- None of these

Explanation

$$A = P(1+R/100)^T$$

Here $P = 20000$

$T = 3$ years

R for 1st case is 10 %

R for 2nd case is 15 %

$$\text{For case 1} = 20000(1+10/100)^3 = 26620,$$

$$\text{For case 2} = 20000(1+10/100)^2(1+15/100) = 27830.$$

So taking the difference = 1210.

So answer is option D.

Correct answer is: D

Question No: 2

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

If $\log 2$, $\log (2^x - 1)$ and $\log (2^x + 3)$ are in A.P, then x is equal to

$5/2$

$3/2$

Explanation

Correct answer is: B

Question No: 3

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

Three spherical balls of radius 1 cm, 2 cm and 3 cm are melted to form a single spherical ball. In the process, the loss of material is 25%. The radius of the new ball is

6cm

5cm

3cm

2cm

Explanation

Correct answer is: C

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Question No: 4

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

Three horses H_1 , H_2 and H_3 , entered a field which has seven portions marked P_1 , P_2 , P_3 , P_4 , P_5 , P_6 and P_7 . If no two horses are allowed to enter the same portion of the field, in how many ways can the horses graze the grass of the field?

- 195
- 205
- 185
- 210

Explanation

The first horse can enter any of the 7 portions in 7 ways

The second horse can enter in any of the remaining portions in 6 ways

The third horse can enter among remaining 5 portions in 5 ways

Total ways = $7 \times 6 \times 5 = 210$ ways

Alternatively,

The number of ways in which the 3 horses can graze 7 portions such that no two horses enter in the same portion = ${}^7P_3 = 210$ ways

Correct answer is: D

Question No: 5

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

- NU × T
- LOT × S
- SU × LN
- NE × NN

Explanation

Since R = 9 ends up giving LO, there must be a *carry over* of 1 from U + B = 5 + B and so L = 1 and O = 0.

Since $2O + T + S = R \Rightarrow 6 + S = 9 \Rightarrow S = 3$.

Also, since $A + 3N = 8 + 3N = E$ and a *carry over* of 1, the only possibility is $8 + 3N = 14$ so that N = 2 and E = 4. Finally, B = 7.

Using these values, we need to find the option which when divided by 42 will not leave a remainder of 24.

In option 1, $NU \times T = 25 \times 6 = 150$ and $150/42$ leaves remainder 24.

In option 2, $LOT \times S = 106 \times 3 = 318$ and $318/42$ leaves remainder 24.

In option 3, $SU \times LN = 35 \times 12 = 420$ and $420/42$ leaves no remainder.

In option 4, $NE \times NN = 24 \times 22 = 528$ and $528/42$ leaves remainder 24.

Hence option 3.

Correct answer is: C

Question No: 6

DIRECTIONS for the question: Mark the correct option

If $a_1 = 2$, $a_2 = 3$ and $a_{n+2} + a_n = 2a_{n+1} + 1$, for every positive integer n , then a_{51} equals

- 1,277
- 1,275
- 1,127
- 1,126

Explanation

$a_3 + a_1 = 2a_2 + 1$ i.e. $a_3 = 2a_2 - a_1 + 1$ and
 $a_4 + a_2 = 2a_3 + 1$ i.e. $a_4 = 2a_3 - a_2 + 1$
 $= 2[2a_2 - a_1 + 1] - a_2 + 1 = 3a_2 - 2a_1 + (1 + 2)$.
 $a_5 = 2a_4 - a_3 + 1 = 2[3a_2 - 2a_1 + (1 + 2)] - a_3 + 1$
 $[2a_2 - a_1 + 1] + 1 = 4a_2 - 3a_1 + (1 + 2 + 3)$
 $a_n = (n - 1)a_2 - (n - 2)a_1 + [1 + 2 + 3 + \dots + (n - 2)]$.
So, $a_{51} = 50a_2 - 49a_1 + [1 + 2 + 3 + \dots + 49]$
 $= 50(3) - 49(2) + 49(50)/2$.
 $= 150 - 98 + 1,225 = 1,277$.

Correct answer is: A

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Question No: 7

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

Anand travelled 300 km by train and 200 km by taxi. It took him 5 hours and 30 minutes. However, if he travels 260 km by train and 240 km by taxi, he takes 6 minutes more. The speed of the train is

- 100 km/h
- 120 km/h
- 80 km/h
- 110 km/h

Explanation

Let x & y be the speeds of Train and Taxi resp. $[(300/x)+(200/y)]=5.5$ and

$$[(260/x)+(240/y)]=5.6.$$

On solving this we get, $x = 100\text{km/hr.}$

Correct answer is: A

Question No: 8

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

4-digit positive integers are formed by using the digits 1, 2, 3, 4 and 5 exactly once. If all the numbers formed are multiplied, how many consecutive zeroes will the product end in?

24

39

34

18

Explanation

Correct answer is: C

Question No: 9

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

A tower stands at the end of a straight road. The angles of elevation of the top of the tower from two points on the road 500 m apart are 45° and 60° respectively. Find the height of the tower.

$$(500 \sqrt{3})/(\sqrt{3} - 1)\text{m}$$

$$5000\sqrt{3}\text{m}$$

$$(500\sqrt{3})/(\sqrt{3} + 1)\text{m}$$

$$450\sqrt{3}\text{m}$$

Explanation

Correct answer is: A

Question No: 10

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

There were a hundred schools in a town. Of these, the number of schools having a play-ground was 30, and these schools had neither a library nor a laboratory. The number of schools having a laboratory alone was twice the number of those having a library only. The number of schools having a laboratory as well as a library was one fourth the number of those having a laboratory alone. The number of schools having either a laboratory or a library or both was 35.

What was the ratio of schools having laboratory those having library?

- 1 : 2
- 5 : 3
- 2 : 1
- 2 : 3

Explanation

Total number of schools that had at least one of the three = $65 = 30 + x + 2x + x/2$
Hence $x = 10$

Number of schools having library = 15
And number of schools having laboratory = 25
Hence the ratio = $25 : 15 = 5 : 3$

Correct answer is: B

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Question No: 11

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

Mohammed writes a number of songs in a month. 30% of those are tragic songs. Of the remaining one seventh are romantic and the rest are bhajans. What percentage of the total songs is the bhajans?

- 60%
- 50%
- 10%
- 70%

Explanation

Let the total number of songs written = 100

So tragic songs = 30

Romantic songs = $1/7$ of $(100 - 30) = 10$

So Bhajan's = $100 - 30 - 10 = 60$.

Correct answer is: A

Question No: 12

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

A sum of Rs. 1,550 was lent partly at 5% and partly at 8% per annum simple interest. The total interest received after 3 years was Rs. 300. The ratio of money lent at 5% to that lent at 8% is

- 5 : 8
- 8 : 5
- 31 : 6
- 16 : 15

Explanation

Partly division of 1550 is x and $1550 - x$

$5\% \text{ of } x + 8\% \text{ of } (1550 - x)$

$$= 0.05x + 0.08(1550 - x)$$

For 3 years, the total interest is 300.

$$3[0.05x + 0.08(1550 - x)] = 300$$

$$x = 800 \text{ and } 1550 - x = 750$$

The ratio of money = 16:15.

Correct answer is: D

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Question No: 13

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

- 1
- 2
- 3
- None of these

Explanation

Correct answer is: B

Question No: 14

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

Two pipes P and Q would fill a cistern in 24 and 32 minutes, respectively. Both pipes are kept open. When should the first pipe be turned off so that the cistern may be just filled in 16 minutes?

- After 10 minutes
- After 12 minutes
- After 14 minutes
- None of these

Explanation

Let the volume of cistern = 96 units (LCM 24, 32)

P's rate of flow = $96/24 = 4$ units/min

Q's rate of flow = $96/32 = 3$ units/min

Let the time after which the 1st pipe, P is turned off = t mins

Given, $P \times t + 3 \times 16 = 96$

Solving, $t = 12$ mins

Correct answer is: B

Question No: 15

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

Both roots of the quadratic equation $x^2 - 33x + k = 0$ are prime. Find the possible value of k .

95

33

-62

None of these

Explanation Let a, b be 2 prime roots of equation. Sum of roots $= a + b = 33$. Since 33 is odd & sum of two primes. So, one of the primes is 2 and the other is 31. Thus there is exactly one possible value of $k = 2 * 31 = 62$. So, answer is 4th option.

Correct answer is: D

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Question No: 16

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

A chartered bus carrying office employees travels everyday in two shifts – morning and evening. In the evening, the bus travels at an average speed which is 50% greater than the morning average speed; but takes 50% more time than the amount of time it takes in the morning. The average speed of the chartered bus for the entire journey is greater / less than its average speed in the morning by:

18% less

30% greater

37.5% greater

50% less

Explanation Morning speed = 100kmph.
Evening speed = 150kmph.
Morning time = 1hr. Evening time = 1.5hrs
Distance in the morning = $100 \times 1 = 100$ km
Distance in the evening = $150 \times 1.5 = 225$ km

Correct answer is: B

Question No: 17

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

A triangle has sides of lengths 12, 26 and x , where x is a positive integer. For how many values of x , does the triangle have three acute angles?

- 3
- 4
- 5
- 6

Explanation

Correct answer is: C

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Question No: 18

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

Even after giving a discount of 20% to a customer, a shopkeeper earns a profit of 20%. What would have been his profit had he sold it at marked price?

- 40%
- 50%

20%

33.33%

Explanation

So clearly, profit on selling at MP is 50%

Correct answer is: B

Question No: 19

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

Mr. A and Mr. B went to an airport lounge. There are two seats vacant in the whole area. Depending upon their individual speed and the time taken in security check etc, the probability of Mr. A getting the seat is $\frac{1}{3}$ and the probability of Mr. B getting the seat is $\frac{1}{5}$. Find the probability that only one of them gets the seat.

$\frac{3}{5}$

$\frac{2}{5}$

$\frac{1}{3}$

$\frac{1}{5}$

Explanation

We are interested in the case where one of them gets a seat and the other doesn't.

The probability of A not getting seat is $=1-\frac{1}{3} = \frac{2}{3}$

The probability of B not getting seat is $=1-\frac{1}{5} = \frac{4}{5}$

The required probability is $(\frac{1}{3} \times \frac{4}{5}) + (\frac{2}{3} \times \frac{1}{5}) = \frac{2}{5}$.

Correct answer is: B

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Question No: 20

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

The average age of a husband and wife was 27 years when they married 4 years ago. The average age of the husband, the wife and a newborn child is 21 years now. The present age of the child is

- 4 years
- 3 years
- 2 years
- 1 year

Explanation The average age of a husband and wife was 27 years when they married 4 years ago ($H+W/2 = 27$)

$$H+W=54.$$

4 years ago, Sum of Husband and wife is 54. Therefore, Sum of their present ages=
 $54+4+4=62 \dots \dots \dots \text{(i)}$

The average age of the husband, the wife and a newborn child is 21 years now ($H+W+C/3 = 21$)

$$H+W+C=63$$

From (i)

$$62+C=63$$

$$C=63-62=1 \text{ year.}$$

Correct answer is: D

Question No: 21

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

- 130^0
- 120^0
- 140^0
- 110^0

Explanation

Correct answer is: B

Question No: 22

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

A man buys a property which appreciates 10% in value from the previous year value. Find what percentage the property worth has increased at the end of these 3 years.

30%

- 33.1%
- 25%
- 35%

Explanation

Let the initial value of the property = 100

So value after 10% appreciation in 3 years = $100 \times 1.1 \times 1.1 \times 1.1 = 133.1$.

So change = 33.1.

Correct answer is: B

Question No: 23

DIRECTIONS for the question: Mark the best option.

A reservoir is filled by two pipes A and B. A can fill the reservoir 5 hours faster than B. If both together fill the reservoir in 6 hours, the reservoir will be filled by A alone in

- 10 hours
- 12 hours
- 8 hours
- 11 hours

Explanation

Correct answer is: A

Question No: 24

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

A shopkeeper marks his goods such that even after giving a scheme of 1 free on every 9 to the customers he gains 20%. If he sells each article for Rs 100 then find his cost price?

- Rs. 75
- Rs. 80
- Rs. 83
- Cannot be determined

Explanation

Total selling price = 900, since he will receive money only for 9 articles. So $cp = 100/120 \times 900 = 750$. Now the shopkeeper has given total 10 articles from his shop so he will consider the profit on cp of 10 articles hence cp of 1 article = 75.

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.

A, B and C are the three contestants in a km race. If A can give B a start of 40 metres and A can give C a start of 64 metres, how many metres start can B give C?

- 20m
- 25m
- 35m
- None of these

Explanation

The question means that when A covers 1000 m, B covers 960 m and C covers 936 m. Now when B covers 960 m, C covers 936 m. So when B covers 1000 m, C would cover $936/960 * 1000 = 975$ m. So this means that B can give C a start of 25m.

So option B.

Correct answer is: B

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Question No: 26

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

There are two vessels of equal capacity, one full of milk, and the second one-third full of water. The second vessel is then filled up out of the first, the contents of the second are then poured back into the first till it is full and then again the contents of the first are poured back into the second till it is full. What is the proportion of milk in the second vessel?

Explanation

Let us assume the volume of each vessel to be 27 litres. Thus Ist contains 27lt milk & second contains 9 lt. water.

Now, after the initial transfer, the contents in second vessel are 9 lt. water & 18 lt. Milk.

After the second transfer, the contents in the first vessel are 21lt. milk & 6lt. water.

Finally, the contents in the second vessel after third transfer are 20lt. milk and 7lt. water.
Thus, Proportion of milk in second vessel is 20/27.

Correct answer is: B

Question No: 27

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

If x and y are positive integers satisfying $17x + 8y = 3051$, what is the sum of the maximum and minimum difference between values of x and y ?

331

375

394

575

Explanation

Correct answer is: B

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Question No: 28

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

There were a hundred schools in a town. Of these, the number of schools having a play - ground was 30, and these schools had neither a library nor a laboratory. The number of schools having a laboratory alone was twice the number of those having a library only. The number of schools having a laboratory as well as a library was one fourth the number of those having a laboratory alone. The number of schools having either a laboratory or a library or both was 35.

How many schools had none of the three viz., laboratory, library or play - ground?

- 20
- 5
- 30
- 35

Explanation

$$\text{Now } x + 2x + x/2 = 35 \Rightarrow x = 10.$$

$$\text{Total number of schools that had at least one of the three} = 30 + x + 2x + x/2 = 30 + 35 = 65$$

$$\text{Hence number of schools having none of the them} = 100 - 65 = 35.$$

Correct answer is: D

Question No: 29

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

The speed of a river is 5 kmph. If a person can travel 13 km upstream and 39 km downstream in equal amounts of time, then find the speed of the person?

- 20 kmph
- 30 kmph
- 40 kmph
- None of these

Explanation

Let the speed of the boat in still water be S_B and speed of the river be S_R .

$$S_R = 5 \text{ kmph}$$

Since time taken to go 13 km upstream = time taken to go 39 km downstream

$$\Rightarrow 13/S_U = 39/S_D$$

$$\text{Thus, } 13/(S_B - S_R) = 39/(S_B + S_R)$$

$$\text{Or, } S_B + S_R = 3(S_B - S_R)$$

$$\text{Or, } S_B + 5 = 3S_B - 15$$

$$\text{Or, } S_B = 20/2 = 10 \text{ kmph}$$

Hence, option D is the correct answer.

Correct answer is: D

Question No: 30

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

In an AP, the ratio of the 7th term to the 10th term is -1. If the 16th term is -15, what is the 3rd term?

- 11
- 13
- 11
- 13

Explanation

Suppose the first term is a and the common difference is d . Then the 7th term and the 10th term are $(a + 6d)$ and $(a + 9d)$ respectively.

$$\text{So, } (a + 6d) / (a + 9d) = -1.$$

Simplifying this ratio gives $2a + 15d = 0$.

The 16th term is $a + 15d = -15$.

Solving these as simultaneous equations yields

$$a = 15 \text{ and } d = -2.$$

$$\text{The 3rd term is } a + 2d = 15 - 4 = 11.$$

Correct answer is: A

Question No: 31

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

Explanation

Correct answer is: A

Question No: 32

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

Two liquids A and B are in the ratio 5 : 1 in container 1 and 1 : 3 in container 2. In what ratio should the contents of the two containers be mixed so as to obtain a mixture of A and B in the ratio 1 : 1?

- 2: 3
- 4: 3
- 3: 2
- 3: 4

Explanation

Correct answer is: D

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Question No: 33

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

Ram buys a car for Rs 2,75,000 and sells it at a profit of 10% to Sham. Sham decides to sell the car at a profit of 8 percent but accidentally damages the car and hence it sells only for Rs 2,78,300. Find the percent loss Sham has incurred?

- 5%
- 8%
- 10%
- None of these

Explanation

Correct answer is: B

Question No: 34

DIRECTIONS for the question: Study the following information and answer the question that follows.

If a, b, c and d are four distinct natural numbers, each of which has exactly five factors, find the number of the factors of the product of a, b, c and d .

- 17
- 256
- 625
- Cannot be determined

Explanation

If a, b, c, d have five factors each, then they are all fourth powers of prime numbers. Hence the number of the factors of the product of a, b, c and d are $(4+1)(4+1)(4+1)(4+1)$, i.e. 625 factors.

Thus, answer choice 3 is correct.

Correct answer is: C

Question No: 35

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

Three pipes P, Q, R can fill a tank in 4, 8 and 12 hours respectively, while another pipe S can drain it in 10 hours. Which arrangement will fill the tank in the least possible time?

- Q alone is opened
- P and S are opened together
- P, R and S are opened together
- Q, R and S are opened together

Explanation

Suppose the volume of the tank is 120 litres. In 1 hour, P, Q and R can fill 30, 15 and 10 litres respectively while S can empty 12 litres. From this, the effective per hour rates(putting the values in option),
for eg in option pipe

$$\begin{aligned}Q &= 15, \\P \text{ and } S &= 30 - 12 = 18. \\P, R, S &= 30 + 10 - 12 = 28. \\Q, R, S &= 15 + 10 - 12 = 13.\end{aligned}$$

Thus for answer choices *a* to *d*, the rates are 15, 18, 28 and 13 litres per hour respectively. Thus if the combination from the option are used to find the time i.e $120/\text{rate}$, the times taken will be 8, 6.66, 4.28 and 9.23 hours respectively. Hence option C.

Correct answer is: C

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Question No: 1

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 blues are blacks. All whites are blues.

Conclusions: I) Some blues are whites II) Some whites are blacks III) Some blacks are whites

Only I

I &II

I & III

II

Explanation

As per statement All whites are blues, therefore some blues are whites. Hence Conclusion I is true while Conclusion II & III are not necessarily true.

Correct answer is: A

Question No: 2

DIRECTIONS for the question: What should come in place of question mark (?) in the following number/alphabetic series?

BD3FH, AC5EG, JL7NP, __?

IK9MO

IK12MO

IK13MO

IK17MO

Explanation

Just follow the digit in the middle, 3, 5, 7.

So for answer it should be 9 which is only in 1st option.

Besides that it should be solved like that only because alphabets used are same in all the options.

Correct answer is: A

Question No: 3

DIRECTIONS for the question: Read the following information and choose the best alternative:

Following are the criteria required to be fulfilled to gain admission into any engineering college in Delhi.

i) The candidate should have secured at least 60% marks in HSC or 50% marks in CBSE.

ii) a) The candidate should have pass in HSC with academic subjects namely Mathematics, Physics and Chemistry put together with a minimum average percent are only eligible to apply.
(or)

b) A pass in any one of the HSC vocational subjects with any one of the Engineering related subjects namely Mathematics, Physics or Chemistry with a minimum average percent are also eligible to apply.

- iii) The candidate should be a resident of Delhi i.e. the candidate who has passed XI and XII std. in Delhi.
- iv) The candidate should have secured at least 60% marks in the entrance exam.
- A) At i) above, but the candidate has good sports record, the candidate is admitted under sports quota.
- B) At iii) above, but their parents or guardians have been serving in Delhi continuously for the past five years at the time of admissions. They are also eligible to apply and the candidates are admitted under other state quota. In each question below details of one candidate is given. You have to take one of the following course of action based on the information provided and the conditions and sub- conditions given above and mark the number of that course of action as your answer. You are not to assume anything other than the information provided in each question. All these cases are given to you as on 01.10.2017.

Aman was born and brought up in Uttar Pradesh. He Secured 60% marks in CBSE with academic subjects. He secured 50% marks in entrance exam.

If admission can be granted

If admission cannot be granted

If the data are inadequate to take a decision

If the candidate is admitted under sports quota

Explanation Aman does not satisfy the condition (iii) and (iv). So, admission cannot be granted for him.

Correct answer is: B

Question No: 4

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

It in a certain code 'nee tim see' means 'how are you', 'ble nee see' means 'where are you'? What is the code for 'where'?

see

tim

nee

ble

Explanation

As the meaningful words 'are you' are repeated in both the sentences then their codes must also be repeated which are 'nee see' so we can say that the code left in the second sentence will be 'ble'. Hence option 4.

Correct answer is: D

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Question No: 5

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

If in a certain language 'rom pom to' means 'girl is bad', 'main to tee' means 'boy is ugly' and 'dum pom po' means 'they are bad', which word in that language means 'girl'?

- to
- tee
- pom
- rom

Explanation rom pom to = Girl is Bad

Main to Tee = Boy is ugly

$$\Rightarrow \text{to} \equiv \text{is}$$

dum pom po = they are Bad

$$\Rightarrow \text{pom} \equiv \text{bad}$$

Thus rom \equiv Girl

Correct answer is: D

Question No: 6

DIRECTIONS for the question: Read the following information carefully and answer the question given below:

A famous museum issues entry passes to all its visitors for security reasons. Visitors are allowed in batches after every one hour. In a day there are six batches. A code is printed on entry pass which keeps on changing for every batch. Following is an illustration of pass-codes issued for each batch.

Batch I: mama was caught in the power crisis situation

Batch II: situation mama was crisis power caught in the

Batch III: the situation mama in caught was crisis power

If pass-code for the third batch is 'gulfs fronts with narrow rears wider experience tides', what will be the pass-code for the sixth batch?

Rears wider tides fronts gulfs experience with narrow
Wider rears tides fronts gulfs experience narrow with
Wider rears tides experience fronts gulfs narrow with
Rears wider tides experience fronts gulfs with narrow

Explanation

The following represents the order of the words in the batches

I	1	2	3	4	5	6	7	8
II	8	1	2	7	6	3	4	5
III	5	8	1	4	3	2	7	6
IV	6	5	8	7	2	1	4	3
V	3	6	5	4	1	8	7	2
VI	2	3	6	7	8	5	4	1

The last word comes ahead. The first two words shift one place to the right. The second last and the third last words become the fourth and the fifth words. Words 3-5 take positions 6-8.

With this pattern, it can be checked that the pass-code for the sixth batch will become "Wider rears tides experience fronts gulfs narrow with".

Correct answer is: C

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Question No: 7

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

In a triangle PQR, $\angle PRQ = 90$ degrees. What is $PR + RQ = ?$

- A The diameter of the incircle is 10.
- B The diameter of the circumcircle is 18.

Choose the correct option

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: C

Question No: 8

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 :All giants are ogres. Some devils are ogres

Conclusions: I) Some giants are devils II) Some devils are giants III) All ogres are giants

only II

II, III

I

None of these

Explanation

or

Correct answer is: D

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Question No: 9

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

Village A is 20 kilometres to the north of Village B. Village C is 18 kilometres to the east of Village B, Village D is 12 kilometres to the west of Village A. If Raj Gopal starts from Village C and goes to Village D, in which direction is he from his starting point?

North-East

North-West

South-East

North

Explanation

Correct answer is: B

Question No: 10

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

In a zoo 7 different types of animals, tiger, elephant, gorilla, ostrich, bear, rhino and peacock, are displayed during a week, each animal on each day. Each of the animals has a caretaker P, Q, R, S, T, U and V in any order.

- i. Elephant is looked after by V and is displayed on Thursday.
- ii. Ostrich is not displayed on Sunday and is taken care of by Q.
- iii. Bear and Peacock are displayed on Saturday and Tuesday respectively.
- iv. Rhino is looked after by U whereas the animal displayed on Monday is looked after by R.
- v. Gorilla is not looked after by T and is being displayed on Wednesday.
- vi. The animal which is taken care of by P is displayed neither on Tuesday nor on Wednesday
- vii. Rhino is not displayed on Monday.

Who is the caretaker of peacock?

P

T

S

None of these

Explanation

Animal	Taken Care By	Day
Elephant	V	Thursday
Ostrich	Q	Friday
Bear	P	Saturday

Peacock	T	Tuesday
Rhino	U	Sunday
Tiger	R	Monday
Gorilla	S	Wednesday

As seen from above the caretaker of peacock is T. Hence 2nd option.

Correct answer is: B

Question No: 11

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

Out of four persons Arun, Bharat, Chandu and Dharma, two are interested in Hockey, two in Cricket, two are painters, one is a singer and one is a dancer. Each Youngman has one outdoor interest and one hobby concerned with fine arts.

- (i) Arun is not a painter nor does he play hockey.
- (ii) Bharat does not dance
- (iii) The dancer plays hockey
- (iv) Bharat and Dharma do not play cricket

Which pair shows the correct relationship of the game and hobby of Dharma?

Cricket, Singing

Cricket, Painting

Hockey, Dancing

Cricket, Dancing

Explanation

Here, we can make the following table:

	Hockey	Cricket	Dancing	Singing	Painting
Arun (A)	✗	✓		✓	
Bharat (B)	✓	✗	✗		✓
Chandu (C)	✓				✓
Dharma (D)	✓	✗	✓		

Game and hobby of Dharma are hockey and Dancing.

So, correct answer is option 3.

Correct answer is: C

Question No: 12

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

Shama, Rehman's daughter, said to Heena, "Your mother Shabnam is the younger sister of my father, who is the third child of Hasan." What is Hasan to Heena?

- Father
- Maternal grandfather
- Uncle
- Cannot be determined

Explanation

Shabnam and Rehman are siblings. So, Shabnam's father/mother is Heena's maternal grand father/mother.

Since we do not know whether Hasan is a male or a female, the answer is D option.

Correct answer is: D

Question No: 13

DIRECTIONS for the question: Choose the figure which is different from the rest.

Explanation

Figure (b) has reverse shading in the rectangle, hence answer is B.

Correct answer is: B

Question No: 14

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

In the following questions, the symbols @. ©, \$, % and # are used with the following meaning as illustrated below. 'A \$ B' means 'A is not smaller than B'.

- 'A # B' means 'A is not greater than B'.
- 'A @ B' means 'A is neither smaller than nor equal to B'.
- 'A © B' means 'A is neither smaller than nor greater than B'.
- 'A % B' means 'A is neither greater than nor equal to B'.
- 'A \$ B' means 'A is not less than B'.

Now, in each of the following questions, assuming the given statements to be true, find which of the three Conclusions I, II and III given below them is / are definitely true and

give your answer accordingly?

Statements: K @ P, P @ Q, Q \$ R
Conclusions: I. K @ R II. R % P III. Q % K

I and II are true

II and III are true

Only III is true

All are true

Explanation K > P > Q ≥ R

1. K > R
2. R < P < li=""></p>
3. Q < K < li=""></k>

Hence all are true.

Correct answer is: D

Question No: 15

DIRECTIONS for the question: What should come in place of question mark (?) in the following number/alphabetic series?

5, 16, 51, 158, ?

483

481

1454

1452

Explanation

$$5 \times 3 + 1 = 16$$

$$16 \times 3 + 3 = 51$$

$$51 \times 3 + 5 = 158$$

$$158 \times 3 + 7 = [481]$$

Correct answer is: B

Question No: 16

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

In the following questions, the symbols @, ©, \$, % and # are used with the following meaning as illustrated below. 'A \$ B' means 'A is not smaller than B'.

'A # B' means 'A is not greater than B'.
'A @ B' means 'A is neither smaller than nor equal to B'.

'A \circlearrowleft B' means 'A is neither smaller than nor greater than B'.
'A % B' means 'A is neither greater than nor equal to B'.
'A \$ B' means 'A is not less than B'.

Now, in each of the following questions, assuming the given statements to be true, find which of the three Conclusions I, II and III given below them is / are definitely true and give your answer accordingly?

Statements: R # D, D # M
Conclusions: I. R # M II. N # D III. N \$ R M \circlearrowleft N

Only I is true

Only II is true

Only III is true

None is true

Explanation $R \leq D \geq M = N$

1. $R \leq M$
2. $N \leq D$
3. $N \geq R$

Only ii is true.

Correct answer is: B

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Question No: 17

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

Lokesh is to the west of Bhagat

Rakesh is to the south-west of Lokesh

Lokesh is to the north-west of Rakesh

Bhagat is to the north-east of Rakesh

Explanation

Correct answer is: B

Question No: 18

DIRECTIONS for the question: Read the following information and choose the best alternative:

Following are the criteria required to be fulfilled to gain admission into any engineering college in Delhi.

i) The candidate should have secured at least 60% marks in HSC or 50% marks in CBSE.

ii) a) The candidate should have pass in HSC with academic subjects namely Mathematics, Physics and Chemistry put together with a minimum average percent are only eligible to apply. (or)

b) A pass in any one of the HSC vocational subjects with any one of the Engineering related subjects namely Mathematics, Physics or Chemistry with a minimum average percent are also eligible to apply.

iii) The candidate should be a resident of Delhi i.e. the candidate who has passed XI and XII std. in Delhi.

iv) The candidate should have secured at least 60% marks in the entrance exam.

A) At i) above, but the candidate has good sports record, the candidate is admitted under sports quota.

B) At iii) above, but their parents or guardians have been serving in Delhi continuously for the past five years at the time of admissions. They are also eligible to apply and the candidates are admitted under other state quota. In each question below details of one candidate is given. You have to take one of the following course of action based on the information provided and the conditions and sub- conditions given above and mark the number of that course of action as your answer. You are not to assume anything other than the information provided in each question. All these cases are given to you as on 01.10.2017.

Poonam is a resident of Delhi. She scored 75% marks in HSC with academic subjects and scored 65% marks in entrance exam.

If admission can be granted

If admission cannot be granted

If the data are inadequate to take a decision

If the candidate is admitted under sports quota

Explanation Poonam fulfilled all the conditions. So, admission can be granted for her.

Correct answer is: A

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Question No: 19

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

In any two consecutive years, the growth rate is lowest for

Net Fixed Assets.

Net Current Assets.

Investments.

Total Assets.

Explanation

The above graph can be represented in the following manner :

	Net Fixed	Growth Rate of NFA	Net Current	Growth Rate of (NCA)	Investments	Growth Rate of Investments	Total Assets (TA)	Growth Rate of
--	--------------	--------------------------	----------------	----------------------------	-------------	----------------------------------	-------------------------	-------------------

	Assets (NFA)		Assets (NCA)					Total Assets
1990	7	-	13	-	2	-	22	-
1991	8	14.28%	16	23%	1	-50%	25	13.63%
1992	7.5	-6.25%	15	-6.25%	2.5	150%	25	-
1993	9	20%	17	13.33%	4	60%	30	20%

It can be seen that the growth rate is lowest for investments in 1990-91 viz. 50% decrease.

Correct answer is: C

Question No: 20

DIRECTIONS for the question: Read the following information carefully and answer the question given below:

A famous museum issues entry passes to all its visitors for security reasons. Visitors are allowed in batches after every one hour. In a day there are six batches. A code is printed on entry pass which keeps on changing for every batch. Following is an illustration of pass-codes issued for each batch.

Batch I: mama was caught in the power crisis situation

Batch II: situation mama was crisis power caught in the

Batch III: the situation mama in caught was crisis power

Rani visited the museum in the fourth batch and was issued a pass-code 'to fast rush avoid not do very run'. What would have been the pass-code for her had she visited the museum in the second batch?

Rush do not avoid to run very fast

Rush not do avoid to run very fast

Avoid rush not do to run very fast

Rush not do to avoid run very fast

Explanation

The following represents the order of the words in the batches

I	1	2	3	4	5	6	7	8
II	8	1	2	7	6	3	4	5
III	5	8	1	4	3	2	7	6
IV	6	5	8	7	2	1	4	3
V	3	6	5	4	1	8	7	2
VI	2	3	6	7	8	5	4	1

The last word comes ahead. The first two words shift one place to the right. The second last and the third last words become the fourth and the fifth words. Words 3-5 take positions 6-8

Thus, following the same pattern, the pass-code for the visitors of the second batch would have been "Rush do not avoid to run very fast".

Correct answer is: A

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Question No: 21

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

What is the approximate simple annual growth rate of Total Assets between 1990 and 1993?

36%

12%
9%
27%

Explanation

The above graph can be represented in the following manner :

	Net Fixed Assets (NFA)	Growth Rate of NFA	Net Current Assets (NCA)	Growth Rate of (NCA)	Investments	Growth Rate of Investments	Total Assets (TA)	Growth Rate of Total Assets
1990	7	-	13	-	2	-	22	-
1991	8	14.28%	16	23%	1	-50%	25	13.63%
1992	7.5	-6.25 %	15	-6.25%	2.5	150%	25	-
1993	9	20%	17	13.33%	4	60%	30	20%

The growth rate of total assets between 1990-93 = $(30-22)/22 = 36\%$. But this is over a 3 year period. Hence simple average annual growth rate = $36/3 = 12\%$.

Correct answer is: B

Question No: 22

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

Out of four persons Arun, Bharat, Chandu and Dharma, two are interested in Hockey, two in Cricket, two are painters, one is a singer and one is a dancer. Each Youngman has one outdoor interest and one hobby concerned with fine arts.

- (i) Arun is not a painter nor does he play hockey.
- (ii) Bharat does not dance
- (iii) The dancer plays hockey
- (iv) Bharat and Dharma do not play cricket

Who among the following is a singer?

- Arun
- Dharma
- Chandu
- Bharat

Explanation

Here, we can make the following table:

	Hockey	Cricket	Dancing	Singing	Painting
Arun (A)	✗	✓		✓	
Bharat (B)	✓	✗	✗		✓
Chandu (C)		✓			✓
Dharma (D)	✓	✗	✓		

Arun is the singer.
So, correct answer is option 1

Correct answer is: A

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Question No: 23

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: Only scientists are clever. All clever people like sweets.

Conclusions: I. Some scientists like sweets II. All scientists like sweets III. Only scientists like sweets

I and II

I and III

Only I

II, I, and III

Explanation

Since we get two cases of diagrams as drawn above so we get only conclusion 1 as true in all the cases. Hence option 3.

Correct answer is: C

Question No: 24

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

Harshad bought shares of a certain company on one day and sold them the next day. He paid a brokerage of 1%. What was Harshad's profit per rupee?

- A. His selling price was 1.05 times his purchase price.
- B. The number of shares he purchased was 100

Choose the correct option:

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

Statement I implies that profit is 2.95%, but we want the profit per rupee spent on buying the shares. The cost of buying the shares for Harshad is $CP + 0.01 CP = 1.01 CP$. The cost of selling is $SP - 0.01 SP = 0.99 SP$. The difference of the two is profit, i.e. $0.99 SP - 1.01 CP = 0.99 \times 1.05 CP - 1.01 CP = 0.0295 CP$. Hence, profit = 2.95%.

Correct answer is: A

Question No: 25

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

F: 216 : L: ?

1700

1600

1723

1728

Explanation

$$F = 6 : (6)^3 = 216$$

Similarly

$$L = 12 : (12)^3 = 1728$$

Hence answer is option D

Correct answer is: D

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Question No: 26

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

Between 1991 and 1992, the highest growth rate was seen for

- Net Fixed Assets
- Net Current Assets.
- Investments.
- Total Assets.

Explanation

The above graph can be represented in the following manner :

	Net Fixed Assets (NFA)	Growth Rate of NFA	Net Current Assets (NCA)	Growth Rate of (NCA)	Investments	Growth Rate of Investments	Total Assets (TA)	Growth Rate of Total Assets
1990	7	-	13	-	2	-	22	-
1991	8	14.28%	16	23%	1	-50%	25	13.63%
1992	7.5	-6.25%	15	-6.25%	2.5	150%	25	-
1993	9	20%	17	13.33%	4	60%	30	20%

Between 1991 & 1992, the highest growth rate was seen for investments viz. 150% increase

Correct answer is: C

Question No: 27

DIRECTIONS for the question: Read the following information carefully and answer the question given below:

A famous museum issues entry passes to all its visitors for security reasons. Visitors are allowed in batches after every one hour. In a day there are six batches. A code is printed on entry pass which keeps on changing for every batch. Following is an illustration of pass-codes issued for each batch.

Batch I: mama was caught in the power crisis situation

Batch II: situation mama was crisis power caught in the

Batch III: the situation mama in caught was crisis power

If 'visit in zoo should the we time day' is the pass-code for the fifth batch, 'zoo we the should visit day time in' will be the pass-code for which of the following batches?

- II
- IV
- I
- III

Explanation

The following represents the order of the words in the batches

I	1	2	3	4	5	6	7	8
II	8	1	2	7	6	3	4	5
III	5	8	1	4	3	2	7	6
IV	6	5	8	7	2	1	4	3
V	3	6	5	4	1	8	7	2
VI	2	3	6	7	8	5	4	1

The last word comes ahead. The first two words shift one place to the right. The second last and the third last words become the fourth and the fifth words. Words 3-5 take positions 6-8.

Therefore, by matching the pattern, it can be verified that 'zoo we the should visit day time in' will be the pass-code for III batch.

Correct answer is: D

Question No: 28

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

In a zoo 7 different types of animals, tiger, elephant, gorilla, ostrich, bear, rhino and peacock, are displayed during a week, each animal on each day. Each of the animals has a caretaker P, Q, R, S, T, U and V in any order.

- i. Elephant is looked after by V and is displayed on Thursday.
- ii. Ostrich is not displayed on Sunday and is taken care of by Q.
- iii. Bear and Peacock are displayed on Saturday and Tuesday respectively.
- iv. Rhino is looked after by U whereas the animal displayed on Monday is looked after by R.
- v. Gorilla is not looked after by T and is being displayed on Wednesday.
- vi. The animal which is taken care of by P is displayed neither on Tuesday nor on Wednesday
- vii. Rhino is not displayed on Monday.

Which animal is displayed on Friday?

- Bear
- Rhino
- Ostrich
- None of these

Explanation

According to the arrangement Ostrich is displayed on Friday , So option 3.

Animal	Taken Care By	Day
Elephant	V	Thursday
Ostrich	Q	Friday
Bear	P	Saturday
Peacock	T	Tuesday
Rhino	U	Sunday
Tiger	R	Monday
Gorilla	S	Wednesday

Correct answer is: C

Question No: 29

None of the above

Explanation

When paper is punched and folded, the pattern of the corner holes will be square shaped (and not diamond shaped).

Hence answer is option B.

Correct answer is: B

Question No: 30

DIRECTIONS for the question: In the following question, a series is given with some blanks. Check which of the terms given in the options can replace the blanks so that the series becomes a logical one. Then the option which makes that possible will be the answer.

_bcab__cabc__abca__b

aabc

bbca

abac

abca

Explanation

Hence the answer is option 4 (abca)

Correct answer is: D

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Question No: 1

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

It may be said in general that reproduction always involves a division of the parent organism. In the case of the amoeba the division is into two equal portions. In the case of some of the lower plants and animals the substance of the parent organism is divided into many equal minute spores or eggs, each of which develops a new organism. Higher Organisms also suffer a division of their body protoplasm. However, instead of dividing into two or more equal parts and merging their individuality immediately into the next generation, the higher organisms divide off a very small portion of their protoplasm to make an egg or seed while the parent organism lives on to produce eggs or seeds on subsequent occasions.

While the parental sacrifice in eggs or spermatozoa is minute and inconsiderable in the higher animals, the sacrifices subsequent to this initial division are incalculably greater in higher animals than in the lower organisms. It is evident that sacrifices incident to the egoistic activities receive their compensation. The question next demanding our attention is—do the sacrifices which are made incident to our **phyletic** activities receive a compensation? The most striking solution of this question would be a personal solution. Let any young man ask his parents if they have been compensated for all the sacrifices they have made for him. If this son is such a one as brings pride and satisfaction to the parents it is very evident what their unhesitating answer would be, viz., that they have been compensated many times over for all the sacrifices they have made. In what does such compensation consist? It can be expressed most briefly: LOVE OF OFFSPRING. This principle of love of offspring seems to be a more or less general one in the whole realm of conscious living nature. That a tree could possess this no one would suggest; that a sea urchin could possess it no one would be likely to contend. It is probably possessed by all of those animals that are conscious of sacrifices; that is, if an animal is conscious of sacrifice he is capable of being conscious of this compensation which we term, love of offspring. For organisms too low in the scale of life to be conscious of either sacrifice or love of offspring, nature seems to have arranged another scale of sacrifices and compensations—sacrifice taking the form of contention for possession of females and sacrifice in their support and protection, the recompense being the gratification incident to sexual intercourse.

That this last factor may enter, to a certain extent, as a determining factor among the higher animals cannot be questioned. The higher we get in the scale of animal life the less the part played by sexual gratification and the greater the part played by love of offspring. In some of the higher animals, especially those in which the family circle is maintained or the community life highly developed, there is frequently at work still another consideration that may play no small part in ameliorating or compensating the sacrifice incident to reproduction. Reference is here made to the expectation on the part of the parents that support and protection will be provided for them in their old age when they are unable to support or protect themselves. That this plays any great part in determining the procreation in the first place is not probable; but that it later becomes a matter of consideration is not to be doubted. However, in so far as these considerations of personal welfare enter into the compensation of the parents for the sacrifices that they have made for their offspring, in just so far do we remove these considerations from the realm of the **phyletic** and place them within the realm of the egoistic. Reverting again to a discussion of the lower

organisms—we have yet to consider the character and extent of the compensation which these organisms, which are unconscious of sacrifice, receive. The conscious sacrifice of higher animals receives a conscious compensation; similarly the unconscious sacrifice of lower organisms receives an unconscious compensation.

Excerpted from 'The Biology, Physiology and Sociology of Reproduction' by Winfield S. Hall

In the passage, the phrase “**Phyletic**” refers to:

- Inherent qualities an organism possess.
- Reproductive processes which are asexual.
- Evolutionary change or development
- None of the above

Explanation

Referring to the statement “It is evident that sacrifices incident to the **egoistic** activities receive their compensation.....do the sacrifices which are made incident to our **phyletic** activities receive a compensation?” Hence, Phyletic activities has to opposite of egoist activities. Egoism means a doctrine that individual self-interest is the actual motive of all conscious action hence phyletic should mean activities for sake of evolution/development and not just for self. Option B can be ruled out as it talks of asexual reproduction, which is relevant to amoeba and not human beings.

Correct answer is: C

Question No: 2

DIRECTIONS for the question: Pick the best option which completes the sentence in the most meaningful manner.

Fair enough as an argument, but the ----- is wrong.

- Premise
- Stolid
- Accurate
- Confirm

Explanation

Premise is a fact. Stolid is unemotional.

Correct answer is: A

Question No: 3

DIRECTIONS for the question: Read the sentence to find out whether there is any grammatical 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. If there is 'No Error' the answer is (D). (Ignore errors of punctuation if any.)

A cup of coffee/ is an excellent complement/ to smoked salmon.

A cup of coffee
is an excellent complement
to smoked salmon.

No error

Explanation

The sentence is correct itself

Correct answer is: D

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Question No: 4

DIRECTION for the question: The passage below is followed by a question based on it. Read the passage choose the best answer to each question.

No national productivity measures are available for underground industries that may exist but remain unreported. On the other hand, at least some industries that are run entirely by self-employed industrialists are included in national productivity measures. From the information given above, it can be validly concluded that

- there are at least some industries run entirely by self-employed industrialists that are underground industries
- not all industries that are run entirely by self-employed industrialists operate underground
- not all industries that are run entirely by self-employed industrialists are included in national productivity measures
- there are at least some industries run entirely by self-employed industrialists that are not underground industries

Explanation

Since in the para it has been mentioned that some industries that run entirely in self employed industrialists are included in national productivity measures so we can conclude that not all industries.....so option 3 is correct

Correct answer is: C

Question No: 5

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

FICKLE

Diseased

Fast

Constant

Quick

Explanation Fickle means changing frequently, so the opposite would be Constant.

Correct answer is: C

Question No: 6

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.

The signed contract required the author to pay the entire cost of production and promotion, granted the publisher a certain percentage of gross receipts, and guaranteed any remaining profits to the author.

granted the publisher a certain percentage of gross receipts, guaranteeing any remaining profits to the author

granting the publisher a certain percentage of gross receipts, and guaranteed any remaining profits to the author

granted the publisher a certain percentage of gross receipts that guaranteed any remaining profits to the author

granted the publisher a certain percentage of gross receipts, and guaranteed any remaining profits to the author

Explanation Look at the parallel construction required in the contract to do three tasks:-

- a.required
 - b. granted
 - c. guaranteed
- Only **option D** fits.

Correct answer is: D

Question No: 7

DIRECTIONS for the question: Pick the best option which completes the sentence in the most meaningful manner.

The revelry is soon interrupted when deadly tiger sharks ----- the waters.

Besiege

Seduce

Perfunctory

Impetuous

Explanation

Besiege is to surround. Seduce is to lure. Perfunctory is superficial. Impetuous is force.

Correct answer is: A

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Question No: 8

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

It may be said in general that reproduction always involves a division of the parent organism. In the case of the amoeba the division is into two equal portions. In the case of some of the lower plants and animals the substance of the parent organism is divided into many equal minute spores or eggs, each of which develops a new organism. Higher Organisms also suffer a division of their body protoplasm. However, instead of dividing into two or more equal parts and merging their individuality immediately into the next generation, the higher organisms divide off a very small portion of their protoplasm to make an egg or seed while the parent organism lives on to produce eggs or seeds on subsequent occasions.

While the parental sacrifice in eggs or spermatozoa is minute and inconsiderable in the higher animals, the sacrifices subsequent to this initial division are incalculably greater in higher animals than in the lower organisms. It is evident that sacrifices incident to the egoistic activities receive their compensation. The question next demanding our attention is—do the sacrifices which are made incident to our **phyletic** activities receive a compensation? The most striking solution of this question would be a personal solution. Let any young man ask his parents if they have been compensated for all the sacrifices they have made for him. If this son is such a one as brings pride and satisfaction to the parents it is very evident what their unhesitating answer would be, viz., that they have been compensated many times over for all the sacrifices they have made. In what does such compensation consist? It can be expressed most briefly: **LOVE OF OFFSPRING**. This principle of love of offspring seems to be a more or less general one in the whole realm of conscious living nature. That a tree could possess this no one would suggest; that a sea urchin could possess it no one would be likely to contend. It is probably possessed by all of those animals that are conscious of sacrifices; that is, if an animal is conscious of sacrifice he is capable of being conscious of this compensation which we

term, love of offspring. For organisms too low in the scale of life to be conscious of either sacrifice or love of offspring, nature seems to have arranged another scale of sacrifices and compensations—sacrifice taking the form of contention for possession of females and sacrifice in their support and protection, the recompense being the gratification incident to sexual intercourse.

That this last factor may enter, to a certain extent, as a determining factor among the higher animals cannot be questioned. The higher we get in the scale of animal life the less the part played by sexual gratification and the greater the part played by love of offspring. In some of the higher animals, especially those in which the family circle is maintained or the community life highly developed, there is frequently at work still another consideration that may play no small part in ameliorating or compensating the sacrifice incident to reproduction. Reference is here made to the expectation on the part of the parents that support and protection will be provided for them in their old age when they are unable to support or protect themselves. That this plays any great part in determining the procreation in the first place is not probable; but that it later becomes a matter of consideration is not to be doubted. However, in so far as these considerations of personal welfare enter into the compensation of the parents for the sacrifices that they have made for their offspring, in just so far do we remove these considerations from the realm of the **phyletic** and place them within the realm of the egoistic. Reverting again to a discussion of the lower organisms—we have yet to consider the character and extent of the compensation which these organisms, which are unconscious of sacrifice, receive. The conscious sacrifice of higher animals receives a conscious compensation; similarly the unconscious sacrifice of lower organisms receives an unconscious compensation.

Excerpted from 'The Biology, Physiology and Sociology of Reproduction' by Winfield S. Hall

The structure of the passage is suggesting best at which of the following options?

- Scientific experiment explaining the biological phenomenon of reproduction of various species.
- Explanation of a new principle just discovered by any Biologist, which further needs validation.
- Comparative study of compensation in Reproduction in Higher organisms vis a vis lower ones.
- Validation of few theoretical concepts like love of offspring & other compensation mechanisms.

Explanation

Option A is invalid as it is not trying to explain any scientific concept like reproduction. Reproduction is just forming the topic of underlying discussion and no experiments have been cited. Similarly, Option D is also invalid as it is not validating or definitely proving “few” concept.

The passage is a comparative study wherein the passage explains about higher organisms and their receiving compensation of their sacrifices of reproduction in form of Love of offspring....Hence C is valid.

Option B seems to be right but it is not sure as to whether "Love for Offspring" is a newly found concept.

Correct answer is: C

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Question No: 9

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

The UN Intergovernmental Panel on Climate Change (IPCC) recently issued a report that said, “Greenhouse gas forcing has very likely (>90 percent) caused most of the observed global warming over the last 50 years.” Many climate doubters and global warming deniers have raised some serious questions about the 90 percent figure.

Due to these doubts, government representatives were allowed to vote on and revise the IPCC summaries, no matter what the data said. As a direct result, China (think coal) and Saudi Arabia (oil) got to veto anything they didn't like. The United States (think do nothing) also had line-by-line veto power. The deniers call this “politicized Science” and say that the IPCC summaries were just one big, exaggeration, when in fact the reverse is true. They are at most surely understated. It would be like giving a convicted thief a say over the wording of the laws that govern theft. You can bet the final text would go light on thievery. So goes the politicized UN Intergovernmental Panel on Climate Change. While politicized science (an oxymoron if there ever was one) is watered down and conveniently misleading, the real science of global climate change is well understood, and its acceptance in the rigorous world of peer-reviewed science is all but universal. How does global warming work? Well, it can be explained in a simple way.

Certain gases carbon dioxide (CO₂), nitrogen oxide (N₂O), methane (CH₄), and chlorofluorocarbons (CFC) of all kinds--act like blankets thrown across the globe. They trap heat near the earth's surface. As atmospheric concentrations of these gases increase, the blanket thickens and global temperatures increase. Business, industry, and you and I and everyone else emit about nine billion tons of carbon into the air each year, including the effect of deforestation. We do it when we start our cars. We do it when we turn on our lights or burn coal to run a generating station. The earth can capture and sequester about 3.7 billion tons of anthropogenic carbon per year. The difference between what we emit and what the earth can absorb is $9.0 - 3.7 = 5.3$ billion tons excess carbon per year. That 5.3 billion tons goes into the atmosphere and stays there, increasing atmospheric concentrations of CO₂ by 2 or 3 parts per million each year. Unchecked that CO₂ will rise and pass that red line that our best scientists believe is out there in the vicinity of 450 ppm, which will induce a global average temperature change of two degrees Centigrade (3.8 Fahrenheit).

Also, the world's oceans and forests are absorbing less of the CO₂ released by human activity, adding to the faster rise in atmospheric levels of greenhouse gases. Deforestation

is a two-edge sword, as sinks shrink and CO₂ releases from them increase. The ability of ocean to take up carbon decline with warming and acidification and CO₂ in water yields carbonic acid, which also threatens any creature that makes a shell. Warming temperatures have prompted earlier springs in the far north and have caused plant species to spread farther into formerly, icy terrain. Meanwhile, summer sea ice in the Arctic reached a record low this year. Through melting sea levels, larger expanses of blue Ocean reduce the earth's albedo (its reflectivity), resulting in greater heat absorption. Also, as forests die and crop lands succumb to encroaching deserts, they too are taken of the board as carbon absorbers. As vast regions of tundra and permafrost warm melt they release enormous amount of methane - a greenhouse gas many times, more potent than simple carbon dioxide. Here's the takeaway message: Atmospheric concentrations will continue to increase until the gases we send into the air and the earth's ability to absorb those gases come into balance.

If we have to sum up the situation, we are emitting nearly three times as much greenhouse gases as the earth is able to absorb. It should be obvious from those numbers that we cannot avoid crossing those red lines by planting more trees, because there simply is not enough Land. We must reduce our fossil fuel use to reduce the billions of excess tons of carbon we belch into Air. The crisis-climate change-is very real. That is why we, in the developed nations, need to get our act together on this, to show some real leadership, and to seize insurmountable opportunities. But before we can preach the gospel to the world, we need to put our own house in order. We must turn a deaf ear to the voices assuring us, 'Everything will be fine, don't worry! It's all under control!' That's the sort of fatal message that kept card players at the tilting tables in the grand salon of the Titanic. Denial is deadly.

Excerpted from 'Confessions of a Radical Industrialist' by Ray Anderson

What is the author trying to achieve through this passage?

To identify the limitations with IPCC report by highlighting its politicized nature.

To propagate the idea that everything associated with changing climate is under control and hence there is no need to worry.

To stress the idea that a world without fossil fuels is an absolute necessity to combat climate change.

To highlight the causes and impacts of decreasing carbon sequestration, increasing emissions and mitigation measures required.

Explanation

The main purpose of passage is to bring to the notice various factors leading to reduced carbon sequestration, increasing carbon emissions and some of the adaptation measures. Option D states the same.

Option A is not the main idea as its purpose is to highlight how the problem of climate change is handled at IPCC level. Option B is clearly wrong.

Option C is also a wrong statement as passage talks about reducing fossil fuels usage and not eliminating them completely and in any case it is not the main idea.

Correct answer is: D

Question No: 10

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

The UN Intergovernmental Panel on Climate Change (IPCC) recently issued a report that said, “Greenhouse gas forcing has very likely (>90 percent) caused most of the observed global warming over the last 50 years.” Many climate doubters and global warming deniers have raised some serious questions about the 90 percent figure.

Due to these doubts, government representatives were allowed to vote on and revise the IPCC summaries, no matter what the data said. As a direct result, China (think coal) and Saudi Arabia (oil) got to veto anything they didn't like. The United States (think do nothing) also had line-by-line veto power. The deniers call this “politicized Science” and say that the IPCC summaries were just one big, exaggeration, when in fact the reverse is true. They are at most surely understated. It would be like giving a convicted thief a say over the wording of the laws that govern theft. You can bet the final text would go light on thievery. So goes the politicized UN Intergovernmental Panel on Climate Change. While politicized science (an oxymoron if there ever was one) is watered down and conveniently misleading, the real science of global climate change is well understood, and its acceptance in the rigorous world of peer-reviewed science is all but universal. How does global warming work? Well, it can be explained in a simple way.

Certain gases carbon dioxide (CO₂), nitrogen oxide (N₂O), methane (CH₄), and chlorofluorocarbons (CFC) of all kinds--act like blankets thrown across the globe. They trap heat near the earth's surface. As atmospheric concentrations of these gases increase, the blanket thickens and global temperatures increase. Business, industry, and you and I and everyone else emit about nine billion tons of carbon into the air each year, including the effect of deforestation. We do it when we start our cars. We do it when we turn on our lights or burn coal to run a generating station. The earth can capture and sequester about 3.7 billion tons of anthropogenic carbon per year. The difference between what we emit and what the earth can absorb is $9.0 - 3.7 = 5.3$ billion tons excess carbon per year. That 5.3 billion tons goes into the atmosphere and stays there, increasing atmospheric concentrations of CO₂ by 2 or 3 parts per million each year. Unchecked that CO₂ will rise and pass that red line that our best scientists believe is out there in the vicinity of 450 ppm, which will induce a global average temperature change of two degrees Centigrade (3.8 Fahrenheit).

Also, the world's oceans and forests are absorbing less of the CO₂ released by human activity, adding to the faster rise in atmospheric levels of greenhouse gases. Deforestation is a two-edge sword, as sinks shrink and CO₂ releases from them increase. The ability of ocean to take up carbon decline with warming and acidification and CO₂ in water yields carbonic acid, which also threatens any creature that makes a shell. Warming temperatures have prompted earlier springs in the far north and have caused plant species to spread farther into formerly, icy terrain. Meanwhile, summer sea ice in the Arctic reached a record low this year. Through melting sea levels, larger expanses of blue Ocean reduce the earth's albedo (its reflectivity), resulting in greater heat absorption. Also, as forests die and crop lands succumb to encroaching deserts, they too are taken off the board as carbon absorbers. As vast regions of tundra and permafrost warm melt they release enormous amount of methane - a greenhouse gas many times, more potent than simple carbon dioxide. Here's the takeaway message: Atmospheric concentrations will continue to increase until the

gases we send into the air and the earth's ability to absorb those gases come into balance.

If we have to sum up the situation, we are emitting nearly three times as much greenhouse gases as the earth is able to absorb. It should be obvious from those numbers that we cannot avoid crossing those red lines by planting more trees, because there simply is not enough Land. We must reduce our fossil fuel use to reduce the billions of excess tons of carbon we belch into Air. The crisis-climate change-is very real. That is why we, in the developed nations, need to get our act together on this, to show some real leadership, and to seize insurmountable opportunities. But before we can preach the gospel to the world, we need to put our own house in order. We must turn a deaf ear to the voices assuring us, 'Everything will be fine, don't worry! It's all under control!' That's the sort of fatal message that kept card players at the tilting tables in the grand salon of the Titanic. Denial is deadly.

Excerpted from 'Confessions of a Radical Industrialist' by Ray Anderson

Why has 'politicized science' been referred to as an oxymoron?

Politics and science together strengthen each other's legitimacy and acceptability.

Science, when applied to politics, makes it quantifiable.

Political expediency dilutes the nature of science that is fact based and quantifiable.

Politics and science are based on similar principles which make them compatible to each other.

Explanation

Oxymoron means a combination of two paradoxical terms.

Science is something fact based and quantifiable while politics (in context of passage) by various countries has diluted the scientific findings and hence it no more remains fact based, rather based on whims and political exigencies of various countries.

Correct answer is: C

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Question No: 11

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

The UN Intergovernmental Panel on Climate Change (IPCC) recently issued a report that said, “Greenhouse gas forcing has very likely (>90 percent) caused most of the observed global warming over the last 50 years.” Many climate doubters and global warming deniers have raised some serious questions about the 90 percent figure.

Due to these doubts, government representatives were allowed to vote on and revise the IPCC summaries, no matter what the data said. As a direct result, China (think coal) and Saudi Arabia (oil) got to veto anything they didn't like. The United States (think do nothing) also had line-by-line veto power.. The deniers call this “politicized Science” and say that the IPCC summaries were just one big, exaggeration, when in fact the reverse is true. They are at most surely understated. It would be like giving a convicted thief a say over the wording of the laws that govern theft. You can bet the final text would go light on thievery. So goes the politicized UN Intergovernmental Panel on Climate Change. While politicized science (an oxymoron if there ever was one) is watered down and conveniently misleading, the real science of global climate change is well understood, and its acceptance in the rigorous world of peer- reviewed science is all but universal. How does global warming work? Well, it can be explained in a simple way.

Certain gases carbon dioxide (CO₂), nitrogen oxide (N₂O), methane,(CH₄), and chlorofluorocarbons (CFC) of all kinds--act like blankets thrown across the globe. They trap heat near the earth's surface. As atmospheric concentrations of these gases increase, the blanket thickens and global temperatures increase. Business, industry, and you and I and everyone else emit about nine billion tons of carbon into the air each year, including the effect, of deforestation. We do it when we start our cars. We do it when we turn on our lights or burn coal to run a generating station. The earth can capture and sequester about 3.7 billion tons of anthropogenic carbon per year. The difference between what we emit and what the earth can absorb is $9.0 - 3.7 = 5.3$ billion tons excess carbon per year. That 5.3 billion tons goes into the atmosphere and stays there, increasing atmospheric concentrations of CO₂ by 2 or 3 parts per million each year. Unchecked that CO₂ will rise and pass that red line that our best scientists believe is out there in the vicinity of 450 pm, which will induce a global average temperature change of two degrees Centigrade (3.8 Fahrenheit). .

Also, the world's oceans and forests are absorbing less of the CO₂ released by human activity, adding to the faster rise in atmospheric levels of greenhouse gases. Deforestation is a two-edge sword, as sinks shrinks and CO₂ releases from them increase. The ability of ocean to take up carbon decline with warming and acidification and CO₂ in water yields carbonic acid, which also threatens any creature that makes a shell. Warming temperatures have prompted earlier springs in the far north and have caused plant species to spread farther into formerly, icy terrain. Meanwhile, summer sea ice in the Arctic reached a record low this year. Through melting sea levels, larger expanses of blue Ocean reduce the earth's albedo (its reflectivity), resulting in greater heat absorption. Also, as forests die and crop-lands succumb to encroaching deserts, they too are taken of the board as carbon absorbers. As vast regions of tundra and permafrost warm melt they release enormous amount of methane - a greenhouse gas many times, more potent than simple carbon dioxide. Here's the takeaway message: Atmospheric concentrations will continue to increase until the gases we send into the air and the earth's ability to absorb those gases come into balance.

If we have to sum up the situation, we are emitting nearly three times as much greenhouse gases as the earth is able to absorb. It should be obvious from those numbers that we cannot avoid crossing those red lines by planting more trees, because there simply is not enough Land. We must reduce our fossil fuel use to reduce the billions of excess tons of carbon we belch into Air. The crisis-climate change-is very real. That is why we, in the developed nations, need to get our act together on this, to show some real leadership, and to seize insurmountable opportunities. But before we can preach the gospel to the world, we need to put our own house in order. We must turn a deaf ear to the voices assuring us, ‘Everything will be fine, don’t worry! It’s all under control!’ That’s the sort of fatal message that kept card players at the tilting tables in the grand salon of the Titanic. Denial is deadly.

Excerpted from ‘Confessions of a Radical Industrialist’ by Ray Anderson

Select the statements that helps understand the implication of the expression “That sort of fatal.....Titanic” implies in the context of the passage:

- I. Climate change is under control and hence there is no need to worry.
- II. Card players in the salon of Titanic were safe from any possible danger.
- III. We must not deny the voices that raise the question of changing climate.
- IV. We must acknowledge the looming disaster of catastrophic climate change and take steps to mitigate it.

(III) and (IV)

(I), (II) and (III)

(II) and (IV)

(I) and (IV)

Explanation

Climate change has to be tackled and it is the cause of worry. Denial is to be avoided. So statement 1 is wrong while statement 2 is absurd. Statement 3 and 4 are clearly implied from the given line as it asks us to be aware and not in the denial mode.

Correct answer is: A

Question No: 12

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

The UN Intergovernmental Panel on Climate Change (IPCC) recently issued a report that said, “Greenhouse gas forcing has very likely (>90 percent) caused most of the observed global warming over the last 50 years.” Many climate doubters and global warming deniers have raised some serious questions about the 90 percent figure.

Due to these doubts, government representatives were allowed to vote on and revise the IPCC summaries, no matter what the data said. As a direct result, China (think coal) and Saudi Arabia (oil) got to veto anything they didn't like. The United States (think do nothing) also had line-by-line veto power. The deniers call this “politicized Science” and say that the IPCC summaries were just one big, exaggeration, when in fact the reverse is true. They are at most surely understated. It would be like giving a convicted thief a say over the wording of the laws that govern theft. You can bet the final text would go light

on thievery. So goes the politicized UN Intergovernmental Panel on Climate Change. While politicized science (an oxymoron if there ever was one) is watered down and conveniently misleading, the real science of global climate change is well understood, and its acceptance in the rigorous world of peer-reviewed science is all but universal. How does global warming work? Well, it can be explained in a simple way.

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Excerpted from 'Confessions of a Radical Industrialist' by Ray Anderson

Which of the following statements is false?

There is a perfect balance between the greenhouse gases emitted due to anthropogenic factors and absorbing capacity of earth.

Absence of forests is doubly harmful as it causes loss of carbon sinks as well as increased emissions from activities that take place on forests cleared.

Reducing sea-ice in arctic region has resulted in less heat being absorbed by earth.

The ability of oceans to absorb carbon decreases with increase in temperature.

Explanation

There is an imbalance in emissions and absorption of green house gases. Hence Option A is incorrect.

Option B is clearly mentioned in the starting of the 4th paragraph.

Option C is clearly mentioned in the 4th paragraph.

Ocean's capacity decreases with increasing temperature. Hence Option D is correct.

Correct answer is: A

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Question No: 13

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.

An analysis of the marketing problems of the individual companies indicate that fragmentation of the industry causes pressures on profitability of the bigger companies in the group and threatens the survival of the small companies.

indicates that fragmentation of the industry causes pressures on profitability

indicating the fragmentation of the industry causing pressures on profitability

indicate that fragmentation of the industry causes pressures on profitability

indicates that fragmentation of the industry causing pressures on profitability

Explanation “Analysis” is singular, hence the following verb should also be singular. So indicates is the right option. Option A is correct. D is unidiomatic. It is incorrect to say

fragmentationcausing pressures. We need simple present tense. Fragmentation causes pressure.

Correct answer is: A

Question No: 14

DIRECTIONS for the question: *In this question a part of the sentence that requires an improvement is underlined. Choose the best option. Choose "No improvement" if no improvement is needed.*

The progress of these plants has not been very encouraging and they are in various stage of decay.

The progress of these plants
has not been very encouraging
and they are in various stage of decay.

No error

Explanation

We require the plural 'stages' after 'various'

Correct answer is: C

Question No: 15

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

It may be said in general that reproduction always involves a division of the parent organism. In the case of the amoeba the division is into two equal portions. In the case of some of the lower plants and animals the substance of the parent organism is divided into many equal minute spores or eggs, each of which develops a new organism. Higher Organisms also suffer a division of their body protoplasm. However, instead of dividing into two or more equal parts and merging their individuality immediately into the next generation, the higher organisms divide off a very small portion of their protoplasm to make an egg or seed while the parent organism lives on to produce eggs or seeds on subsequent occasions.

While the parental sacrifice in eggs or spermatozoa is minute and inconsiderable in the higher animals, the sacrifices subsequent to this initial division are incalculably greater in higher animals than in the lower organisms. It is evident that sacrifices incident to the egoistic activities receive their compensation. The question next demanding our attention is—do the sacrifices which are made incident to our **phyletic** activities receive a compensation? The most striking solution of this question would be a personal solution. Let any young man ask his parents if they have been compensated for all the sacrifices they have made for him. If this son is such a one as brings pride and satisfaction to the parents it is very evident what their unhesitating answer would be, viz., that they have been compensated many times over for all the sacrifices they have made. In what does such compensation consist? It can be expressed most briefly: LOVE OF OFFSPRING. This principle of love of offspring seems to be a more or less general one in the whole realm of conscious living nature. That a tree could possess this no one would

suggest; that a sea urchin could possess it no one would be likely to contend. It is probably possessed by all of those animals that are conscious of sacrifices; that is, if an animal is conscious of sacrifice he is capable of being conscious of this compensation which we term, love of offspring. For organisms too low in the scale of life to be conscious of either sacrifice or love of offspring, nature seems to have arranged another scale of sacrifices and compensations—sacrifice taking the form of contention for possession of females and sacrifice in their support and protection, the recompense being the gratification incident to sexual intercourse.

That this last factor may enter, to a certain extent, as a determining factor among the higher animals cannot be questioned. The higher we get in the scale of animal life the less the part played by sexual gratification and the greater the part played by love of offspring. In some of the higher animals, especially those in which the family circle is maintained or the community life highly developed, there is frequently at work still another consideration that may play no small part in ameliorating or compensating the sacrifice incident to reproduction. Reference is here made to the expectation on the part of the parents that support and protection will be provided for them in their old age when they are unable to support or protect themselves. That this plays any great part in determining the procreation in the first place is not probable; but that it later becomes a matter of consideration is not to be doubted. However, in so far as these considerations of personal welfare enter into the compensation of the parents for the sacrifices that they have made for their offspring, in just so far do we remove these considerations from the realm of the **phyletic** and place them within the realm of the egoistic. Reverting again to a discussion of the lower organisms—we have yet to consider the character and extent of the compensation which these organisms, which are unconscious of sacrifice, receive. The conscious sacrifice of higher animals receives a conscious compensation; similarly the unconscious sacrifice of lower organisms receives an unconscious compensation.

Excerpted from 'The Biology, Physiology and Sociology of Reproduction' by Winfield S. Hall

Which of the following inferences out of the passage is/are not definitely true?

- I. Only organisms conscious of sacrifice depict love of offspring
- II. Sea urchin does not possess Love of offspring though it is a living and conscious organisms.
- III. The parents do not depict love of their offspring if their children do not bring pride to their names.
- IV. Human beings do not receive compensation for reproduction from sexual gratification.

I & III

I, II & IV

Only I

All the above

Explanation

Statement I is not definitely true in light of the line..... “*It is probably possessed by all of those animals that are conscious of sacrifices; that is, if an animal is conscious of*

sacrifice he is capable of being conscious of this compensation which we term, love of offspring."

Statement II is not definitely true in light of the line..... " *that a sea urchin could possess it no one would be likely to contend*".....likely to claim...but cannot comment surely.

Statement III is not true. The passage does mention the fact that " Let any young man ask his parents if If this son is such a one as brings pride and satisfaction to the parents it is very evident.....that they have been compensated many times" But the reverse of it cannot be inferred as there is no mention of it.."

Statement IV is not definitely true in light of the line " *For organisms too low in the—sacrifice taking the form of the recompense being the gratification incident to sexual intercourse.*" The inference can be drawn only for lower organisms....for higher organism do/do not get compensation is not sure. Moreover from the line 'The higher we get in the scale of animal life the less the part played by sexual gratification and the greater the part played by love of offspring.' it is clear that sexual gratification plays some part.

Correct answer is: D

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Question No: 16

DIRECTIONS for the question: Sentence given in each question when properly sequenced from a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of sentence from among the four given choices to construct a coherent paragraph.

- A. If caught in the act, they were punished, not for the crime, but for allowing themselves to be caught another lash of the whip.
- B. The bellicose Spartans sacrificed all the finer things in life for military expertise.
- C. Those fortunate enough to survive babyhood were taken away from their mothers at the age of seven to undergo rigorous military training.
- D. This consisted mainly of beatings and deprivations of all kinds like going around barefoot in winter, and worse starvation, so that they would be forced to steal food to survive.
- E. Male children were examined at birth by the city council and those deemed too weak to become soldiers
were left to die of exposure

BECDA

ECADB

BCDAE

ECDAB

Explanation

The question talks about the spartans were made warriors therefore the paragraph must start with the unique quality. The question also talks about that males were picked up by council at the time of birth. Hence, B is followed by E and C. D and A can be linked as they are cause and effect. So, option most appropriate sequence should be B-E-C-D-A.

Correct answer is: A

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Question No: 17

DIRECTIONS for the question: For the given question, four or five sentences lettered (A) to (D)/(E) are given. These sentences, if arranged in a logical sequence, will form a coherent and meaningful paragraph. Choose the most logical order from among the given answer choices.

- A. A major one is that rising costs in India may erode our cost-competitiveness.
- B. In the years ahead, you can expect to see even more corporate leaders in India Inc.
- C. Bharat Express that is the train on which, economy of India can be seen slurring ahead with great speed.
- D. As the economy powers ahead at a scorching pace, there are danger signals ahead.
- E. But let us start the tale at the beginning today.

ABCDE

CBEDA

CEBAD

CADBE

Explanation

DA and CB are mandatory pairs. Also 'C' is an opener as it introduces the noun 'bharat express'. Sentence B comes after C as it describes what is 'bharat express'. The example of a 'danger signal' mentioned in D is given in sentence A 'rising costs'.

Correct answer is: B

Question No: 18

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.

Mundane : It sounds mundane, but it is a license to print money.

- Contention
- Brilliant
- Retrieve
- Ordinary

Explanation Mundane means lacking interest or excitement; dull so the right option is D

Correct answer is: D

Question No: 19

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.

Stipulate: Some clauses stipulate that name ownership applies even after contracts expire or artists die.

- Specify
- Collision
- Morose
- Revoke

Explanation Stipulate means to specify so option A is the right one. Morose means gloomy or ill tempered.

Correct answer is: A

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Question No: 20

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

SUPERFICIAL

Artificial

Deep

Shallow

Real

Explanation Superficial means artificial so the opposite would be 'Real'.

Correct answer is: D

Question No: 21

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

The struggle for justice brings _____ the best of moral qualities of men.

Forward

About

In

Out

Explanation

To bring out means to uncover or make visible something that was previously hidden/not visible.

Correct answer is: D

Question No: 22

DIRECTIONS for the question: Sentence given in each question when properly sequenced from a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of sentence from among the four given choices to construct a coherent paragraph.

- A. This very insatiability of the photographing eye changes the terms of confinement in the cave, our world
- B. Humankind lingers unregenerately in Plato's cave, still revelling in its age-old habit in mere images or truth.
- C. But being educated by photographs is not like being educated by older images drawn by hand; for one thing,
there are a great many more images around claiming our attention.
- D. The inventory started in 1839 and since then just about everything has been photographed or so it seems.
- E. In teaching us a new visual code, photographs alter and enlarge our notions of what is worth looking at and

what we have a right to observe.

EABCD

BDEAC

BCDAE

ECDAB

Explanation

B introduces the subject and must be followed by "But being educated by photographs." after this the reference is about the collection i.e. inventory started in 1839. Since then everything has been photographed but still the desire for more by humans has not been satisfied i.e. the keyword 'insatiable'. Hence, DA forms a mandatory pair. The conclusion will be E as it talks about knowledge given by and scope of the images or photographs.

Correct answer is: C

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Question No: 23

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

Some people believe that in emotional maturity men are inferior _____ women.

Than

To

From

Against

Explanation

'Inferior' and 'superior' are idiomatically followed by 'to' in typical constructions like the one given.

Correct answer is: B

Question No: 24

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

RELIGIOUS

- Atheistic
- Immoral
- Holy
- Sinful

Explanation Atheist is someone who does not follow a religion.

Correct answer is: A

Question No: 25

DIRECTIONS for the question: Read the sentence to find out whether there is any grammatical 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. If there is 'No Error' the answer is (D). (Ignore errors of punctuation if any.)

No less than twenty persons were killed in the air crash.

No less than twenty persons
were killed in
the air crash.

No error

Explanation

It should have been 'No fewer than twenty people' ('people' is countable)

Correct answer is: A

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Question No: 26

DIRECTION for the question: The passage below is followed by a question based on it. Read the passage choose the best answer to each question.

According to the National Sample Survey (NSS), without the use of crop protection products to control insects, weeds, and diseases, crop yields per acre will drop by more than 50 percent. The first aerial application of insecticide occurred in 1991, and it was a huge success. By contrast, in today's economy all aircraft that are classified as aerial applicators do more than just apply insecticide; today, they also spread seed and apply fertilizer. From the information given above it CANNOT be validly concluded that

- in today's economy, if an aerial applicator is used, then it will be able to spread seed and to apply fertilizer
- according to the NSS, if crop yields per acre never drop by more than 50 percent, then crop protection products have been used to control insects, weeds, and diseases
- in today's economy, any aircraft that can be used to apply fertilizer cannot be classified as an aerial applicator
- in 1991, if an aircraft was used for the application of insecticide, then it was not also used to spread seed

Explanation

Option 3 which talks of aircraft used to apply fertilizer cannot be classified as an aerial applicator is not be validly concluded from the information given in the passage

Correct answer is: C

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Question No: 27

DIRECTIONS for the question: The question consists of a pair of words bearing a certain relationship. From amongst the alternatives, pick up the pair that best illustrates a similar relationship.

Vertex : Pyramid : _____ : _____

Strand : Hair

Rung : Ladder

Summit : Mountain

Frame : Picture

Explanation

The vertex is the highest point of a pyramid; the **summit** is the highest point of a **mountain**.

Correct answer is: C

Question No: 28

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

FRAYED: FABRIC

Watered: Garden

Dilapidated: Building

Frozen: Ice

Crumpled: Paper

Explanation

'Frayed' is to 'worn down' - this is what happens to 'fabric' due to use over a period of time. The best answer is therefore 'dilapidated: building', 'crumpled: paper' may seem close nevertheless, when crumpled paper is not exactly worn down

Correct answer is: B

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Question No: 29

DIRECTION for the question: The passage below is followed by a question based on it. Read the passage and choose the best answer to each question.

Newspaper publishers earn their profits primarily from advertising revenue, and potential advertisers are more likely to advertise in newspapers with a wide circulation, a large number of subscribers and other readers than with other newspapers. But the circulation of the newspaper that is currently the most profitable one in this city has steadily declined during the last two years, while the circulation of one of its competitors has steadily increased.

Any of the following, if true, would help explain the apparent discrepancy between the two statements above EXCEPT:

- Advertisers generally switch from the most widely circulated newspaper to another one only when the other one becomes the most widely circulated newspaper instead
- Advertising rates charged by the most profitable newspaper in the city are significantly higher than those charged by its competitors
- The most profitable newspaper in the city receives revenue from its subscribers as well from advertisers
- The number of newspapers competing viably with the most profitable newspaper in the city has increased during the last two years

Explanation

Options A, B and C, if true, can explain the apparent discrepancy except the option D which only repeats the message stated in the last line of the paragraph.
Assuming the number of viable number of competitors has increased during the last two years, the likely result would be to draw circulation away from already viable newspapers including the most profitable ones.
Given that profitability depends primarily on advertising revenues and therefore on circulation, **option D** actually aggravate the discrepancy between the two statements.

Option A helps to explain why the most profitable newspaper remains most profitable even though its circulation is declining. Advertisers have not yet begun to switch because the most profitable newspaper is still the most widely circulated.

Option B also helps to explain the discrepancy. Although the argument provides that advertisers are more likely to advertise with widely circulated newspapers than with others, it is possible that other factors such as advertising rates that a newspaper charges also affect which newspapers the advertisers choose.

Option C is also helping to explain the discrepancy by identifying another source of revenue and therefore another means of enhancing profitability i.e. more the sources of revenue, more the profitable a newspaper is likely to be. This eventually explains why the most profitable newspaper in the city remains the most profitable one even if there is decline in the circulation.

Correct answer is: D

Question No: 30

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.

Incongruous : The two systems are at once perceived to be incongruous.

- Scrimmage
- Morbid
- Divergent
- Seethe

Explanation Incongruous means not in harmony or keeping with the surroundings or other aspects of something. So the right option is C. While Scrimmage means a confused struggle; seethe means boil.

Correct answer is: C

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Question No: 31

DIRECTIONS for the question: Pick the best option which completes the sentence in the most meaningful manner.

The waterfalls are lovely, although the leeches are-----, particularly in the rainy season.

- Trivial
- Derive
- Squeeze
- Sparse

Explanation

Trivial is worthless or insignificant. Derive is to determine. Squeeze is to press forcibly together; compress. Sparse is less or little.

Correct answer is: D

Question No: 32

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

Mohan has a bad habit of _____ at an odd hour.

- Turning up
- Turning in
- Turning over
- Turning off

Explanation

'Turn up' means to make an appearance, arrive. The correct choice is option (a).

Correct answer is: A

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Question No: 33

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

It may be said in general that reproduction always involves a division of the parent organism. In the case of the amoeba the division is into two equal portions. In the case of some of the lower plants and animals the substance of the parent organism is divided into many equal minute spores or eggs, each of which develops a new organism. Higher Organisms also suffer a division of their body protoplasm. However, instead of dividing into two or more equal parts and merging their individuality immediately into the next generation, the higher organisms divide off a very small portion of their protoplasm to make an egg or seed while the parent organism lives on to produce eggs or seeds on subsequent occasions.

While the parental sacrifice in eggs or spermatozoa is minute and inconsiderable in the higher animals, the sacrifices subsequent to this initial division are incalculably greater in higher animals than in the lower organisms. It is evident that sacrifices incident to the egoistic activities receive their compensation. The question next demanding our attention is—do the sacrifices which are made incident to our **phyletic** activities receive a compensation? The most striking solution of this question would be a personal solution. Let any young man ask his parents if they have been compensated for all the sacrifices they have made for him. If this son is such a one as brings pride and satisfaction to the parents it is very evident what their unhesitating answer would be, viz., that they have been compensated many times over for all the sacrifices they have made. In what does such compensation consist? It can be expressed most briefly: **LOVE OF OFFSPRING**. This principle of love of offspring seems to be a more or less general one in the whole realm of conscious living nature. That a tree could possess this no one would suggest; that a sea urchin could possess it no one would be likely to contend. It is probably possessed by all of those animals that are conscious of sacrifices; that is, if an animal is conscious of sacrifice he is capable of being conscious of this compensation which we term, love of offspring. For organisms too low in the scale of life to be conscious of either sacrifice or love of offspring, nature seems to have arranged another scale of sacrifices and compensations—sacrifice taking the form of contention for possession of females and

sacrifice in their support and protection, the recompense being the gratification incident to sexual intercourse.

That this last factor may enter, to a certain extent, as a determining factor among the higher animals cannot be questioned. The higher we get in the scale of animal life the less the part played by sexual gratification and the greater the part played by love of offspring. In some of the higher animals, especially those in which the family circle is maintained or the community life highly developed, there is frequently at work still another consideration that may play no small part in ameliorating or compensating the sacrifice incident to reproduction. Reference is here made to the expectation on the part of the parents that support and protection will be provided for them in their old age when they are unable to support or protect themselves. That this plays any great part in determining the procreation in the first place is not probable; but that it later becomes a matter of consideration is not to be doubted. However, in so far as these considerations of personal welfare enter into the compensation of the parents for the sacrifices that they have made for their offspring, in just so far do we remove these considerations from the realm of the **phyletic** and place them within the realm of the egoistic. Reverting again to a discussion of the lower organisms—we have yet to consider the character and extent of the compensation which these organisms, which are unconscious of sacrifice, receive. The conscious sacrifice of higher animals receives a conscious compensation; similarly the unconscious sacrifice of lower organisms receives an unconscious compensation.

Excerpted from 'The Biology, Physiology and Sociology of Reproduction' by Winfield S. Hall

What is the tone of the author?

- Dogmatic; describing a principle of science and exerting opinions.
- Authoritative; explaining certain theory/principle of biology, physiology & sociology.
- Speculative; explaining concepts in theory only which may/may not be true.
- Biased; favoring higher organisms over the lower on the theory of sacrifice and compensation.

Explanation

It seems the passage is explaining a new concept which encompasses reproduction...sociology and physiology and also has been written by an expertthe tone is of authority over the subject.

These are not just opinions as author tries to prove his points by citing explanations hence A is invalid.

Also the author is not speculating.....he definitely hints on the valid presence of this new principle-love of offspring. The probability, if any, is in the application of this principle to various species/organisms. Hence C is invalid.

The tone is definitely not biased.

Correct answer is: B

Question No: 34

DIRECTIONS for the question: Find the fourth number/letter/word which has the same relationship with the third number/letter/word as the second has with the first.

Calendar : Dates :: Dictionary: ?

Vocabulary

Book

Language

Words

Explanation

As Calendar has dates, similarly, dictionary has words

Correct answer is: D

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Question No: 35

DIRECTIONS for the question: Replace the underlined/Bold part of the sentence with the best possible choice so as to make the key sentence grammatically correct. If the sentence is all right, i.e. does not require any correction or improvement, tick 1 as your answer.

After arduous months of fighting, the sight of the white flag being raised generated as much relief on the victor's side than it did on the vanquished.

as much relief on the victor's side than it did on the vanquished

as much relief among the victors as among the vanquished

as much relief on the victor's side as it did on the vanquished's

relief both on the victor's side as well as on the vanquished's

Explanation Correct idiom is As much as.....also B is concise.

Correct answer is: B

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