

Infosys Previous Papers

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Infosys Previous Year Papers and study materials



DIRECTIONS: Read the following given below and answer the questions that follow.

- i) Eleven students Anwar, Baham, Chetan, Dayal, Eshwar, Farooq, Gajendra, Hariom, Inayat, Jatin and Kishore are sitting on a bench in a lecture room facing towards the teacher.
- ii) Dayal is towards the left of Farooq and second to the right of Chetan.
- iii) Eshwar is second to the left of Anwar and sitting on one end.
- iv) Jatin is the neighbour of Anwar and Baham and is third to the left of Gajendra.
- v) Hariom is next to left of Dayal and is third to the right of Inayat.

1) Which two students are sitting in two ends?

- a) Kishore and Dayal b) Eshwar and Dayal
- c) Eshwar and Farooq** d) Kishore and Farooq

2) Which group of students are sitting just next to the right of Gajendra?

- a) Chetan, Hariom, Dayal, Eshwar b) Chetan, Hariom, Inayat, Baham
- c) Chetan, Hariom, Inayat, Dayal **d) none of the above**

3) Who is sitting just in the middle?

- a) Inayat** b) Chetan c) Baham d) Jatin

4) Which of the five given statements is unnecessary?

- a) (i) and (ii) b) (i) c) (iii) **d) All four are necessary**

5) Which of the following is correct?

- a) Eshwar and Anwar are the closest neighbours of Jatin
- b) Gajendar, Inayat and Baham are sitting to the left of Chetan**
- c) Hariom is in the middle of the line
- d) Anwar, Kishore and Eshwar are to the right of Jatin

The Order will be -

E K A J B I G C H D F

Ques. The sum of ages of 5 children born at intervals of 3 years each is 50 years.

What is the age of the youngest child?

Let x = the youngest child. Each of the other four children will then be $x+3$, $x+6$, $x+9$, $x+12$. We know that the sum of their ages is 50 so we can form an equation:

- $x+(x+3)+(x+6)+(x+9)+(x+12) = 50$
- therefore $5x+30 = 50$
- therefore $5x=50-30$
- therefore $x=20/5 = 4$

I wanted to go the church, I moved northwards and after covering to some distance turned to left and moved 5 km and reached the crossing. The road in front of me led to the Casino while the road to my left led to me Miranda college and the road to my right led to the church. In which direction the church is located with reference to starting point.?

North

North east

North west

South

The sum of the ages of 5 children born at the intervals of 3 years each is 50 years what is the age of the youngest child?

4 years

8 years

10 years

None of the above

- Let the ages of children be x , $(x + 3)$, $(x + 6)$, $(x + 9)$ and $(x + 12)$ years.
- Then, $x + (x + 3) + (x + 6) + (x + 9) + (x + 12) = 50$
- $5x = 20$
- $x = 4$.
- Age of the youngest child = $x = 4$ years.

How many numbers between 11 and 90 are divisible by 7?

9

10

11

12

The numbers are 14,21,28,35...77,84

This is an A.P. with $a = 14$ and $d = 21 - 14 = 7$

Let it contain 'n' terms, then
 $T_n = 84 = a + (n-1)d \Rightarrow n = 11$

A certain number of one rupee, fifty paise and twenty five paise coins are in the ratio of 2:5:3:4, add up to Rs.210. How many 50 paise coins were there?

- 100
- 110
- 115
- 126

Let the number of 25 p, 10 p and 5 p coins be x, 2x, 3x respectively.

$$\text{Then, sum of their values} = \text{Rs.} \left(\begin{array}{c} 2 \\ 5 \\ x \end{array} + \begin{array}{c} 1 \\ 0 \\ 0 \end{array} + \begin{array}{c} 1 \\ 2 \\ x \end{array} + \begin{array}{c} 1 \\ 0 \\ 0 \end{array} \right) = \text{Rs.} \frac{60x}{100}$$

$$\therefore \frac{60x}{100} = 30 \quad \Leftrightarrow \quad x = \frac{30 \times 100}{60} = 50.$$

Hence, the number of 5 p coins = $(3 \times 50) = 150$.

The question consists of two statements, labeled (1) and (2), in which certain data are given. You have to decide whether the data given in the statements are sufficient for answering the question. You must indicate whether –

- a) Choice 1 if the question can be answered using one of the statements alone, while the other statement is not sufficient to answer the question.
- b) Choice 2 if the question can be answered using second of the statements alone while the other statement is not sufficient to answer the question.
- c) Choice 3 if both the statements together are needed to answer the question

d) Choice 4 if both the statements independently or taken together are not sufficient to answer the question

e) Either of the statements taken individually are sufficient in answering the questions

Is X a prime number, given that X is a positive integer? (A) $X^4 > 3000$ (B) $X^4 < 10,000$

a

b

c

D

From statement A we know that X^4 is greater than 3000. There are infinite values for X possible for which X^4 is greater than 3000

From statement B we know that X^4 is less than 10,000. This one is a lot better. There are only 9 integer values that satisfy this condition. But this still does not give us a unique answer.

Combining the two statements, we know that $2000 < X^4 < 10000$. The following values of X satisfy this condition $\rightarrow 8$ and 9. Both 8 and 9 are not prime. Hence, the question can be answered conclusively using the two statements. Hence answer choice (3)

How long will it take for two pipes A and B to fill an empty cistern if they worked alternately for an hour each?

(A) Working alone, Pipe A can fill the cistern in 40 hours (B) Pipe B is one third as efficient as Pipe A

a

b

c

D

From statement A, we know that Pipe A can fill the tank in 40 hours. However, this information is not sufficient as we do not have the data for Pipe B. Hence, statement A alone cannot answer the given question.

From statement B, we know that Pipe B is one third as efficient as pipe A. However, we do not know the rate at which Pipe A fills the tank. Hence, we will not be able to find the rate at which Pipe B fills the cistern. Therefore, statement B alone is not sufficient to answer the question.

Now, if we combine the two statements, we know that Pipe A take 40 hours to fill the cistern.
Pipe B takes 120 hours to fill the cistern.

If they worked alternately, then either Pipe A could have started the cycle or Pipe B could have started the cycle.

If Pipe A started the sequence of filling alternately, then at the end of two hours, the two pipes

together would have filled $\frac{1}{40} + \frac{1}{120} = \frac{1}{30}$ th of the tank in an hour. Or the cistern will fill in 30 hours.

If Pipe B started the sequence, then at the end of 2 hours, the two pipes together would have filled

$\frac{1}{120} + \frac{1}{40} = \frac{1}{30}$ th of the tank in an hour. Or the cistern will fill in 30 hours.

As the answer obtained irrespective of which pipe started the sequence is the same, the correct answer is (3) - i.e., both the statement are required to answer the question.

The set S of numbers has the following properties:

I) If x is in S, then $1/x$ is in S. II) If both x and y are in S, then so is $x + y$. Is 3 in S? (A) $1/3$ is in S. (B) 1 is in S.

- a
- b
- c
- D

Correct Answer - (2)

Solution:

Consider (1) alone. Since $1/3$ is in S, we know from Property I that $1/(1/3) = 3$ is in S. Hence, (1) is sufficient.

Consider (2) alone. Since 1 is in S, we know from Property II that $1 + 1 = 2$ (Note, nothing in Property II prevents x and y from standing for the same number. In this case both stand for 1.) is in S. Applying Property II again shows that $1 + 2 = 3$ is in S. Hence, (2) is also sufficient.

Is '0' the smallest of five consecutive integers even?

(A) The product of the five integers is 0 (B) The arithmetic mean of the five integers is 0.

- a
- b
- c
- d

If the smallest of five consecutive integers is even, then the first, third and fifth integers will be even. From statement A, we know that one of the 5 numbers is 0. However, we will not be able to say which of the 5 numbers happen to be 0.

From statement B, we know the arithmetic mean of the 5 numbers is 0. The A.M of five consecutive integers is the third integer, which is 0. 0 is even. Hence, the smallest of the 5 consecutive integers is even. Hence statement B alone is sufficient and the answer is (1).

If CANDLE IS IGTXFY then FLAME is?

- LRGPRS
- LRGGYM
- LGMYGR**
- LRGSKY

When Kumar saw Sujay, he recalled " He is the son of the father of the mother of my daughter"?

Uncle

Brother-in-Law

Cousin

Cannot be determined.

A man sold two cows for Rs.210 at a total profit of 5 %. He sold one cow at a loss of 10% and another at a profit of 10%. What is the price of each cow?

- 50,100
- 100,50
- 150,100
- 50,150

50 and 150

after profit, price is 210

so cost price of 2 cows = 200

$$x+y=200$$

selling price of 2 cows = 210

$0.9x + 1.1y = 210$ // 1 cow sold at 10 % loss and another is at 10% profit

solving both equations $x=50$ and $y=150$

so one cow is of $x = \text{Rs. } 50$

and Other is of $200-x = (200-50) = \text{Rs. } 150$

In a class there are less than 500 students. When it is divided by 3 it gives a whole number. Similarly when it is divided by 4, 5 or 7 gives a whole number. Find the no. of students in the class.

430

420

440

410

Just find LCM of all the numbers. Its 420.

At 6'o clock, the clock ticks 6 times. The time between first and last ticks was 30sec.

How much time it takes at 12'o clock?

65 sec

60 sec

62 sec

66sec

At 6'o clock ticks 6 times means 5 interval

and also given that time b/w first and last tick is 30 sec.

so

$$30/5=6$$

i.e time of each interval is 6 sec.

Similarly at 12'o clock, clock ticks 12 times i.e 11 interval

so

$$1 \text{ interval time}=6$$

so 11 interval = 11×6

Answer = 66 sec

There is an escalator and 2 persons move down it. A takes 50 steps and B takes 75 steps while the escalator is moving down. Given that the time taken by A to take 1 step is equal to time taken by B to take 3 steps. Find the no. of steps in the escalator while it is stationary.

50

60

80

100

100

Let us say that the escalator moves at the rate of n steps per second. Let us also say A takes 1 step per second and B takes 3 steps per second.

Case 1: When A is coming down

A will take 50 seconds to complete 50 steps.

In 50 seconds, escalator would have moved $50n$ steps.

Total number of steps on the stationary escalator = $50 + 50n$

Case 2: When B is coming down

B will take 25 seconds to complete 75 steps

In 25 seconds, escalator would have moved $25n$ steps.

Total number of steps on the stationary escalator = $75 + 25n$

Total number of steps on the stationary escalator is a constant

$$\Rightarrow 50 + 50n = 75 + 25n$$

$$\Rightarrow 25n = 25$$

$$\Rightarrow n = 1$$

Total number of steps = $50 + 50 = 75 + 25 = 100$

Food grains are to be sent to city from godown. Owner wants to reach the food grains at 11 O' clock in the city. If a truck travels at a speed of 30km/hr then he will reach the city one hour earlier. If the truck travels at a speed of 20km/h then it will reach the city one

hour late. Find the distance between the godown to city. Also with which speed the truck should travel in order to reach at exactly 11 'O clock.

120 km, 20 kmph

100 km, 22 kmph

120 km, 24 kmph

110 km, 21.5 kmph

Let distance be x km and original time be t hr, when he travels at constant speed, say s kmph.

Clearly, $x = st$.

Now, $x = 30(t-1)$ and $x = 20(t+1)$. Solving these to simultaneous linear eqns, we get $x = 120$ km and $t = 5$ hr. So, distance between city and go-down = 120 km. To reach exactly at 11 o'clock, he must travel at speed $s = x/t = 120/5 = 24$ kmph

There are 5 burglars and once went to a bakery to rob it obviously. The first guy ate $1/2$ of the total bread and $1/2$ of the bread. The second guy ate $1/2$ of the remaining and $1/2$ of the bread. The third guy, fourth guy and fifth guy did the same. After the fifth guy there is no bread left out. How many bread are there?

31

37

23

21

First we create a general rule for amount of bread left when each burglar leaves

Lets assume we have x no of bread

At every step $x/2 + 1/2$ bread is eaten by the burglar

Therefore after each step compared to previous step we have $[x - (x/2 + 1/2)] = x/2 - 1/2$ bread left.

Now let us go to the problem

Now after 5th burglar leaves we have 0 bread left

Hence number of bread after 4th burglar leaves (or before 5th burglar enters) is calculated by

$$x/2 - 1/2 = 0$$

Therefore $x = 1$

Similarly after 4th burglar leaves we have 1 bread left

Hence number of bread after 3th burglar leaves (or before 4th burglar enters) is calculated by

$$x/2 - 1/2 = 1$$

Therefore $x = 3$

Similarly after 3rd burglar leaves we have 3 bread left

Hence number of bread after 2nd burglar leaves (or before 3rd burglar enters) is calculated by

$$x/2 - 1/2 = 3$$

Therefore $x = 7$

Similarly after 2nd burglar leaves we have 7 bread left

Hence number of bread after 1st burglar leaves (or before 2nd burglar enters) is calculated by

$$x/2 - 1/2 = 7$$

Therefore $x = 15$

Similarly after 1st burglar leaves we have 15 bread left

Hence number of bread before 1st burglar enters is calculated by

$$x/2 - 1/2 = 15$$

Therefore $x = 31$Ans

a, d, i, p, ? what is the next term.

q

r

s

T

Y

$$a=1*1$$

$$d=2*2$$

$$i=3*3$$

$$p=4*4$$

next will be

$$5*5=25=Y$$

9, 4, 16, 6, 36, 21, 441, 421, ?

277240

277230

277241

277250

if this series is divided into series of pairs we can get

9,(4,16),(6,36),(21,441)

$$4*4=16$$

$$6*6=36$$

$$21*21=441$$

so in pair every second no is square of the first no

now in series every first no of a pair is determined by reducing a multiple of 5 from the second no of previous series such as

$$9-(5*1)=4$$

$$16-(5*2)=6$$

$$36-(5*3)=21$$

$$441-(5*4)=421$$

Answer $421 * 421$

14,28,20,40,32,64,?

52

56

96

128

Answer

56

it have two sequence.

1st sequence is 14,20,32,

2nd sequence is 28,40,64,

in this, 1st sequence increase like +6,+12,+24,+48....

2nd sequence increase like +12,+24,+48.....

Ques. How many numbers between 11 and 90 are divisible by 7

1. 9
2. 10
3. 11
4. 12

The numbers are 14,21,28,35...77,84

This is an A.P. with $a = 14$ and $d = 21 - 14 = 7$

Let it contain 'n' terms, then

$$T_n = 84 = a + (n-1)d \Rightarrow n = 11$$

Ques. If x is a positive integer, is x a prime integer?

(1) $x+1$ is a prime number.

(2) $x-5$ is a prime number.

(1) $x+1$ is a prime number. Notice that x cannot be an odd prime, because in this case (odd prime) + 1 = (even number), and the only even prime is 2, but in this case $x=1$, which is not prime. So, if $x=\text{prime}$, then it must be 2: $2+1=3=\text{prime}$. Of course, x can be a non-prime, for example 1. Not sufficient.

(2) $x-5$ is a prime number. If $x=7$, then the answer is YES but if $x=8$, then the answer is NO. Not sufficient.

(1)+(2) From (1) we have that if x IS a prime, then it must be 2. But if $x=2$, then $x-5=-3$, which is not a prime. Thus $x=\text{prime}=2$ contradicts the second statement. Therefore x cannot be a prime number. Sufficient.

Answer: C.

Ques. If numbers 123456 are arranged in an increasing order, what would be the 267th term
ANSWER-321645

Let's see how many numbers can be formed with the left most digit as 1

The digit '1' is placed at the 1st position (only 1 way of doing this)

Since one digit is placed at the 1st position, any of the remaining 5 digits can be placed at 2nd position.

Since one digit is placed at the 1st position and another digit is placed at the 2nd position, any of the remaining 4 digits can be placed at the 3rd position.

So on ...

1

5

4

3

2

1

i.e., total number of ways = $1 \times 5 \times 4 \times 3 \times 2 \times 1 = 120$

i.e., total count of numbers which can be formed
with the left most digit as 1 = 120

Similarly, total count of numbers which can be formed
with the left most digit as 2 = 120

Similarly, total count of numbers which can be formed
with the left most digit as 3 = 120

i.e., 240 numbers ($=120 + 120$) can be formed
(with left most digit as 1) or (with left most digit as 2)

Similarly, 360 numbers ($=120 + 120 + 120$) can be formed
(with left most digit as 1) or (with left most digit as 2)
or (with left most digit as 3)

Hence, the left most digit of the 249th number = 3

Now, let's find out how many numbers can be formed
with the left most digit as 3 and next digit as 1

The digit '3' is placed at the 1st position (only 1 way of doing this)

The digit '1' is placed at the 2nd position (only 1 way of doing this)
Any of the remaining 4 digits can be placed at 3rd position.

Since 3 digits are placed in the first three positions, any of the remaining 3 digits can be placed at the 4th position.

Since 4 digits are placed in the first four positions, any of the remaining 2 digits can be placed at the 5th position.

Since 5 digits are placed in the first five positions, the remaining 1 digit can be placed at the 6th position.

1
1
4
3
2
1

i.e., total number of ways = $1 \times 1 \times 4 \times 3 \times 2 \times 1 = 24$

i.e., Total count of numbers which can be formed
(with the left most digit as 3) and (next digit as 1) = 24

Hence $120+120+24=264$ numbers can be formed
(with left most digit as 1) or (with left most digit as 2)
or (with left most digit as 3 and next digit as 1)

265th number is 321456

266th number is 321546

267th number is 321645

Ques. A team of 4 members is chosen from a team of 3 trainees, 3 engineers and 5 managers. Find the probability that exactly 3 of them are managers?

1. $\frac{2}{11}$
2. $\frac{1}{11}$
3. $\frac{2}{33}$
4. $\frac{3}{12}$

Ques. How many 3 digit numbers can you form using 2,3,5,6,7 and 9, which are divisible by 5 and none of the digits repeat?

1. 10
2. 15
3. 5
4. 20
5. 30

For a number to be divisible by 5, it should have 0 or 5 as a unit digit.

We have 6 digits- 2, 3, 5, 6, 7 & 9.

Required numbers should be like-

--5.

We've **5 choices** to fill these 2 places.

Number of total multiples of 5 formed = $5P2 = 5 \times 4 = 20$.

How long will it take for two pipes A and B to fill an empty cistern if they worked alternately for an hour each ?

A. Working alone, Pipe A can fill the cistern in 40 hours

B. Pipe B is one third as efficient as Pipe A

A) Only A is sufficient B) Only B is sufficient

C) Both (A) and (B) are sufficient D) None

From statement A, we know that Pipe A can fill the tank in 40 hours. However, this information is not sufficient as we do not have the data for Pipe B. Hence, statement A alone cannot answer the given question.

From statement B, we know that Pipe B is one third as efficient as pipe A. However, we do not know the rate at which Pipe A fills the tank. Hence, we will not be able to find the rate at which Pipe B fills the cistern. Therefore, statement B alone is not sufficient to answer the question.

Now, if we combine the two statements, we know that Pipe A take 40 hours to fill the

cistern.

Pipe B takes 120 hours to fill the cistern.

If they worked alternately, then either Pipe A could have started the cycle or Pipe B could have started the cycle.

If Pipe A started the sequence of filling alternately, then at the end of two hours, the two pipes together would have filled $\frac{1}{40} + \frac{1}{120} = \frac{1}{30}$ th of the tank in an hour. Or the cistern will fill in 30 hours.

If Pipe B started the sequence, then at the end of 2 hours, the two pipes together would have filled $\frac{1}{120} + \frac{1}{40} = \frac{1}{30}$ th of the tank in an hour. Or the cistern will fill in 30 hours.

As the answer obtained irrespective of which pipe started the sequence is the same, the correct answer is (3) - i.e., both the statement are sufficient to answer the question.

Ques. The set S of numbers has the following properties:

I) If x is in S, then $\frac{1}{x}$ is in S.

II) If both x and y are in S, then so is $x + y$.

Is 3 in S?

(1) $\frac{1}{3}$ is in S.

(2) 1 is in S.

Mark 1 If the question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.

(2) Mark 2 If the question can be answered by using either statement alone.

(3) Mark 3 If the question can be answered by using both statements together, but cannot be answered by using either statement alone.

(4) Mark 4 If the question cannot be answered even by using both the statements together.

Correct Answer - (2)

Solution:

Consider (1) alone. Since $\frac{1}{3}$ is in S, we know from Property I that $\frac{1}{(1/3)} = 3$ is in S.

Hence, (1) is sufficient.

Consider (2) alone. Since 1 is in S, we know from Property II that $1 + 1 = 2$ (Note, nothing in Property II prevents x and y from standing for the same number. In this case both stand for 1.) is in S. Applying Property II again shows that $1 + 2 = 3$ is in S. Hence, (2) is also sufficient.

Ques. A man sold two cows for Rs. 210 at a total profit of 5 %. He sold one cow at a loss of 10% and another at a profit of 10%. What is the price of each cow?

1. 50, 100
2. 100, 50
3. 150, 100
4. 50, 150

50 and 150

after profit, price is 210

so cost price of 2 cows = 200

$x + y = 200$

selling price of 2 cows = 210

$0.9x + 1.1y = 210$ // 1 cow sold at 10 % loss and another is at 10% profit

solving both equations $x = 50$ and $y = 150$

so one cow is of $x = \text{Rs. } 50$

and Other is of $200 - x = (200 - 50) = \text{Rs. } 150$

Ques. In a class there are less than 500 students . when it is divided by 3 it gives a whole number. Similarly when it is divided by 4,5 or 7 gives a whole number. find the no. of students in the class

1. 430
2. 420
3. 410
4. 440

Just find LCM of all the numbers. Its 420.

Ques. How many six digit numbers can be formed using the digits 1 to 6, without repetition such that the number is divisible by the digit at its unit place?
ince, there is no repetition, numbers 1 to 6 will always be present in the 6 digit number.

We will go through this step by step.

Divisible by 1 and 1 at the unit place:

____ _ 1

This gives us total of $5 \times 4 \times 3 \times 2 \times 1 = 120$ numbers.

Divisible by 2 and 2 at the unit place:

____ _ 2

This gives us total of $5 \times 4 \times 3 \times 2 \times 1 = 120$ numbers.

Divisible by 3 and 3 at the unit place:

____ _ 3

Since, any number will have all the digits from 1 to 6 and the sum $1 + 2 + 3 + 4 + 5 + 6 = 21$ is divisible by 3

This gives us total of $5 \times 4 \times 3 \times 2 \times 1 = 120$ numbers.

Divisible by 4 and 4 at the unit place:

____ _ 4

Here, there are two cases

____ _ 2 4

This gives $4 \times 3 \times 2 \times 1 = 24$ numbers.

____ _ 6 4

This gives $4 \times 3 \times 2 \times 1 = 24$ numbers.

This gives us total of $24 + 24 = 48$ numbers.

Divisible by 5 and 5 at the unit place:

____ _ 5

This gives us total of $5 \times 4 \times 3 \times 2 \times 1 = 120$ numbers.

Divisible by 6 and 6 at the unit place:

____ _ 6

As all 6 digit numbers formed with 1 to 6 digits (without repetition) are divisible by 3 and numbers with 6 at the unit place are even.

This gives us total of $5 \times 4 \times 3 \times 2 \times 1 = 120$ numbers.

None of these cases will have numbers overlapping with each other.

So, Total numbers = $120 + 120 + 120 + 48 + 120 + 120 = 648$

1. Jake left point A for point B. 2 hours and 15 minutes later, Paul left A for B and arrived at B at the same time as Jake. Had both of them started simultaneously from A and B travelling towards each other, they would have met in 120 minutes. How much time (hours) did it take for the slower one to travel from A to B if the ratio of speeds of the faster to slower is 3:1?

Ans: x x

Sol: It seems there is some problem with this question.

Let the distance between A and B is D km. As Paul is faster, take the speeds of Jake and Paul are s and 3s kmph.

As the speeds are in the ratio of 1 : 3, times taken by them should be 3 : 1. Take the times taken by them are $3x$, x . But We know that $3x - x = 2$ hour 15 min. So $2x = 9/4$ hours, $x = 9/8$ hours. So time taken by the slower one (Jake) takes $3x$ time = $3 \times 9/8 = 27/8$ hours = 202.5 minutes.

(Or)

Take Jake speed = j and Paul = p kmph.

Now given that $Dj - Dp = 2$ hr 15 min = 214 hrs = $9/4$ hrs

Also both of them together covered D distance in 2 hours. So $D_j + D_p = 2$ Adding these two equations will give us $2D_j = 94 + 2 = 174 = 4 \text{ hours } 15 \text{ minutes}$.

So in the above problem, some part is redundant.

2. A completes a work in 2 days, B in 4 days, C in 9 and D in 18 days. They form group of two such that difference is maximum between them to complete the work. What is difference in the number of days they complete that work?

Ans: $14/3$ days.

Sol: If C and D form a pair and A and B form a pair the difference is maximum. Now C and D together can complete the work = $9 \times 189 + 18 = 6$ days.

A and B together can complete the work = $2 \times 42 + 4 = 4/3$ days.

Difference = $6 - 4/3 = 14/3$ days.

3. How many 4 digit numbers contain number 2. a. 3170

b. 3172

c. 3174

d. 3168

Ans: D

Sol:

Total number of 4 digit numbers are 9000 (between 1000 and 9999).

We find the numbers without any two in them. So total numbers are $8 \times 9 \times 9 \times 9 = 5832$

So numbers with number two in them = $9000 - 5832 = 3168$

4. How many three digit numbers abc are formed where at least two of the three digits are same.

Ans: 252

Sol:

Total 3 digit numbers = $9 \times 10 \times 10 = 900$

Total number of 3 digit numbers without repetition = $9 \times 9 \times 8 = 648$

So number of three digit numbers with at least one digit repeats = $900 - 648 = 252$

5. How many kgs of wheat costing Rs.24/- per kg must be mixed with 30 kgs of wheat costing Rs.18.40/- per kg so that 15% profit can be obtained by selling the mixture at Rs.23/- per kg? **Ans: 12**

Sol:

S.P. of 1 kg mixture = Rs.23. Gain = 15%.

C.P. of 1 kg mixture = Rs. $[(100/115) \times 23]$ = Rs.20

Let the quantity of wheat costing Rs.24 is x kgs.

Using weighted average rule = $x \times 24 + 30 \times 18.4$ $x + 30 = 20$ Solving we get $x = 12$

6. What is the next number of the following sequence 7, 14, 55, 110,?

Ans: 121

Sol:

Next number = Previous number + Reverse of previous number So

7, $7+7=14$, $14+41 = 55$, $55+55 = 110$, $110+011 = 121$

7. How many numbers are divisible by 4 between 1 to 100

Ans: 24

Sol: There are 25 numbers which are divisible by 4 till 100. ($100/4 = 25$). But we should not consider 100 as we are asked to find the numbers between 1 to 100 which are divisible by 4. So answer is 24.

8. $(11111011)_2$

= $()_8$

Ans: 373

Sol: $11111011_2 = (251)_{10} = (373)_8$ or

You can group 3 binary digits from right hand side and write their equivalent octal form.

9. There are 1000 junior and 800 senior students in a class. And there are 60 sibling pairs where each pair has 1 junior and 1 senior. One student is chosen from senior and 1 from junior randomly. What is the probability that the two selected students are from a sibling pair?

Ans: 714 / 80000

Sol:

Junior students = 1000

Senior students = 800

60 sibling pair = $2 \times 60 = 120$ student

One student chosen from senior = ${}^{800}C_1$
= 800

One student chosen from junior = ${}^{1000}C_1 = 1000$

Therefore, one student chosen from senior and one student chosen from junior $n(s) = 800 \times 1000 = 800000$

Two selected students are from a sibling pair $n(E) = {}^{120}C_2 = 7140$

therefore, $P(E) = n(E) / n(S) = 7140 / 800000 = 714 / 80000$

10. $161?85?65?89 = 100$, then use + or - in place of ? and take + as m, - as n then find value of m-n.

Ans: -1

Sol:

$$161 - 85 - 65 + 89 = 100$$

so m's = 1, n's = 2 $\Rightarrow (m - n) = -1$

11. In a cycle race there are 5 persons named as J, K, L, M, N participated for 5 positions so that in how many number of ways can M finishes always before N?

Ans: 60

Sol: Total number of ways in which 5 persons can finish is $5! = 120$ (there are no ties)

Now in half of these ways M can finish before N.

12. Rahul took a part in cycling game where $1/5$ ahead of him and $5/6$ behind him excluding him. Then total number of participants are

Ans: 31

Sol:

Let the total no of participants including Rahul = x Excluding rahul=(x-1)

$$15(x-1)+56(x-1) = x$$

$$31x - 31 = 30x$$

Total no. of participants x = 31

13. If a refrigerator contains 12 cans such that 7 blue cans and 5 red cans. In how many ways can we remove 8 cans so that atleast 1 blue can and 1 red can remains in the refrigerator.

Ans:

Sol:

Possible ways to draw 8 balls from the refrigerator which contains atleast 1 blue and 1 red can after the drawing are (6,2) (5,3) (4,4).

$$\text{For (6, 2)} = \Rightarrow 7C6 * 5C2 \Rightarrow 7 * 10 = 70$$

$$\text{For (5, 3)} = \Rightarrow 7C5 * 5C3 \Rightarrow 21 * 10 = 210$$

$$\text{For (4, 4)} = \Rightarrow 7C4 * 5C4 \Rightarrow 35 * 5 = 175 \text{ So Total ways} = 70 + 210 + 175 = 455$$

14. There are 16 people, they divide into four groups, now from those four groups select a team of three members, such that no two members in the team should belong to same group.

Ans: 256

Sol:

We can select any three of the 4 groups in 4C_3

ways. Now from each of these groups we can select 1 person in 4 ways. So total ways
 $= 4 \times 4 \times 4 \times 4 = 256$

15. How many five digit numbers are there such that two left most digits are even and remaining are odd and digit 4 should not be repeated.

Ans: 2375

Sol:

We have

4 cases of first digit {2,4,6,8}

5 cases of second digit {0,2,4,6,8}

But 44 is one case we have to omit. So total ways for leftmost two digits are $4 \times 5 - 1 =$

19 5 cases of third digit {1,3,5,7,9}

5 cases of fourth digit {1,3,5,7,9}

5 cases of fifth digit {1,3,5,7,9}

So total ways $= 19 \times 5 \times 5 \times 5 = 2375$

16. 7 people have to be selected from 12 men and 3 women, Such that no two women can come together. In how many ways we can select them?

Ans: 2772

Sol:

We can select only one woman, and remaining 6 from men. So ${}^{12}C_6 \times {}^3C_1$
 $= 2772$

17. Tennis players take part in a tournament. Every player plays twice with each of his opponents. How many games are to be played?

Ans: 210

Sol:

We can select two teams out of 15 in ${}^{15}C_2$ ways. So each team plays with other team once. Now to play two games, we have to conduct ${}^{15}C_2 \times 2 = 210$ games.

18. Find the unit digit of product of the prime number up to 50 .

Ans: 0

Sol: No need to write all the primes upto 50. There are two primes 2, 5 gives unit digit of 0. So the entire product has unit digit 0.

19. If $[x^{(1/3)}] - [x^{(1/9)}] = 60$ then find the value of x.

Ans: 4^9

Sol:

Let $t = x^{1/9}$

So,

$$t^3 - t = 60$$

Therefore, $(t-1) \times t \times (t+1) = 60 = 3 \times 4 \times 5$. therefore, $t = x^{1/9} = 4$.

hence, $x = 4^9$

20. A family X went for a vacation. Unfortunately it rained for 13 days when they were there.

But whenever it rained in the mornings, they had clear afternoons and vice versa. In all they enjoyed 11 mornings and 12 afternoons. How many days did they stay there totally?

Ans: 18

Sol:

Total they enjoyed on 11 mornings and 12 afternoons = 23 half days It rained for 13 days. So 13 half days.

So total days = $(13 + 23) / 2 = 18$

1. 125 small but identical cubes are put together to form a large cube. This large cube is now painted on all six faces.

(i) How many of the smaller cubes have no face painted at all.

(a) 27

(b) 64 (c) 8 (d) 36

(ii) How many of the smaller cubes have exactly three faces painted? (a) 98

(b) 100

(c) 96

(d) 95

(iii) How many of the smaller cubes have atleast one side painted? (a) 4

(b) 8

(c) 9

(d) 27

Sol:

Side of larger cube is $\sqrt[3]{125}$
= 5

I) No face painted will be in the interior part of the cube. Interior part will be a cube of side $(5 - 2) = 3$.

Hence no. of cubes with no face painted will be 3^3
= 27

Ans : (a) 27

II) Cubes with 3 faces painted will be the vertices of the cube. There will be 8 such cubes

Ans : 8 [Wrong options... 3rd options should come here]

III) Atleast 1 face painted \Rightarrow

greater than or equal to 1

Cube with 1 face painted + cube with 2 side painted + cube with 3 side painted

Cube with 1 face painted will be the outermost layer of larger cube but not on the edges.

i.e. $(5-2)^2$

= 9 cubes on 1 side

So totally $6 \times$

$9 = 54$ cubes

Cube with 2 face painted ll be edges of the larger cube but

$(5 - 2) = 3$.

Since a cube has 12 edges, totally $12 \times$

$3 = 36$ cubes

Cube with 3 sides painted = 8 cubes

Totally $54 + 36 + 8 = 98$ cubes

Ans : 98

2. Directions : Study the following information and answer the question given below:

In a certain code, the symbols for 0 (zero) is @ and for 1 is \$. There are no other symbols for all other number greater than one. The numbers greater than 1 are to be written only by using the two symbols given above. The value of the symbol for 1 doubles itself every time it shifts one place to the left. Study the following examples:

'0' is written as @, '1' is written as \$, '2' is written as \$, '@' '3' is written as \$ \$

'4' is written as \$@@ and so on

=> Which of the following represents 14?

(a) \$@@@

(b) \$\$\$@

(c) \$\$@@

(d) \$\$\$#

Sol:

Answer (b) ###@

The given pattern is nothing but binary. In binary $2 = 10$; $3 = 11$

Thus $14 = 1110$

So $14 = ###@$

3. $7528 : 5306 :: 4673 : ?$ a) 2367

b) 2451

c) 2531

d) 2489

Sol:

Answer is 2451.

As there is a difference of 2222. $7528 - 2222 = 5306$.

So $4673 - 2222 = 2451$

4. $x^2 - y^2 = 16$ and xy

= 15 so find out $x + y$?

Sol:

$$x^2 - y^2$$

$$= 16 \quad (x+y)(x-y) = 16$$

So 16 comes in following table $1 \times$

$16, 2 \times 8, 4 \times$

4

Using 2×8 equation $x+y=8$

and $x-y=2$

So $x = 5$ or 3 and $y = 3$ or 5 So answer is 8.

5. Census population of a district in 1981 was 4.54 Lakhs, while in year 2001 it was 7.44 Lakhs. What was the estimated mid-year population of that district in year 2009.

Sol:

1981 \Rightarrow

4.54 2001 \Rightarrow

7.44

Difference (year) = 20 Difference (population) = 2.9 So population per year = $2.9/20 = 0.145$

2009 \Rightarrow

x=?

Hence $x = 7.44 + 8 \times 0.145 = 8.6$ Lakhs

6. Based on the statement in the question, mark the most logical pair of statement that follow "Either he will shout or they will fire".

(1) He shouted.

(2) He did not shout.

(3) They fired

(4) They did not fire

(a) 1,4

(b) 2,3

(c) 4,1

Sol:

Either or condition is true atleast one of the condition should happen. Answer is option C because according to the given sentence.

"Either he will shout or they will fire"

One of the two must happen whether he shouting or they firing.

If one of them happens, the other will not happen.

So if he did not shout then the firing should happen, so they fired.

If they did not fire it means the first thing has happened, so he shouted.

7. Gautham passes through seven lane to reach his school. He finds that YELLOW lane is between his house and KAMA lane. The third lane from his school is APPLE lane. PEACOCK lane is immediately before the PARK lane. He passes ASH lane at the end. KAMA lane is between YELLOW lane and PEACOCK lane. The sixth lane from his house is RAO lane.

I. How many lane are there between KAMA lane and RAO lane ? a) one

b) two

c) three

d) four

II. After passing the park lane how many lane does Gautham cross to reach the school ? a) 4

b) 3

c) 2

d) 1

III. After passing the YELLOW lane how many lane does Gautham cross to reach the school ? a) 4

b) 6

c) 2

d) 1

IV. Which lane is between PARK lane and RAO lane ? a) YELLOW lane

b) KAMA lane

c) APPLE lane

d) PEACOCK lane

V. If the house of Gautham, each lane and his school are equidistant and he takes 2 min to pass one lane then how long will he take to reach school from his house ?

a) 18 min

b) 16 min

c) 14 min

d) 12 min

Sol:

1. 3 Lanes between KAMA lane and RAO lane

2. Answer is 2 because after passing the PARK lane Gautham cross 3 lane to reach the school. 3. After passing the YELLOW lane Gautham cross 6 lane to reach the school.

4. APPLE lane 5. 16 minutes

8. Find the maximum value of n such that $50!$ is perfectly divisible by 2520^n .

Sol:

$$2520 = 2^3 \times 3^2 \times 5 \times 7$$

Here 7 is the Highest prime So find the number of 7's in $50!$ only. Number of 7's in $50! = [50/7] + [50/7^2]$

$$= 7 + 1 = 8$$

For $n(\max) = 8$, $50!$ is perfectly divisible by 2520^8 .

9. Find the no of ways in which 6 toffees can be distributed over 5 different people namely A,B,C,D,E.

Sol:

We assume that all the toffees are similar. Then Number of ways are ${}^{(n+r-1)}C_{r-1}$

$$\text{. Here } A+B+C+D+E=6$$

Here $r = 5$, $n = 6$

$$\text{Number of ways} = {}^{6+5-1}C_{5-1} = {}^{10}C_4 = 210.$$

If all the toffees are different, then each toffee can be distributed to any of the five. So total ways are 5^6

.

10. A train covered a distance at a uniform speed .if the train had been 6 km/hr faster it would have been 4 hour less than schedule time and if the train were slower by 6 km/hr it would have been 6 hrs more.find the distance.

Sol:

Let t be the usual time taken by the train to cover the distance Let d be the distance, s be the usual speed

Usual time taken \rightarrow

$$d/s = t \Rightarrow d = t \times s$$

$$d/s+6$$

$$=t-4$$

$$t \times s+6$$

$$=t-4$$

$$ts = ts + 6t - 4s - 24 \quad 6t - 4s - 24 = 0 \rightarrow$$

(1)

$$d/(s - 6) = t + 6$$

$$ts = ts - 6t + 6s - 36$$

$$- 6t + 6s - 36=0 \rightarrow$$

(2)

Solving (1) and (2), v get $s = 30$ km/h

$$t = 24 \text{ hrs}$$

$$d = t \times s$$

$$d = 30 \times 24$$

$$= 720 \text{ km}$$

Ans : 720 km

11. A girl leaves from her home. She first walks 30 metres in North-west direction and then 30 metres in South-west direction. Next, she walks 30 metres in South-east direction. Finally, she turns towards her house. In which direction is she moving?

Option

A) North-east B) North-west C) South-east D) South-west E) None of these Sol:

A.North-east

12. There are two containers on a table. A and B. A is half full of wine, while B, which is twice A's size, is one quarter full of wine. Both containers are filled with water and the contents are poured into a third container C. What portion of container C's mixture is wine?

Sol:

Let the size of container A is "x" then B's size will be "2x"

A is half full of wine $\Rightarrow \frac{x}{2}$

So remaining $\frac{x}{2}$

of A contains water

B is quarter full of wine $\Rightarrow \frac{2x}{4} = \frac{x}{2}$

So remaining $\Rightarrow 2x - \frac{x}{2} = \frac{3x}{2}$

$\frac{3x}{2}$

of B contains water

Totally C has A's content + B's Content = $\frac{x}{2} + \frac{x}{2} = x$ Wine portion in C = $\frac{x}{2}$

of "A" + $\frac{x}{2}$

of "B"

$\frac{x}{2}$ portion of wine

Water portion in C = $\frac{x}{2}$ of "A" + $\frac{3x}{2}$

of "B"

$\Rightarrow \frac{x}{2} + \frac{3x}{2} = 2x$

portion of water

So portion of wine in C is $\frac{\frac{x}{2}}{2x} = \frac{1}{4}$

portion of wine

if $\frac{1}{4}$ expressed in % $\frac{1}{4} \times 100$

= 25%

Ans : 25% of wine

13. Four persons A,B,C,D were there. All were of different weights. All Four gave a statement. Among the four statements only the person who is lightest in weight of all others gave a true statement.

A Says : B is heavier than D.

B Says : A is heavier than C.

C Says : I am heavier than D.

D Says : C is heavier than B.

Find the lightest and List the persons in ascending order according to their weights ?

Sol:

A says $B > D$ B says $A > C$

C says $C > D$

D says $C > B$

\Rightarrow Since the person with lightest weight tells the truth

C lies (If C tells the truth, then C is not the lightest and then C lies)

$D > C$ is the true statement.

So D is also not the lightest person and D lies.

$B > C$

So from A and B only one is telling the truth and that is not B because $B > C$, so B is not the lightest

A is the lightest

Ans: A

14. There is well of depth 30 m and frog is at bottom of the well. He jumps 3 m in one day and falls back 2 m in the same day. How many days will it take for the frog to come out of the well? Sol:

28 days

Frog jumps 3 m in day & falls back 2 m at night
so, frog will be $3 - 2 = 1$ m up in a day.

Thus, in 27 days it will be 27 m up

On 28th day it will be at top i.e $27 + 3 = 30$ m & will not fall down.

15. Find the next term in the given series 47, 94, 71, 142, 119, 238, _ ?

a.331

b.360

c.320

d.340

Sol:

Ans : 215, 430

(47, 94) (71, 142) (119, 238) (X, Y) 47×2

= 94

$94 - 23 = 71$

71×2

=142

$142 - 23 = 119$

119×2

= 238

$238 - 23 = 215$

215×2

= 430

So the next 2 terms are 215 , 430

16. A train leaves Meerut at 5 a.m. and reaches Delhi at 9 a.m. Another train leaves Delhi at 7 a.m. and reaches Meerut at 10.30 a.m. At what time do the two trains travel in order to cross each other ?

Sol:

Let the total distance be x

So the speed of 1st train is $x/4$ and 2nd train $x/3.5$

In 2 hours 1st train covers half of the total distance . So remaining is only half of the total distance(ie $x/2$). Let t be the time taken

$$t \times 4 + t \times 3.5 = x2$$

$$t = 1415$$

i.e. 56 min

i.e. Total time taken = 2 hrs + 56 min

Time they cross each other is 7:56 am (5+2.56) Answer 7:56 am

17. 'A' and 'B' started a business in partnership investing Rs 20000/- and Rs 15000/- respectively. After six months 'C' joined them with Rs 20000/-. What will be B's share in the total profit of Rs 25000/- earned at the end of two years from the starting of the business?

Sol:

$$A:B:C = (20000 \times 24):(15000 \times 24):(20000 \times 18) = 4 : 3 : 3$$

$$B's \text{ Share} = 3 \times 25000 / 10 = 7500$$

18. b,x,e,u,h,_?

Sol:

We know that a = 1, b = 2,, z = 26

Convert the alphabets into numbers. we get number series as follows

2, 24, 5, 21, 8

In these (2,5,8) belong to one group as they have common difference of 3

(24,21,_) these are of one group as they have difference of -3.

So the next number is $21 - 3 = 18$.

If we convert 18 into alphabet it is "r".

Since r = 18.

19. 3,5,11,29,83,245, _ ?

Sol:

We have to find the differences between the given numbers and then by applying that number with 3 we can get the result

$$5 - 3 = 2$$

See here the result is 2, then multiply it with 3

$$11 - 5 = 6$$

$$29 - 11 = 18$$

$$83 - 29 = 54$$

$$245 - 83 = 162$$

$$731 - 245 = 486 \quad 5 - 3 = 2$$

$$11 - 5 = 6 \quad (2 \times 3)$$

$$29 - 11 = 18 \quad (6 \times 3)$$

$$83 - 29 = 54 \quad (18 \times 3)$$

$$245 - 83 = 162 \quad (54 \times 3)$$

$$731 - 245 = 486 \quad (162 \times 3)$$

20. A Jar contains 18 balls. 3 blue balls are removed from the jar and not replaced. Now the probability of getting a blue ball is $\frac{1}{5}$ then how many blue balls jar contains initially ?

Sol:

$$x/15 = 1/5$$

$$x = 3$$

$$3 + 3 \text{ (removed 3 blue balls)} = 6$$

1. 4, 6, 10, 14, 22, 26, 34, 38, 46, _ ? what is next term in the series.

Sol:

Divide each number by 2. Then we get 2, 3, 5, 7, 11, 13,, 23. This is a prime number series. So next number will be $2 \times 29 = 58$

2. y, _?, q, m, i 1. w

2. u

3. t

4. l

Sol:

Difference of 3 is in between two alphabets $i + 3 = m$ (j,k,l)

$m + 3 = q$ (n,o,p)

$q + 3 = u$ (r,s,t)

u is the answer.

3. What is the next number in the series 3,7,13,19....

Sol:

Prime numbers from 3 onwards are 3, 5, 7, 11, 13, 17, 19, 23, 29 . . . Write alternate prime numbers starting from 3.

3, 7, 13, 19, 29

Answer is 29

4. Data Sufficiency Question:

Is w a Whole number?

Statement 1: $3w$ is an Odd number. Statement 2: $2w$ is an Even number Sol:

Statement 2 is enough to solve this

$3w$ is Odd means w may be Odd or Fraction like $5/3$ we can not guess what w is from the first statement.

$2w$ is Even.

So must and should w either Odd or Even

i.e which is whole number.

No Fraction will give Even output.

5. Joe's age, Joe's sister's age and Joe's father's age sums up to a century. When son is as old as his

father, Joe's sister will be twice as old as now. When Joe is as old as his father then his father is twice as old as when his sister was as old as her father. Age of her father ?

Sol:

Joe + sister + father = 100

After x years let us consider Joe's age is equal to his father Joe + x = father

Therefore,

$$s \Rightarrow \text{ister} + x = 2 \times \text{ister}$$

$$\text{sister} = x$$

Joe + sister = father Therefore,

$$2x$$

$$\text{father} = 100 \text{ Hence, Father} = 50$$

6. The sum of series represented as $1/(1 \times 5) + 1/(5 \times 9) + 1/(9 \times 13) + \dots + 1/(221 \times 225)$ is

$$\text{a) } 28/221$$

$$\text{b) } 56/221$$

$$\text{c) } 56/225$$

d) None of these

Sol:

$$11 \times 5$$

$$+ 15 \times 9 + 19 \times 13 + \dots + 1221 \times 225$$

$$= 14 \times$$

$$[(5-1)1 \times 5 + (9-5)5 \times 9 + (13-9)9 \times 13 + \dots + (225-221)221 \times 225]$$

$$= 14 \times [(1-15) + (15-19) + (19-113) + \dots + (1221-1225)] = 14 \times (1-1225)$$

$$= 14 \times 224225$$

$$= 56225$$

7. What are the next three terms in the series 3, 6, 7, 12, 13, 18, 19, 24, __ __?

Sol:

This is a mixed series. 6, 12, 18, 24, . . . form a series. Adding 1 to 6, 12, 18, forms another series. So next three terms are 25, 30, 31.

8. What is the next number in the series. a, b, d, h, __?

Sol:

$$a=1$$

$$b=2$$

$$d=4$$

$$h=8$$

This is a 2^n

series starting with $n = 0, 1, 2, \dots$

$$2^4$$

= 16 which is p. Ans = p

9. Find the letter that comes in the place of " - " b, _, d, d, e, d, f, g, d.

Sol:

[b c] d [d e] d [f g] d [h i] d....

The series follow above manner. Answer will be c.

10. The number of zeros at the end of the product of all prime numbers between 1 and 1111 is?

Sol:

Prime numbers between 1 & 1111 are 2,3,5,7,11,...

There is no other prime no. ending with 5 as unit digit, except one '5' $2 \times 5 = 10$ gives only one zero in the product of all prime numbers So, number of zeros at the end of the product = 1

11. A train goes from stations A to B. One day there is a technical problem at the very beginning of the journey & hence the train travels at $\frac{3}{5}$ of it's original speed and so it arrives 2 hours late. Had the problem occurred after 50 miles had been covered, the train would have arrived 40 min earlier(i.e., only $120-40 = 80$ min late). What is the distance between the 2 stations?

Sol:

For 1 mile the train is late by $40 / 50$ min or $\frac{4}{5}$ minutes. Or it is late by 1 minute for every $\frac{5}{4}$ miles. For 120 minutes late it has to travel $120 \times \frac{5}{4} = 150$ miles.

12. Due to some defect in our elevator, I was climbing down the staircase. I'd climbed down just 7 steps when I saw a man on the ground floor. Continuing to walk down, I greeted the man and I was surprised to see that when I was yet to get down 4 steps to reach the ground floor, the man had already finished climbing the staircase. He perhaps climbed up 2 steps for every 1 of mine. How many steps did the staircase have?

Sol:

Let us consider x be the number of steps

$$7 + x + 4 = 2x$$

As old man takes 2 steps for every one steps he takes and he has to complete 4 steps,

$$\text{So } x = 11 \text{ and total steps} = 2x = 22$$

39. A card board of size $34 \times$

14 has to be attached to a wooden box and a total of 35 pins are to be used on the each side of the card box. find the total number of pins used.

Sol:

Total 35 pins are there and 4 sides of card board.

$$\text{So } 35 \times 4 = 140$$

Now in the rectangle 4 vertices have 4 pins which is common to the sides.

$$\text{So } 140 - 4 = 136.$$

13. In the Garbar Jhala, Ahmadabad a shopkeeper first raises the price of Jewellery by $x\%$ then he decreases the new price by $x\%$. After one such up down cycle, the price of a Jewellery decreased by Rs. 21025. After a second updown cycle the jewellery was sold for Rs. 484416. What was the original price of the jewellery.

Sol:

Let the original price be " p ":

1 cycle:

Up by $x\%$ means new price is p

$$+ px100$$

Down by $x\%$ on current price means new price is $(p$

$$+ px100) - (p + px100) \times x100$$

Price after one up down cycle is $(p - 21025)$

Thus, $(p$

$$+ px100) - (p + px100) \times x100$$

$$= (p - 21025) = p' \text{----- (1)}$$

II cycle:

Up by $x\%$ means new price is p'

$$+ p'x100$$

Down by $x\%$ on current price means new price is

$(p'$

$$+ p'x100) - (p' + p'x100) \times x100$$

Price after second up down cycle is 484416.

Thus, $(p'$

$$+ p'x100) - (p' + p'x100) \times x100$$

$$= 484416 \text{----- (2)}$$

Putting value of $p' = p - 21025$ in equation (2) and dividing (1) & (2) to eliminate x . We get a quadratic equation in p :

$$p^2 - 526466p - (21025)^2 = 0$$

The equation has real roots in the form 525625, 841.

14. Three football teams are there. Given below is the group table. Fill in the x's P -

Played

W - Won

L - Lost

D - Draw

F - Goals For

A - Goals Against

PWLDFA A22xxx1 B2xx124 C2xxx37 Sol:

PWLDFA A2 2 0 0 7 1 B2 0 1 1 2 4

C 201 13 7

Total goals for = Total goals against

$$1+4+7=3+2+x$$

$$x=7$$

A has played two and won 2 therefore lost = 0, draw = 0

B has played 2 but one is draw as A has 0 draw, it should be against C i.e C draw = 1

C played 2 draw = 1 therefore lost = 1 because A has won both matches played against them. So we can conclude that each team has played a match with every other team.

15. A dog takes 4 leaps for every 5 leaps of hare but 3 leaps of dog is equal to 4 leaps of hare compare speed?

Sol:

Dog and hare speeds according to the number of leaps = 4 : 5

But their leap lengths are in the ratio = 4 : 3 (3 x D = 4 x H)

Multiplying number of leaps and leap lengths we get their speeds as = 4 x 4 : 5 x 3 = 16 : 15 Answer = 16 : 15

16. A bird keeper has got P pigeons, M mynas and S sparrows. The keeper goes for lunch leaving his assistant to watch the birds. Suppose $p = 10$, $m = 5$, $s = 8$ when the bird keeper comes back, the assistant informs the x birds have escaped. The bird keeper exclaims: "Oh no! All my sparrows are gone."

How many birds flew away?

When the bird keeper comes back, the assistant told him that x birds have escaped.

The keeper realized that atleast 2 sparrows have escaped.

What is minimum no of birds that can escape?

Sol:

This question can be solved using the pigeonhole principle.

I guess the answer for the first question is 23 ($10 + 5 + 8$).

Since if all the birds are escaped, then only he can be sure that all sparrows are gone.

And for the second one, answer is 17 ($10 p + 5 m + 2 s$).

If 17 birds escaped then best case such that least number of sparrows escaped will be like 10 pigeon, 5 myna and 2 sparrows escaped.

17. 3,4,7,10,13,16,19,22, . . . Find 10th term in series

Sol:

3

$$3 \times 1 = 3 + 1 = 4 \quad 3 \times 2 = 6 + 1 = 7 \quad 3 \times 3$$

$$= 9 + 1 = 10 \quad 3 \times 4$$

$$= 12 + 1 = 13 \quad 3 \times 5$$

$$= 15 + 1 = 16$$

$$3 \times 6$$

$$= 18 + 1 = 19 \quad 3 \times 7$$

$$= 21 + 1 = 22 \quad 3 \times 8$$

$$= 24 + 1 = 25 \quad 3 \times 9$$

$$= 27 + 1 = 28 \quad \text{10th term} = 28$$

18. a, d, i, p, ? what is next term a) q

b) r

c) s

d) t

Sol:

$$a = 1 \times 1$$

$$d = 2 \times 2$$

$$i = 3 \times 3$$

$$p = 4 \times 4 \quad \text{Next will be } 5 \times 5$$

$$= 25 = Y$$

19. Marbles are to be distributed. Ann gets 1, Mary gets 2, Rose gets 3 and Lisa gets 4. John Brown gets as much as his sister. Tim Smith gets 2 times as much as his sister. Neil Johnson gets 3 times as much as his sister. Sam Paul gets 4 times as much as his sister. Find the surnames of Ann, Mary, Rose and Lisa ?

Sol:

Ann's brother is Neil John ($1 \times 3 = 3$).

Mary 's brother Sam paul ($2 \times 4 = 8$).

Rose's brother John Brown ($3 \times 1 = 3$).

Lisa's Brother is Tim Smith ($4 \times 2 = 8$).

$$1 + 2 + 3 + 4 + 3 + 8 + 3 + 8 = 32$$

20. A shop has 4 shelf, 3 wardrobes, 2 chairs and 7 tables for sell. You have to buy a. 1 shelf

b. 1 wardrobe

c. either 1 chair or 1 table

How many selection can be made?

Sol:

The way to answer this question

$${}^4C_1 \times {}^3C_1 \times {}^2C_1 + {}^4C_1 \times {}^3C_1 \times {}^7C_1 = 108$$

$$1. \quad XZY + XYZ = YZX.$$

Find the three digits

Sol:

2nd column, $Z + Y = Z$ shows a carry so, $Z + Y + 1 = 10 + Z \Rightarrow$

$$Y=9$$

$$\text{1st column, } X + X + 1 = 9 \Rightarrow$$

$$X = 4 \text{ so, } Z = 5 \quad 459 + 495 = 954$$

$$X = 4, Y = 9, Z = 5$$

2. In a 5 digit number, 3 pairs of sum is 11 each. last digit is 3 times first one, 3rd digit is 3 less than 2nd, 4th digit is 4 more than the second one. Find the number.

Sol:

1st Digit \Rightarrow

a2nd Digit \Rightarrow

b3rd Digit $\Rightarrow (b - 3)$

4th digit $\Rightarrow (b + 4)$

5th Digit \Rightarrow

3a

So the number is : $(a)(b)(b - 3)(b + 4)(3a)$

Now, Let's analyze 1st and the 5th digit :

Possible combinations -

1-3

2-6

3-9

(Since 4 will yield 12 which is obviously more than 2 digits) Now Let's analyze 2nd,3rd and 4th Digits :

Possible Values of 2nd Digit i.e 'b' is :

5,4,3

As, $(b - 3) > 0$ i.e 3rd Digit and $(b + 4)$ $1 + 3 + 7 = 11$ Similarly, 24186 for $4 - 1 - 8$ and $6 + 4 + 1 = 11$

3rd Combination $5 - 2 - 9$ will get no possible match. Hence, 2 solutions : 13073 and 24186

If Repetitions not allowed then Ans should be 24186

3. GOOD is coded as 164 then BAD as 21. If UGLY coded as 260 then JUMP?

Sol:

$$G O O D = 7 + 15 + 15 + 4 = 41 \quad 41 \times 4 = 164$$

$$\text{Similarly } BAD = 2 + 1 + 4 = 7$$

7x 3

$$U G L Y = 21 + 7 + 12 + 25 = 65 \quad 65 \times 4$$

Similarly,

$$J U M P = 10 + 21 + 13 + 16 = 60 \quad 60 \times 4 = 240$$

4. Supposing a clock takes 7 seconds to strike 7. How long will it take to strike 10?

Sol:

7 strike of a clock have 6 intervals

While 10 strikes have 9 intervals.

$$\text{Required time} = (7 \times 9)$$

) seconds = 10 1/2 seconds.

Because time is only moving ahead ! so when we say between 1 to 2 hours, that means we assume only 1 hours not 2 hours.

5. An escalator is descending at constant speed. A walks down and takes 50 steps to reach the bottom. B runs down and takes 90 steps in the same time as A takes 10 steps. How many steps are visible when the escalator is not operating?

Sol:

Lets suppose that A walks down 1 step / min and escalator moves n steps/ min

It is given that A takes 50 steps to reach the bottom

In the same time escalator would have covered $50n$ steps

So total steps on escalator is $50 + 50n$.

Again it is given that B takes 90 steps to reach the bottom and time taken by him for this is equal to time taken by A to cover 10 steps i.e 10 minutes. So in this 10 min escalator would have covered $10n$ steps. So total steps on escalator is $90 + 10n$

Again equating $50 + 50n = 90 + 10n$ we get $n = 1$ Hence total number of steps on escalator is 100.

6. Albert and Fernandes have two leg swimming race. Both start from opposite ends of the pool. On the first leg, the boys pass each other at 18 m from the deep end of the pool. During the second leg they pass at 10 m from the shallow end of the pool. Both go at constant speed but one of them is faster. Each boy rests for 4 seconds at the end of the first leg. What is the length of the pool?

Sol:

The solution is :Let the length of swimming pool be : D

let their speed be x and y . So according to question the fast swimmer (let x) would start from shallow end.

Thus

Let they first meet after time: t_1

$$x \times t_1 = D - 18$$

(1)

$$y \times t_1 = 18$$

(2)

(2) / (1) we get

$$yx = 18(D - 18)$$

--- (3)

Let t_2 be the time after which they meet 2nd time (the 4 sec delay is cancelled as both wait for 4 sec)

So

$$x \times t_2 = 2D - 10$$

---- (4)

(as x travelled one length complete to deep end + length from deep end to 10 m before shallow end)

$$4y \times t_2 = D + 10$$

----- (5)

(as y travelled one length complete to shallow end + 10 m from shallow end)

(5) / (4) we get

$$yx = (D + 10)(2D - 10)$$

----- (6)

from (3) and (6)

$$18(D - 18) = (D + 10)(2D - 10)$$

solving we get

$$D \times (D - 44) = 0$$

Since D cannot be zero

So $D = 44$ m answer.

7. 16, 36, 100, 324, _ ?

Find the next term.

Sol:

This sequence can be written as a sequence of squares of numbers as... 4^2

, 6^2 , 10^2 , 18^2

The differences between the successive numbers are in geometric progression which is of

2, 4, 8, ?

2^1

, 2^2 , 2^3 , 2^4

The next number = $(18 + 16)^2$

= 1156

8. How many ways can one arrange the word EDUCATION such that relative positions of vowels and consonants remains same?

Sol:

The word EDUCATION is a 9 letter word with none of letters repeating

The vowels occupy 3,5,7th & 8th position in the word & remaining five positions are occupied by consonants

As the relative position of the vowels & consonants in any arrangement should remain the same as in the word EDUCATION

The four vowels can be arranged in 3rd,5th,7th & 8th position in $4!$ ways.

similarly the five consonants can be arranged in 1st ,2nd ,4th, 6th & 9th position in $5!$ ways Hence the total number of ways = $5! \times 4! = 120 \times 24 = 2880$

9. There are 8 digits and 5 alphabets. In how many ways can you form an alphanumeric word using 3 digits and 2 alphabets?

Sol:

Select 3 digits from 8 digits i. e. 8C_3

ways

And also select 2 alphabets from 5 alphabets i.e., 5C_2

ways

Now to form a alphanumeric word of 5 characters we have to arrange the 5 selected digits. So the answer is 8C_3

$\times {}^5C_2 \times$

$5! = 43200$

10. In an Octagon the number of possible diagonals are?

Sol:

Formula : Number of diagonals for n sided regular polygon = ${}^nC_2 - n$ For Octagon $n = 8$

Number of diagonals = 8C_2

$- 8 = 20$

11. What is the next number of the following sequence 7, 14, 55, 110, _ ?

Sol:

In that sequence first number is 7

$$7 + 7 = 14$$

$$14 + 41 = 55$$

$$55 + 55 = 110$$

$$110 + 011$$

=121 Next number in that sequence = 121

12. How many numbers are divisible by 4 between 1 to 100

Sol:

Sequence of numbers that are divisible by 4 between 1 to 100 are as follows 4,8,12,16,
-----, 96

The series forms an Arithmetic Progression with

First number = $a = 4$

Common difference, $d = 4$

Last number = $l = 96$

Number of terms = n

Formula for last number in A.P. $l = [a + (n - 1) \times d]$

$$96 = 4 + (n - 1) \times 4$$

$$n = 24$$

13. 5 cars are to be parked in 5 parking slots. there are 3 red cars, 1 blue car and 1 green car. How many ways the car can be parked?

Sol:

Total ways to park the cars having same color = $5!$

But according to question ,there are 3 red cars,so no. of ways for parking 3 red cars= $3!$

and both blue & green in 1 ways
so, $5!1! \times 3! \times 1!$

= 20 ways

Hence correct answer is 20 ways.

14. 12 persons can complete the work in 18 days. after working for 6 days, 4 more persons added to complete the work fast. in how many more days they will complete the work?

Sol:

Total work $12 \times 18 = 216$ units

After 6 days, work finished $6 \times 12 = 72$ units Remaining work $216 - 72 = 144$ units

Remaining days = $144 / (12 + 4)$

Answer is 9 days

15. A set of football matches is to be organized in a "round-robin" fashion, i.e., every participating team plays a match against every other team once and only once. If 21 matches are totally played, how many teams participated?

Sol:

Consider number of teams be n

n th has to with $(n - 1)$ matches

$(n - 1)$ th team has to play $(n - 2)$ matches, since every participating team plays a match against every other team once and only once.

Sequence follows as

$(n - 1), (n - 2), (n - 3) \dots, 1$

Formula for summation(x) for n terms = $\frac{n(n+1)}{2}$

But we have $(n - 1)$ terms so formula becomes $\frac{n(n-1)}{2}$

Equating formula to 21

$\frac{n^2}{2}$

$-\frac{n}{2}$

$- 42 = 0$

Factors = 7, -6

Number of teams = 7

16. Next term in series 3, 32, 405, _

Sol:

First term $3 \times 12 = 3$ Second term $4 \times 23 = 32$ Third term $5 \times 34 = 405$ Fourth term
 $6 \times 45 = 6144$

17. A cube is divided into 729 identical cubelets. Each cut is made parallel to some surface of the cube. But before doing that the cube is colored with green color on one set of adjacent faces, red on the other set of adjacent faces, blue on the third set. So, how many cubelets are there which are painted with exactly one color?

Sol:

Total cubes created are 729

So a plane of big cube has 9×9 cubes

Out of that $(n - 2) \times (n - 2) = 7 \times 7 = 49$ are painted only one side and a cube has six sides = $6 \times 49 = 294$

18. Find the radius of the circle inscribed in a triangle ABC. Triangle ABC is a right-angled isosceles triangle with the hypotenuse as $62\sqrt{2}$

Sol:

Since hypotenuse is $62\sqrt{2}$

cm.

Sides are 6 cm each as it is an isosceles triangle.

Now, if we have an inscribed circle the property is the point where the circle touches the sides are exactly $\frac{2}{3}$ rd of the length of sides, i.e., $\frac{2}{3} \times 6$
= 4 cm.

Now, if you drop 2 radii on the sides of triangle then they act as perpendiculars on sides. So, it forms a small square of $(6 - 4) = 2$ cm each side.

Thus, radius of the circle is 2 cm.

19. How many boys are there in the class if the number of boys in the class is 8 more than the number of girls in the class, which is five times the difference between the number of girls and boys in the class.

Sol:

Let number of boys = b Number of girls = g then
given

$$b = 8 + g = 5(b - g) \quad b = 5 \times 8$$
$$b = 40$$

[$b - g = 8$ from given equation]

20. If dolly works hard then she can get A grade

1. If dolly does not work hard then she can get A grade

2. If dolly gets an A grade then she must have worked hard

3. If dolly does not get an A grade then she must not have worked hard 4. Dolly wishes to get A grade

1. The hour hand lies between 3 and 4. The difference between hour and minute hand is 50 degree. What are the two possible timings?

Sol:

The angle between the hour hand and minute hand at a given time H:MM is given by

$$\theta = 30 \times H - 11 \times MM$$

The time after H hours, hour hand and minute hand are at $MM = | 211 \times ((30 \times H) \pm \theta) |$

given $H = 3$, $MM = 50$

Substituting the above values in the formula

$$\theta = 8011, 28011$$

2. Jack and Jill went up and down a hill. They started from the bottom and Jack met Jill again 20 miles from the top while returning. Jack completed the race 1 min ahead of Jill. If the hill is 440 miles high and their speed while down journey is 1.5 times the up journey. How long it took for the Jack to complete the race ?

Sol:

Assume that height of the hill is 440 miles.

Let speed of Jack when going up = x miles/minute

and speed of Jill when going up = y miles/minute

Then speed of Jack when going down = $1.5x$ miles/minute

and speed of Jill when going up = $1.5y$ miles/minute

Case 1 :

Jack met Jill 20 miles from the top. So Jill travelled $440 - 20 = 420$ miles.

Time taken for Jack to travel 440 miles up and 20 miles down = Time taken for Jill to travel 420 miles up $440x + 20 \cdot 1.5x = 420y$

$$681.5x = 420y \quad 68y = 63x$$

$$y = \frac{63x}{68} \quad \text{---(1)}$$

Case 2 : Time taken for Jack to travel 440 miles up and 440 miles down = Time taken for Jill to travel 440 miles up and 440 miles down – 1

$$440x + 440 \cdot 1.5x = 440y + 440 \cdot 1.5y - 1 \quad 440 \times 53(1y - 1x) = 1 \quad \text{---(2)}$$

Substitute (2) in (1) we get $x = \frac{440 \times 53 \times 63}{68}$

$$t = \frac{440 \times 53}{1x}$$

$$t = 12.6 \text{ min}$$

3. Data Sufficiency question:

A, B, C, D have to stand in a queue in descending order of their heights. Who stands first? I. D was not the last, A was not the first.

II. The first is not C and B was not the tallest.

Sol:

D because A is not first neither C and B is not the tallest person. The only person will be first is D. So option (C). We can answer this question using both the statements together.

4. One of the longest sides of the triangle is 20 m. The other side is 10 m. Area of the triangle is 80 m^2 . What is the another side of the triangle?

Sol:

If a,b,c are the three sides of the triangle.

Then formula for Area = $\frac{1}{2} \sqrt{s(s-a)(s-b)(s-c)}$ Where s =

$$\frac{a+b+c}{2} = 12 + \frac{c}{2}$$

[Assume a = 20 , b = 10]

Now,

Check the options.

5. Data Sufficiency Question:

a and b are two positive numbers. How many of them are odd?

I. Multiplication of b with an odd number gives an even number.

II. $a^2 - b$ is even.

Sol:

From the 1st statement b is even, as when multiplied by odd it gives even $a^2 - b = \text{even}$

\Rightarrow a is even

Here none of a and b are odd

6. Mr. T has a wrong weighing pan. One arm is lengthier than other. 1 kilogram on left balances 8 melons on right, 1 kilogram on right balances 2 melons on left. If all melons are equal in weight, what is the weight of a single melon.

Sol:

Let additional weight on left arm be x.

Weight of melon be m

$$x + 1 = 8 \times m \text{ ----- (1)}$$

$$x + 2 \times m = 1 \text{ ----- (2)}$$

Solving 1 & 2 we get.

Weight of a single Melon = 200 gm.

7. a, b, b, c, c, c, d, d, d, d, Find the 288th letter of this series.

Sol:

Observe that each letter appeared once, twice, thrice They form an arithmetic progression.

1+2+3..... We know that sum of first n natural numbers = $\frac{n(n+1)}{2}$

$$\text{So } \frac{n(n+1)}{2} \leq 288$$

For n = 23, we get 276. So for n = 24, the given series crosses 288. Ans is X

8. If $ABC = C^3$ and $CAB = D^3$, Then find $D^3 \div B^3$

Sol:

$$ABC = C^3$$

So, look for a number, that has a 3 digit cube, and the last digit of the cube is same as the number itself: $5^3 = 125$

$$\text{So, } CAB = 512 = 8^3 \text{ D} = 8 \text{ and B} = 2 \text{ } 8^3 \div 2^3$$

$$\text{Answer} = 64.$$

9. There are three trucks A, B, C. A loads 10 kg/min. B loads $13 \frac{1}{3}$ kg/min. C unloads 5 kg/min. If three simultaneously works then what is the time taken to load 2.4 tonnes?

Sol:

$$\text{Work done in 1 min} = 10 + 40 \frac{1}{3} - 5 = 55 \frac{1}{3} \text{ kg/min}$$

$$\text{For 1 kg} = \frac{3}{55} \text{ min}$$

$$\text{For 2.4 tonnes} = \frac{3}{55} \times 2.4 \times 1000 = 130 \text{ mins} = 2 \text{hrs } 10 \text{min}$$

10. If $A = x^3y^2$ and $B = xy^3$, then find the HCF of A, B Sol:

$$A = x^3 \times y^2$$

$$B = x^2 y^3$$

To find the HCF of the above numbers, take minimum power of x and y in both the numbers.

HCF = Common terms from both A & B and minimum powers = $x^2 y^2$

11. HERE = COMES – SHE, (Assume s = 8) Find value of R + H + O

Sol:

HERE = COMES – SHE

HERE

+ SHE

COMES

----- E+E=S=8 =>E=4

3 digit no. + 4 digit no. = 5 digit no. \Rightarrow C = 1, O = 0, H = 9 etc So $9454 + 894 = 10348$

– 894 -----

9454

R + H + O = 5 + 9 + 0 = 14

12. A person is 80 years old in 490 and only 70 years old in 500 in which year is he born? a) 400
b) 550
c) 570
d) 440

Sol:

He must have born in BC 570 Hence in BC 500 he will be 70 years And in BC 490 he will be 80 years

13. Lucia is a wonderful grandmother and her age is between 50 and 70. Each of her sons have as many sons as they have brothers. Their combined ages give Lucia's present age.what is the age?

Sol:

The question basically states that if Lucia were to have say 10 sons, then each son would have 9 sons (Lucia's grandsons – since each son has 9 brothers). So the total in this case would be 9×10 grandsons + 10 sons = 100.

Let us assume Lucia has got x sons. Now each son has (x - 1) sons. So total = x + (x - 1) x. For x = 8 we get 64 which is in between 50 and 60. (7 x 8 grandsons + 8 sons = 64)

14. A family X went for a vacation. Unfortunately it rained for 13 days when they were there. But whenever it rained in the mornings, they had clear afternoons and vice versa. In all they enjoyed 11 mornings and 12 afternoons. How many days did they stay there totally?

Sol:

Clearly 11 mornings and 12 afternoons = 23 half days since 13 days raining means 13 half days.

so $23 - 13 = 10$ half days (not affected by rain)

so 10 half days = 5 full days

Total no. of days = 13 + 5 = 18 days.

15. Find the unit digit of product of the prime number up to 50 .

Sol:

Prime number up to 50 are 2,3,5,7,11,...,43,47

Product = $2 \times 3 \times 5 \times 7 \times 11 \times \dots \times 43 \times 47$

There's a term $2 \times 5 = 10$ So unit digit of product = 0

16. HOW + MUCH = POWER Then P + O + W + E + R =

Sol: HOW

+ MUCH -----

POWER

Here p = 1 and M = 9 because after adding carry bit it gives result 10. Hence O = 0, here three digits 0, 1, 9 have been used.

Now, put all remaining value in 3rd column and check which value is suitable for H, U and W and we get H = 7, U = 8 and W = 5 and 1 carry which will be added in 4th column.

Now in first column we have W + H = R means $5 + 7 = 2$ and 1 carry will add in 2nd column in 2nd column, $0 + C = E$, $0 + 3 + 1 = 4$ so C = 3, E = 4

Therefore,

9837

+ 705

10542

so $P+O+W+E+R = 1+0+5+4+2=12$

17. Complete the series.. 2 2 12 12 30 30 ?

Sol:

Answer is 56.

It follows the series as: $1 \times 2 = 2$

$2 \times 1 = 2$

$3 \times 4 = 12$

$4 \times 3 = 12$

$5 \times 6 = 30$

$6 \times 5 = 30$

$7 \times 8 = 56$

This is the required number for the series.

Reasoning Test Placement Papers

1. Class A has a higher enrollment than Class B.

Class C has a lower enrollment than Class B.

Class A has a lower enrollment than Class C.

If the first two statements are true, the third statement is A. true

B. false

C. uncertain

D. None

Answer: Option B

2. All animals have

A. Eyes

B. Four legs C. Horns

D. Instincts

Answer: Option D

3. We, at Comfort Stationers, have always been striving to provide stationery items that would make your work more enjoyable and less strenuous. Our latest innovations are a smooth-flow pen and gradual-friction paper. A combination of these two reduces strain on your fingers and allows faster writing the causes lesser fatigue. Therefore, replacement of your pen and paper with our innovative products reduces cost of clerical jobs.

Which of the following, if true, would weaken the conclusion drawn in the above argument?

A. Those who are already using the above new products report greater difficulty in transition from new products to regular ones than from the regular ones to the new ones.

B. The cost of manufacturing these new products is not more than the cost of manufacturing the regular ones and the new products last longer than the regular ones.

C. The number of offices using the new products is increasing month by month.

D. These products need to be purchased in huge lots and need to be stored in special conditions. The cost of procurement and strong is quite high.

Answer: Option D

Solution:

The passage talks about the advantages in writing by using the new kind of pen and paper and arrives at a conclusion about the cost of clerical job. We have to show that the new products do not lead to decrease in cost of clerical job.

None of the choice (a), (c) and (e) has anything about the cost. Hence, none of them weakens the conclusion.

Choice (b) states that the new products can be manufactured and they also last longer. This information strengthens the conclusion.

According to choice (d) the procurement and storage costs are very high. This casts a doubt on the conclusion that the cost of clerical job can be decreased by using these new products. Hence, (d) weakens the conclusion.

4. Choose the correct alternative that will continue the same pattern and fill in the blank spaces:

2, 3, 5, 7, 11, (....), 17

- A. 12
- B. 13
- C. 14
- D. 15

Answer: Option B

Solution:

Clearly, the given series consists of prime numbers starting from 2. The prime number after 11 is 13. So, 13 is the missing number

5. (A) The Archaeological Survey of India has submitted a report for the Supreme Court that there is no evidence to prove that the Rama Sethu is man made.

(B) Mr. Kailash which is a natural formation, is considered holy and is received by Hindus and Buddhists the world over.

- A. if statement (A) is the cause and statement (B) is its effect.
- B. if statement (B) is the cause and statement (A) is its effect.
- C. if both the statements (A) and (B) are independent causes.

D. if both the statements (A) and (B) are effects of independent causes.

Answer: Option D

Solution:

The cause for ASIs report and the cause for Hindus and Buddhists considering Kailash as holy mountain are different.

6. Study the following information carefully and answer the given questions:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

Input: 39 121 48 18 76 112 14 45 63 96 Step I: 14 39 121 48 18 76 112 45 63 96 Step II: 14 39 48 18 76 112 45 63 96 121 Step III: 14 18 39 48 76 112 45 63 96 121 Step IV: 14 18 39 48 76 45 63 96 112 121 Step V: 14 18 39 45 48 76 63 96 112 121

Step VI: 14 18 39 45 48 63 76 96 112 121

This is the final arrangement and step VI is the last step for this input.

How many steps will be required for getting the final output for the following input?

Input: 101 85 66 49 73 39 142 25 115 74 A. 5

B. 6

C. 7

D. 8

Answer: Option D

Solution:

Step I: The smallest number becomes first and the remaining numbers shift one position rightward.

Step II: The largest number among given numbers becomes last and the remaining numbers shift one position leftward.

The steps are repeated alternately till all the numbers get arranged in ascending order and that will be that last step for that particular input.

7. Statement:

The principal instructed all the teachers to be careful in class because some students may disturb other students.

Assumptions:

I. The teachers may handle the situation properly and they may restrict the naughty students.

II. The students will welcome the decision of the Principal.

A. If only assumption I is implicit B. If only assumption II is implicit C. If either I or II is implicit

D. If neither I nor II is implicit Answer: Option A

Solution:

I is implicit; that is why the principal instructed the teachers to carry the responsibility. II is not implicit. The mischievous section may not welcome the decision.

8. Labourer is related to wages in the same way as an entrepreneur is related to?

A. Loan

B. Interest C. Taxes D. Profit

Answer: Option D

Solution:

First earns in the form of a second.

9. Event (A): Company X is opening an office in city Y for marketing the company's products.

Event (B): Company X has chalked out an expansion plan, involving raising production capacity at its existing plants.

A. If 'A' is the effect and 'B' is its immediate and principle cause.

B. If 'B' is the effect and 'A' is its immediate and principle cause.

C. If 'A' is the effect but 'B' is not its immediate and principle cause. D. If 'B' is the effect but 'A' is not its immediate and principle cause. Answer: Option C

Solution:

Events (A) and (B) are related events and chronologically (B) occurs before (A) and because of as they are planning to increase capacity, they have to make a plan to sell their products also so they open new offices for marketing those products. But opening an office in a particular city, requires other events such as market survey etc. It is not the immediate and principle cause.

10. Statement:

Cutting down of forests is a threat to the wild life. Most of the species of animals are on the verge of extinction.

Courses of Action:

I. The species of animals, which are on the verge of extinction, must be protected by creating wild life sanctuaries which contain flora that defines the native habitat of the endangered animals.

II. To the maximum extent possible we should stop deforestation. III. Growing urban forests to compensate for deforestation.

A. Only II follows

B. Only III follows

C. Only I and II follow D. Only I and follows Answer: Option C Solution:

Here the problem is extinction of various species of animals, so providing them their native habitat is the proper solution for the problem.

II is a proper course of action, as stopping deforestation can solve the problem to some extent.

III is not a proper course of action as urban forest cannot be the habitat for the wild animals.

From the first two statements, we know that of the three classes, Class A has the highest enrollment, so the third statement must be false.

11.522 1235 2661 4800 7652 11217 ?

A. 15495

B. 16208

C. 14782

D. 16921

Answer: Option A

Answer: Option C

14. EPITOMIZE

A. disappoint

B. distend

C. exemplify

D. generate Answer: Option C

15. According to pirate lore, a terrible _____ would follow whoever opened the treasure chest.

A. precursor B. precession C. rendition D. insurgence E. malediction

Answer: Option E

Reasoning Test Placement Papers

1. Class A has a higher enrollment than Class B.

Class C has a lower enrollment than Class B.

Class A has a lower enrollment than Class C.

If the first two statements are true, the third statement is A. true

B. false

C. uncertain

D. None

Answer: Option B

2. All animals have

A. Eyes

B. Four legs C. Horns

D. Instincts

Answer: Option D

3. We, at Comfort Stationers, have always been striving to provide stationery items that would make your work more enjoyable and less strenuous. Our latest innovations are a smooth-flow pen and gradual-friction paper. A combination of these two reduces strain on your fingers and allows faster writing the causes lesser fatigue. Therefore, replacement of your pen and paper with our innovative products reduces cost of clerical jobs.

Which of the following, if true, would weaken the conclusion drawn in the above argument?

A. Those who are already using the above new products report greater difficulty in transition from new products to regular ones than from the regular ones to the new ones.

B. The cost of manufacturing these new products is not more than the cost of manufacturing the regular ones and the new products last longer than the regular ones.

C. The number of offices using the new products is increasing month by month.

D. These products need to be purchased in huge lots and need to be stored in special conditions. The cost of procurement and storage is quite high.

Answer: Option D

Solution:

The passage talks about the advantages in writing by using the new kind of pen and paper and arrives at a conclusion about the cost of clerical job. We

have to show that the new products do not lead to decrease in cost of clerical job.

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None of the choice (a), (c) and (e) has anything about the cost. Hence, none of them weakens the conclusion.

Choice (b) states that the new products can be manufactured and they also last longer. This information strengthens the conclusion.

According to choice (d) the procurement and storage costs are very high. This casts a doubt on the conclusion that the cost of clerical job can be decreased by using these new products. Hence, (d) weakens the conclusion.

4. Choose the correct alternative that will continue the same pattern and fill in the blank spaces:

2, 3, 5, 7, 11, (....), 17

A. 12

B. 13

C. 14

D. 15

Answer: Option B

Solution:

Clearly, the given series consists of prime numbers starting from 2. The prime number after 11 is 13. So, 13 is the missing number

5. (A) The Archaeological Survey of India has submitted a report for the Supreme Court that there is no evidence to prove that the Rama Sethu is man made.

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(B) Mr. Kailash which is a natural formation, is considered holy and is received by Hindus and Buddhists the world over.

A. if statement (A) is the cause and statement (B) is its effect.

B. if statement (B) is the cause and statement (A) is its effect.

C. if both the statements (A) and (B) are independent causes.

D. if both the statements (A) and (B) are effects of independent causes.

Answer: Option D

Solution:

The cause for ASIs report and the cause for Hindus and Buddhists considering Kailash as holy mountain are different.

6. Study the following information carefully and answer the given questions:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

Input: 39 121 48 18 76 112 14 45 63 96 Step I: 14 39 121 48 18 76 112 45 63 96 Step II: 14 39 48 18 76 112 45 63 96 121 Step III: 14 18 39 48 76 112 45 63 96 121 Step IV: 14 18 39 48 76 45 63 96 112 121 Step V: 14 18 39 45 48 76 63 96 112 121

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Step VI: 14 18 39 45 48 63 76 96 112 121

This is the final arrangement and step VI is the last step for this input.

How many steps will be required for getting the final output for the following input?

Input: 101 85 66 49 73 39 142 25 115 74 A. 5

B. 6

C. 7

D. 8

Answer: Option D

Solution:

Step I: The smallest number becomes first and the remaining numbers shift one position rightward.

Step II: The largest number among given numbers becomes last and the remaining numbers shift one position leftward.

The steps are repeated alternately till all the numbers get arranged in ascending order and that will be that last step for that particular input.

7. Statement:

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The principal instructed all the teachers to be careful in class because some students may disturb other students.

Assumptions:

I. The teachers may handle the situation properly and they may restrict the naughty students.

II. The students will welcome the decision of the Principal.

A. If only assumption I is implicit B. If only assumption II is implicit C. If either I or II is implicit

D. If neither I nor II is implicit Answer: Option A

Solution:

I is implicit; that is why the principal instructed the teachers to carry the responsibility. II is not implicit. The mischievous section may not welcome the decision.

8. Labourer is related to wages in the same way as an entrepreneur is related to?

A. Loan

B. Interest C. Taxes D. Profit

Answer: Option D

Solution:

First earns in the form of a second.

9. Event (A): Company X is opening an office in city Y for marketing the company's products.

Event (B): Company X has chalked out an expansion plan, involving raising production capacity at its existing plants.

A. If 'A' is the effect and 'B' is its immediate and principle cause.

B. If 'B' is the effect and 'A' is its immediate and principle cause.

C. If 'A' is the effect but 'B' is not its immediate and principle cause. D. If 'B' is the effect but 'A' is not its immediate and principle cause. Answer: Option C

Solution:

Events (A) and (B) are related events and chronologically (B) occurs before (A) and because of as they are planning to increase capacity, they have to make a plan to sell their products also so they open new offices for marketing those products. But opening an office in a particular city, requires other events such as market survey etc. It is not the immediate and principle cause.

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A. Only II follows

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11.522 1235 2661 4800 7652 11217 ?

A. 15495

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B. 16208

C. 14782

D. 16921

Answer: Option A

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1.it has been raining, game has to be continued.
(a) While (b) Since
(c) Although (d) None
2. Bangalore..... record rainfall in the previous years and the year before that.
(a) had had (b) having
(c) had (d) none
3. I.....if I could but I won't because I can't.
(a) had (b) shouted
(c) would (d) should
4. Shyam ran bus to reach the office quickly.
(a) into (b) on
(c) of (d) for
5. India coffee house willthe new wave of the cafes in the city.
(a) fall down (b) fall for
(c) fall under (d) fall in
6. It seemed like this buffalonever washed before I washed him this morning.
(a) was (b) has
(c) would have (d) had
7. I.....enough of the bickering when.....I walked out of the room.
(a) had, had (b) had
(c) have, had (d) had, have
8. The two boars standing silently next to the large tree.....not seen by the two hunters.
(a) was (b) were
(c) are (d) have been
9. Either you or helate for class.
(a) was (b) were
(c) has been (d) are
10. I.....no idea until he told me.
(a) was having (b) had
(c) have (d) was

Answers

- | | | | |
|-----|------------|------|------|
| (1) | although | (2) | had |
| (3) | would | (4) | into |
| (5) | fall under | (6) | was |
| (7) | had had | (8) | were |
| (9) | was | (10) | had |

Fill in the blanks of the following sentences using the most appropriate word or words from among the options given below.

1. Planting of seeds.....more hard work than I thought.

- (a) are (b) is
(c) have been (d) are

2. Thata treat.

- (a) calls (b) calls for
(c) calls at (d) calls against of

3. The farmers aremushroom.

- (a) grow (b) raising
(c) rising (d) raise

4. The wages of sindeath.

- (a) is (b) are
(c) has (d) have

5. Only one of the girlsallowed to entering the auditorium to watch the new show.

- (a) was (b) were
(c) has (d) have

6. Everyone change to the world but no one want to change to.....

- (a) them (b) themselves
(c) himself (d) her

7. The buffalo king.....Crocodiles at mid night today.

- (a) ate (b) will eat
(c) will be eating (d) eaten

8. Either Sameer or you doing this.

- (a) was (b) were
(c) is (d) had

9. We.....our profit until FDI clarified its rule.

- (a) put down (b) bring out
(c) hold on to (d) hold on

10. I no idea util Ram told me today.

- (a) was having (b) have
(c) had (d) is having

Answers

- (1) is (2) calls for
(3) raising (4) is
(5) was (6) themselves
(7) will eat (8) were
(9) hold on to (10) had

Fill in the blanks of the following sentences using the most appropriate word or words from among the options given below.

1. One of the soldier among 4 soldiers.....brave.
(a) seem (b) seems
(c) was seem (d) is seems
2. Katrina is exhausted. She
(a) is running (b) has been running
(c) had been running (d) was running
3. He has five.....
(a) sister-in-law (b) sisters-in-law
(c) sister-in-laws (d) sisters-in-laws
4.the end of TCS came had time for Mathura and Muzaffernagar.
(a) Along (b) With
(c) Moreover (d) When
5. Varun very often spend his evening by upside down from his home.
(a) hanging (b) spending
(c) visiting (d) coming
6. Manycompanies near magnolia cheap source of labour.
(a) larger, need (b) larger, needs
(c) smaller, needs (d) smaller, need
7. Mr. Robinson was aromantic while his wife was quite the
(a) hopeless, romantic (b) bright, materialist
(c) mercy, mythic (d) depreciate, cynic
8. The least considered in latest Marxist attack.....the innocent victims.
(a) was (b) were
(c) are (d) have been
9. Sumeet and Ito beach yesterday.
(a) had gone (b) went
(c) have been (d) was
10. You.....drive any car. But younot drive mine.
(a) can, will (b) will, can

- (c) can, may (d) may, can

Answers

- (1) seems (2) had been running
(3) sisters-in-law (4) with
(5) hanging (6) smaller, need
(7) hopeless, romantic (8) were
(9) went (10) may can

Fill in the blanks of the following sentences using the most appropriate word or words from among the options given below.

1. Rani into a risk of trouble this around.
(a) got (b) has gotten
(c) had got (d) gets
2. My parents married five years.
(a) since over (b) for over
(c) over (d) for
3. Have you the keys ?
(a) forgot (b) forgotten
(c) forgets (d) forget
4. Uprooting plants like uprooting your life.
(a) are (b) have been
(c) is (d) was
5. The least considered in the market attacks the victims.
(a) was (b) were
(c) are (d) have been
6. The mangoes.....over time, said Ashok.
(a) ripen (b) will ripe
(c) ripen (d) ripe
7. I have read one novel by Premchand. I want to read by him.
(a) other (b) another
(c) all (d) few
8. I purposely..... meet you during my last visit to Kashmir.
(a) didn't (b) won't
(c) hadn't (d) wouldn't
9. Their achievement in the field of literature is described as; sometimes it is even called.....
(a) magnificent, irresponsible (b) insignificant, influential
(c) significant, paltry (d) unimportant, trivial
10. a failure of some traffic lights, traffic is moving very slowly.
(a) owing (b) due to
(c) because (d) since

Answers

- (1) got (2) for over
(3) forgotten (4) is
(5) were (6) will ripe
(7) another (8) didn't
(9) D (10) due to

Fill in the blanks of the following sentences using the most appropriate word or words from among the options given below.

1. He here for the last five years.
(a) worked (b) is working
(c) has been working (d) None
2. He thanked me for what I
(a) have done (b) had done
(c) have been doing (d) has done
3. I a strange noise.
(a) hear (b) am hearing
(c) have been hearing (d) None
4. I him for a long time.
(a) know (b) have known
(c) am knowing (d) known
5. I English for five years.
(a) study (b) am studying
(c) have been studying (d) None
6. Abdul to be a doctor.
(a) wants (b) wanting
(c) is wanting (d) want
7. He TV Most evenings.
(a) watches (b) is watch
(c) is watching (d) None
8. He out five minutes ago.
(a) has gone (b) had gone
(c) went (d) have gone
9. When he lived in Hyderabad, he to the cinema once a week.
(a) goes (b) went
(c) was going (d) None
10. The baby all morning.
(a) cries (b) has been crying
(c) have been crying (d) None

Answers

- | | |
|-------|--------|
| (1) C | (2) B |
| (3) A | (4) B |
| (5) C | (6) A |
| (7) A | (8) C |
| (9) B | (10) B |

Fill in the blanks of the following sentences using the most appropriate word or words from among the options given below.

1. Everyday last week my aunt a plate.
(a) breaks (b) broke
(c) was breaking (d) were breaking
2. I know all about that film because I it twice.
(a) saw (b) have seen
(c) had seen (d) None

3. Our guests ; they are sitting in the garden.
 (a) arrived (b) have arrived
 (c) had arrived (d) has arrived
4. I him since we met a year ago.
 (a) didn't see (b) haven't seen
 (c) hadn't seen (d) None
5. We our breakfast half an hour ago.
 (a) finished (b) have finished
 (c) had finished (d) None
6. She jumped off the bus while it
 (a) moved (b) had moved
 (c) was moving (d) has moved
7. When we went to the cinema, the film
 (a) already started (b) had already started
 (c) would already started (d) None
8. I for half an hour when it suddenly started to rain.
 (a) have walked (b) have been walking
 (c) had been walking (d) has been walking
9. Did you think you me somewhere before ?
 (a) have seen (b) had seen
 (c) were seeing (d) None
10. The town its appearance completely since 1980.
 (a) is changing (b) changed
 (c) has changed (d) had changed

Answers

- | | |
|-------|--------|
| (1) B | (2) B |
| (3) B | (4) B |
| (5) A | (6) C |
| (7) B | (8) C |
| (9) B | (10) C |

Fill in the blanks of the following sentences using the most appropriate word or words from among the options given below.

1. Man has won his dominant position on this planet by hisof technology.
 (a) command (b) emphasis
 (c) belief (d) stress
2. The day was extremely hot and, in no time, my back was drenched with.....
 (a) prickly heat (b) perspiration
 (c) sores (d) fatigue
3. The government is encouraging village upliftmentin the country.
 (a) programmes (b) designs
 (c) talks (d) propaganda
4. Satish was endowed a natural talent for music.
 (a) in (b) by
 (c) for (d) with
5. Sunlight filtering the stained glass window created a mosaic of colours on the floor.
 (a) in (b) through
 (c) at (d) into

6. Are you feeling doubtfulyour decision ?
 (a) about (b) upon
 (c) at (d) for
7. I want to study Geology now for I..... Zoology for the last three years.
 (a) am studying (b) have been studying
 (c) had studied (d) had been studying
8. In spite of the old woman's repeated entreaties, he remained
 (a) ashamed (b) docile
 (c) indifferent (d) lethargic
9. The cricket teammainly of the State players.
 (a) composed (b) consist
 (c) made with (d) comprises
10. There was competition for electoral seats.
 (a) diligent (b) rapid
 (c) cut-throat (d) sparse

Answers

- | | |
|-------|--------|
| (1) A | (2) B |
| (3) A | (4) D |
| (5) B | (6) A |
| (7) B | (8) C |
| (9) D | (10) C |

Cocubes Previous Paper Sentence Completion Based on vocabulary -1

Set 1

Fill in the blanks of the following sentences using the most appropriate words or words from among the options given below.

1. Their achievement in the field of literature is described as; sometimes it is even called.....
 (a) magnificent, irresponsible
 (b) insignificant, influential
 (c) significant, paltry
 (d) unimportant, trivial
2. From the time she had put her hair up, every man she had met had groveled before her and she had acquired a mental attitude toward the other sex which was a blend of and
 (a) admiration, tolerance
 (b) indifference, contempt
 (c) impertinence, temperance
 (d) arrogance, fidelity
3. This simplified.....to the decision-making process is a must read for anyone.....important real state, personal,or professional decisions.
 (a) primer, maximizing
 (b) tract, enacting
 (c) introduction, under
 (d) guide, facing
4. Physicians may soon haveto help paralyzed people move their limbs bypassing thenerves that once controlled their muscles.
 (a) instruments, detrimental
 (b) ways, damaged

(c) reason, involuntary

(d) impediments, complex

5. Internet is a medium where users have nearly.....choices andconstraints about where to go and what to do.

(a) unbalanced, nonexistent

(b) embarrassing, no

(c) unlimited, minimal

(d) choking, shocking

6. The best punctuation is that of which the reader is least conscious, for when punctuation, or lack of it,.....itself, it is usually because it

(a) obtrudes, offends

(b) enjoins, fails

(c) conceals, recedes

(d) effaces, counts

7. The argument that the need for a looser fiscal policy to demand outweighs the need to budget deficits is persuasive.

(a) assess, minimize

(b) outstrip, eliminate

(c) stimulate, control

(d) restrain, conceal

8. The Athenians on the whole were peaceful and prosperous, they had to sit at home and think about the universe and dispute with Socrates, or to travel abroad and the world.

(a) leisure, explore

(b) time, ignore

(c) ability, suffer

(d) temerity, understand

9. Butwe are now regularly written not just for tools but well-established practices, organisations and institutions not all of which seem to be away.

(a) reports, withering

(b) stories, trading

(c) books, dying

(d) obituaries, fading

10 The Darwin, who..... is the most remarkable for the way in which he.....the attributes of the world class thinker and head of the household

(a) comes, figures

(b) arises, adds

(c) emerges, combines

(d) appeared, combine

Answer

01. [D] unimportant, trivial 02. [B] indifference, contempt

03. [D] Guide, facing 04. [B] ways, damaged

05. [C] unlimited, minimal 06. [A] obtrudes, offends

07. [C] stimulate, control 08. [A] leisure, explore

09. [D] obituaries, fading 10. [C] emerges, combines

Set 2

Fill in the blanks of the following sentences using the most appropriate words or words from among the options given below.

1. Since her face was free of there was no way to if she appreciated what had happened.
(a) make-up, realize
(b) expression, ascertain
(c) emotion, diagnose
(d) scars, understand
2. In this context, the of the British labor movement is particularly.....
(a) affair, weird
(b) activity, moving
(c) experience, significant
(d) atmosphere, gloomy
3. Indian intellectuals may boast if they are so inclined of being to the most elitist among the intellectual of the world.
(a) subordinate, traditions
(b) heirs, cliques
(c) ancestors, societies
(d) heir, traditions
4. Though one eye is kept on thethe company now also promotes contemporary art.
(a) present, experimental
(b) future, popular
(c) present, popular
(d) market, popular
5. It will take some time for many South Koreans to the conflicting image of North Korea, let alone to.....what to make of their northern cousins.
(a) reconcile, decide
(b) understand, clarify
(c) make out, decide
(d) reconcile, understand
6. In these bleak and depressing times ofprices, non-performing governments andcrime rates, Saurav Ganguly has given us Indians a lot to cheer about.
(a) escalating, increasing
(b) spiraling, booming
(c) spiraling, soaring
(d) ascending, debilitating
7. The manners and of the nouveau riche of is a recurrent..... in the literature.
(a) style, motif
(b) morals, story
(c) wealth, theme
(d) morals, theme
8. Football evokes a response in India compared to cricket, that almostthe nation.
(a) tepid, boiling
(b) lukewarm, electrifies
(c) turbid, fascinating
(d) apocryphal, genuinely fascinates
9. Social studies, science matters of health and safety, the very atmosphere of the classroom these areas are few of thefor theof proper emotional reactions.
(a) things, growth

- (b) fertile, areas
- (c) fertile fields, inculcation
- (d) important areas, formation

10. When children become more experienced with words as visual symbols, they find that they can gain meaning without makingsounds.

- (a) aural
- (b) audible
- (c) vocal
- (d) intelligible

Answer

- | | |
|----------------------------------|--------------------------------|
| 1. (B) expression, ascertain | 2. (C) experience, significant |
| 3. (D) heir, traditions | 4. (B) future, popular |
| 5. (A) reconcile, decide | 6. (C) spiraling, soaring |
| 7. (D) morals, theme | 8. (B) lukewarm, electrifies |
| 9. (D) important areas, function | 10. (B) audible |

Set 3

Fill in the blanks of the following sentences using the most appropriate words or words from among the options given below.

1. Learning is more efficient when it isIt is less efficient when it is

- (a) fast, slow
- (b) rapid, turtle-show
- (c) tedious, like a joy ride
- (d) fun, drudgery

2. To a greater or lesser degree all the civilized countries of the world are made up of a small class of rulers..... and of large class of subjects.....

- (a) formed by a small minority, who are uncivilized
- (b) powerfully corrupt, pointless crusaders
- (c) corrupted by too much power, corrupted by too much passive obedience
- (d) who are ruled, who ruled

3. Simple arithmetic tells us that there is more than

- (a) imitation, innovation
- (b) improvisation, improvement
- (c) impracticality, knowledge
- (d) improbability, probability

4. As a step towards protesting against the spiraling prices the farmers have decided to stage a picket in an effort to.....

- (a) show their virility
- (b) make themselves heard
- (c) curb the prices
- (d) topple the government

5. Science is a sort of news agency comparable..... to other news agencies.

- (a) principally
- (b) in principle
- (c) in princially
- (d) in spirit and formation

6. Most political leaders acquire their position by causing a large number of people to believe that these leaders areby altruistic desires.

- (a) actuated

- (b) convinced
- (c) categorized
- (d) led

7. Everyone will admit that swindling one's fellow beings is a necessary practice; upon it is based the really sound commercial success formula.....

- (a) sell what you cannot buy back
- (b) buy what you will sell to another at a higher price
- (c) buy cheap and sell dear
- (d) sell what you can, do not buy from a competitor.

8. An act of justice closed the book on misdeed; an act of vengeance.....

- (a) is reprehensible
- (b) is sordid
- (c) reopens the first chapter
- (d) writes an epilogue

9. This is about a sociological analysis can penetrate.

- (a) as far as
- (b) the outer limits that
- (c) just how far into the subjects
- (d) just the relative distance that

10. I am always the first to admit that I have not accomplished everything that I..... achieve five years ago.

- (a) set out to
- (b) went to
- (c) thought to
- (d) thought of

Answer

- | | |
|--------------------------------|----------------------------------|
| 1. (D) fun, drudgery | 2. (C) corrupted by |
| 3. (A) imitation, innovation | 4. (B) make themselves heard |
| 5. (B) in principle | 6. (A) actuated |
| 7. (C) buy cheap and sell dear | 8. (C) reopens the first chapter |
| 9. (A) as far as | 10. (A) set out to |

1. This is not the first time that the management has done some.....

- (a) tough talk
- (b) tough talking
- (c) firm talk
- (d) firm taking

2. In India the talent is prodigious, and it increases

- (a) each year
- (b) year by year
- (c) annually
- (d) progressively

3. The present constitution will see amendments but its basic structure will survive.

- (a) much more
- (b) many more
- (c) too many more
- (d) quite a few more

4. Taking risks, breaking the rules, and being a maverick have always been important for companies, but today, they are
- (a) more crucial than ever
(b) more crucial
(c) much more crucial
(d) very crucial
5. Education is central because electronic networks and software driven technologies are beginning to the economy barriers between nations.
- (a) breakdown
(b) break
(c) crumble
(d) dismantle
6. Nordisk has recently a product called Glucometer.
- (a) started
(b) commissioned
(c) launched
(d) begun
7. I had already published a novel and it was an unexpected success. I thought my
- (a) days were up
(b) chances were good
(c) lady luck was happy
(d) fortune was made
8. The neighbor grabbed the boy, and rolled him on the road to the flames.
- (a) smother
(b) kill
(c) burn out
(d) fizz out
9. Sam asked me to keep his secret
- (a) secret
(b) in myself
(c) amongst us
(d) between us
10. Sometimes the greatest inventions and idea of starting simplicity.
- (a) stumbles upon
(b) hinge upon
(c) starves without
(d) lacks

Answer

- | | |
|-------------------------|-------------------------------|
| 1. (B) tough talking | 2. (B) year by year |
| 3. (B) many more | 4. (A) more crucial than ever |
| 5. (A) breakdown | 6. (C) launched |
| 7. (D) fortune was made | 8. (A) smother |
| 9. (D) between us | 10. (B) hinge upon |

Set 5

Fill in the blanks of the following sentences using the most appropriate words or words from among the options given below.

1. The thought of his weaker and more pitiable companion never perhaps to him.
- (a) leaving, struck

- (b) abandoning, came
- (c) discarding, flashed
- (d) deserting, owned

2. At midnight the storm the rolling clouds parted and the stars keenly above the sleeping camp.

- (a) ceased, twinkled
- (b) stopped, appeared
- (c) abated, glittered
- (d) continued, shined

3. In situation like the one emerging in Southern Afghanistan, America's present strategy is highly to succeed.

- (a) impractical
- (b) illustrious
- (c) unlikely
- (d) impossible

4. Some paleontologists debate whether the diversity of species has since the cambrian period, or whether imperfections in the fossil record only suggest greater diversity today, while in actuality there has been either of decreased diversity.

- (a) changed, escalation
- (b) increased, stasis
- (c) expanded, discontinuity
- (d) declined, reduction

5. Observable as a tendency of our culture is a of psychoanalysis we no longer feel that it can solve our emotional problems.

- (a) divergence, certainty about
- (b) confrontation, enigmas in
- (c) withdrawal, belief in
- (d) defense, weaknesses in

6. On the other hand, some writers have expressed that a few publishing houses refuse to publish women writers whose works are, as they are described, "not bold enough", that is they are not sensational enough to the market.

- (a) concern, stimulate
- (b) disquiet, titillate
- (c) anxiety, manoeuvre
- (d) apprehension, excite

7. Biological clocks are of adaptive value to animals since it nervous and physiological functions of the body.

- (a) immense, assumes
- (b) great, regulates
- (c) ultimate, created
- (d) high, engulfs

8. Each occupation has its own; bankers, lawyers and computer professionals, for example all use among themselves that outsiders find difficult to follow.

- (a) merits, incidents
- (b) disadvantages, methods
- (c) rewards, endearment
- (d) jargon, language

9. The two artists markedly in their temperaments, one was reserved and courteous, the other and boastful.

- (a) changed, irritable
- (b) similar, jovial
- (c) differed, rude
- (d) appeared, funny

10. Many people believed that spices help food ; however nutritionists found that most spices were of having any effect on growth of microbes present in the food.

- (a) preserve, incapable
- (b) produce, impossible
- (c) save, preventive
- (d) spoil, probable

Answer

- | | | | |
|----|---|-----|---|
| 1. | A | 2. | A |
| 3. | C | 4. | B |
| 5. | C | 6. | B |
| 7. | B | 8. | D |
| 9. | C | 10. | A |

Set 6

Fill in the blanks of the following sentences using the most appropriate words or words from among the options given below.

1. The water transport project on the West Coast is to get a shot in the arm with a new plan in which the Road Development Corporation will build the infrastructure and a private party to operate the services.

- (a) scheduled, let
- (b) verge, permit
- (c) set, sanctions
- (d) slated, allow

2. As the weekend finally rolled around, the city folk were only happy to settle down and laugh their cares

- (a) so, on
- (b) too, away
- (c) extremely, off
- (d) very, up

3. The flood of brilliant ideas has not only us, but has also encouraged us to the last date for submission of entries.

- (a) overwhelmed, extend
- (b) enjoyed, stretch
- (c) dismayed, decide
- (d) scared, scrap

4. about prolonged power cuts in urban areas, the authorities have decided to over to more reliable and eco-friendly systems to run its pumps.

- (a) worried, shift
- (b) frantic, move
- (c) troubled, jump
- (d) concerned, switch

5. The high cutoff marks this year have college admission-seekers to either for lesser known colleges or change their subject preferences.

- (a) cajoled, ask
 (b) pressured, sit
 (c) forced, settle
 (d) strained, compromise
6. Despite a growing that a lot needs to be done to help those without clean water, a says that more than 34 million people die every year of water borne diseases.
 (a) interest, reason
 (b) recognition, report
 (c) fantasy, review
 (d) authority, legend
7. Water-borne diseases are the most causes of infant deaths the world.
 (a) rare, according
 (b) regular, at
 (c) related, across
 (d) common, throughout
8. If there is nothing to absorb the energy of sound waves, they travel on , but their intensity as they travel further from their source.
 (a) everlasting, decreases
 (b) always, improves
 (c) forever, inclines
 (d) steadily, deflates
9. In an effort to provide for higher education to all, most of the universities have been providing education without adequate infrastructure, thus churning out graduates every year.
 (a) chances, fresh
 (b) platform, capable
 (c) opportunities, unemployable
 (d) prospects, eligible
10. The move to allow dumping of mercury an outcry from residents of the area who that high levels of mercury will affect their health and destroy ecologically sensitive forest area.
 (a) resulted, insist
 (b) provoked, fear
 (c) incited, determined
 (d) activated, accept

Answer

- | | | | |
|----|---|-----|---|
| 1. | D | 2. | B |
| 3. | A | 4. | D |
| 5. | C | 6. | B |
| 7. | D | 8. | D |
| 9. | C | 10. | B |

Cocubes Previous Years Question paper Paragraph Jumbles

Set 1

Arrange the sentences A, B, C and D in a proper sequence so as to make a coherent paragraph.

1. A. He was carrying his jacket and walked with his head thrown back.
 B. As Anette neared the lamp, she saw a figure walking slowly.
 C. For a while Michael walked on and she followed 20 paces behind.

- D. With a mixture of terror and triumph of recognition, she slackened her pace.
 (a) ABCD (b) BADC (c) BCDA (d) ACBD
2. A. However, the real challenge today is in unlearning which is much harder.
 B. But the new world of business behaves differently from the world in which we grew up.
 C. Learning is important for both people and organization.
 D. Each of us has 'mental model that we've used over the years to make sense.
 (a) CADB (b) BDAC (c) CDAB (d) ACBD
3. A. There was nothing quite like a heavy downpour of rain to make life worthwhile.
 B. We reached the field, soaked to the skin, and surrounded it.
 C. The wet as far as he was concerned was ideal.
 D. There, sure enough, stood Claudius, looking like a debauched Roman emperor under a shower.
 (a) DCBA (b) BDAC (c) BADC (d) BACD
4. A. Alex had never been happy with his Indian origins.
 B. He set about rectifying this grave injustice by making his house in his own image of a country manor
 C. Fate had been unfair to him; if he had his wish, he would have been a court or an Earl on some English estate, or a medieval monarch in a chateau in France.
 D. This illusion of misplaced grandeur, his wife felt, would be Alex undoing.
 (a) ACDB (b) ABDC (c) ACBD (d) CABD
5. A. The influence is reflected the most in beaded evening wear.
 B. Increasingly the influence of India's colour and cuts can be seen on western styles.
 C. And even as Nehre Jackets and Jodhpur's remain staples of the fashion world, designers such as Armani and Mc Fadden have turned to the sleek silhouette of the churidar this year.
 D. Indian hot pink, paprika and saffron continue to be popular colors, year in and year out.
 (a) BADC (b) ABCD (c) BCAD (d) DABC
6. A. Such a national policy will surely divide and never unite the people.
 B. In fact, it suits the purpose of the politicians; they can drag the people into submission by appealing to them in the name of religion.
 C. In order to inculcate the unquestioning belief they condemn the other states, which do not follow their religion.
 D. The emergence of the theocratic states where all types of crimes are committed in the name of religion, has revived the religion of the Middle Ages.
 (a) ABCD (b) DBCA (c) DBAC (d) CDAB
7. A. His left-hand concealed a blackjack, his right-hand groped for the torch in his pocket.
 B. The meeting was scheduled for 9 O'clock, and his watch showed the time to be a quarter to nine.
 C. The man lurked in the corner, away from the glare of light.
 D. His heart thumped in his chest, sweat beads formed themselves on his forehead his mouth was dry.
 (a) CABD (b) BDAC (c) BADC (d) ABCD
8. A. The director walked into the room and took a look around the class.
 B. Mitch wanted to scream- the illogicality of the entire scene struck him dumb.
 C. The managers started at him with the look of fear that no democratic country should tolerate in its people.
 D. He walked out of room- it was his irrevocable protest against an insensible and insensitive situation
 (a) ACBD (b) BDAC (c) BCAD (d) ABCD
9. A. The establishment of the Third Reich influenced events in American history by starting a chain of events which culminated in war between Germany and the United States.
 B. The Neutrality Acts of 1935 and 1936 prohibited trade with an belligerents or loans to them.

- C. While speaking out against Hitler's atrocities, the American people generally favored isolationist policies and neutrality.
- D. The complete destruction of democracy, the persecution of Jews, the war on religion, the cruelty and barbarism of the allies, caused great indignation in this country and brought on fear of another World War.
- (a) ABCD (b) CBDA (c) CDBA (d) ADCB
10. A. An essay which appeals chiefly to the intellect is Francis Bacon's *Of Studies*.
- B. His careful tripartite division of studies expressed succinctly in aphoristic prose demands the complete attention of the mind of the reader.
- C. He considers studies as they should be; for pleasure, for self-improvement, for business.
- D. He considers the evils of excess study: laziness, affectation, and preciosity.
- (a) DBCA (b) ABCD (c) CDBA (d) ACBD

Answers

- | | | | |
|-----|---|-----|---|
| 01. | B | 02. | A |
| 03. | B | 04. | C |
| 05. | A | 06. | B |
| 07. | A | 08. | A |
| 09. | D | 10. | B |

Set 2

Arrange the sentences A, B, C and D in a proper sequence so as to make a coherent paragraph.

1. A. It begins with an ordinary fever and a moderate cough.
- B. India could be under attack from a class of germs that cause what are called typical pneumonias.
- C. Slowly a sore throat progresses to bronchitis and then pneumonia and respiratory complications.
- D. It appears like the ordinary flu but baffled doctors find that the usual drugs don't work.
- (a) ABCD (b) BDAC (c) ADCB (d) BCDA
2. A. Chemists mostly don't stock it; only a few government hospitals do but in limited quantities.
- B. Delhi's building boom is creating a bizarre problem: snakes are increasingly biting people as they emerge from their distributed underground homes.
- C. There isn't enough anti-snake serum largely because there is no centralized agency that distributes the product.
- D. If things don't improve more people could face paralysis and even death.
- (a) BCAD (b) DBCA (c) ABCD (d) CABD
3. A. But the last decade has witnessed greater voting and political participation by various privileged sections.
- B. If one goes by the earlier record of mid-term elections, it is likely that the turnout in 1998 will drop by anything between four and six percentage points over the already low polling of 58 percent in 1996.
- C. If this trend offsets the mid-term poll fatigue, the fall may not be so steep.
- D. Notwithstanding a good deal of speculation on this issue it is still not clear as to who benefits from a lower turnout.
- (a) BACD (b) ABCD (c) DBAC (d) DCBA
4. A. After several routine elections, there comes a 'critical' election which redefines the basic pattern of political loyalties redraws political geography and opens up political space.
- B. In psychological jargon, they call it realignment.
- C. Rather since 1989 there have been a series of semi-critical elections.
- D. On a strict definition none of the recent Indian elections qualifies as a critical election.
- (a) ABCD (b) ABDC (c) DBAC (d) DCBA
5. A. Trivial pursuits marketed by the Congress is a game imported from Italy.
- B. The idea is to create an imaginary savior in times of crisis so that the party doesn't fall flat on its collective face.

- C. Closest contenders are Mani Shankar Aiyar who still hears His Master's Voice and V. George who is frustrated by the fact that his political future remains Sonia and yet so far.
- D. The current champion is Arjun for whom all roads lead to Rome or in this case 10 Janpath.
- (a) ABDC (b) ABCD (c) DCBA (d) CDBA
6. A. Good advertising can make people buy your products even if it sucks.
- B. A dollar spent on brain-washing is more cost-effective than a dollar spent on product improvement.
- C. That's important because it takes pressure off you to make good products.
- D. Obviously, there is a minimum quality that every product has to achieve, it should be able to withstand the shipping process without becoming unrecognizable.
- (a) BACD (b) ACBD (c) ADCB (d) BCDA
7. A. Almost a century ago, when the father of the modern automobile industry, Henry Ford, sold the first model T car he decided that only the best would do for his customers.
- B. Today, it is committed to delivering the finest quality with over six million vehicles a year in over 200 countries across the world.
- C. And for over ninety years this philosophy had endured in the Ford Motor Company.
- D. Thus, a vehicle is ready for the customer only if it passed the Ford 'Zero Defect Programme'.
- (a) ABCD (b) ACDB (c) ACBD (d) CDAB
8. A. But clearly, the government still has the final say.
- B. In the past few years, the Reserve Bank of India might have wrested considerable powers from the government when it comes to monetary policy.
- C. The RBI's announcements on certain issues become effective only after the government notifies them.
- D. Isn't it time the government vested the RBI with powers to sanction such changes, leaving their ratification for later?
- (a) ACDB (b) ACBD (c) BACD (d) DACB
9. A. I sat there frowning at the checkered table cloth, chewing the bitter cud of insight.
- B. That wintry afternoon in Manhattan, waiting in the little French restaurant, I was feeling frustrated and depressed.
- C. Even the prospect of seeing a dear friend failed to cheer me as it usually did.
- D. Because of certain miscalculations on my part, a project of considerable importance in my life had fallen through.
- (a) ADBC (b) BCDA (c) BDCA (d) ABCD
10. A. Perhaps the best known is the Bay Area Writing Project founded by James Gray in 1974.
- B. The decline in writing skills can be stopped.
- C. Today's back-to-basics movement has already forced some schools to place renewed emphasis on the three rupees.
- D. Although the inability of some teachers to teach writing successfully remains a big stumbling block, a number of programmes have been developed to attack this problem.
- (a) BCDA (b) ADCB (c) ACBD (d) CABD

Answers

- | | |
|-------|-------|
| 01. B | 02. A |
| 03. A | 04. A |
| 05. A | 06. B |
| 07. C | 08. C |
| 09. C | 10. A |

Set 3

Arrange the sentences A, B, C and D in a proper sequence so as to make a coherent paragraph.

1. A. Where there is division, there must be conflict not only division between man and women but also division on the basis of race, religion and language.
 B. We said the present condition of racial divisions, linguistic divisions has brought out so many wars.
 C. Also, we went into the question as to why do this conflict between men and women exist.
 D. May we continue with what we were discussing last evening?
 (a) ABCD (b) DBCA (c) BCAD (d) BDAC
2. A. No other document gives us so intimate a sense of the tone and temper of the first generation poets.
 B. Part of the interest of the journal is course historical.
 C. And the clues to Wordsworth's creative processes which the journal are of decisive significance.
 D. No even in their own letters do Wordsworth and Coleridge stand so present before us then they do through the references in the journal.
 (a) BACD (b) BDAC (c) CBAD (d) DABC
3. A. These high plans died, slowly but definitely, and were replaced by the dream of a huge work on philosophy.
 B. In doing whatever little he could of the new plan, the poet managed to write speculations of theology, and political theory.
 C. The poet's huge ambitions included writing a philosophic epic on the origin of evil.
 D. However, not much was done in this regard either with only fragments being written.
 (a) ABCD (b) CBAD (c) CDAB (d) CADB
4. A. We can never leave off wondering how that which has ever been should cease to be.
 B. As we advance in life, we acquire a keener sense of the value of time.
 C. Nothing else, indeed, seems to be of any consequence; and we become misers in this sense.
 D. We try arrest its few last tottering steps, and to make it linger on the brink of the grave.
 (a) ACDB (b) BCDA (c) BDCA (d) ABCD
5. A. There is no complete knowledge about anything.
 B. Our thinking is the outcome of knowledge, and knowledge is always limited.
 C. Knowledge always goes hand in hand with ignorance.
 D. Therefore, our thinking which is born out of knowledge, is always limited under all circumstances.
 (a) BCAD (b) BCDA (c) DABC (d) CBDA
6. A. there was the hope that in another existence a greater happiness would reward one.
 B. previous existence, and the effort to do better would be less difficult too when.
 C. it would be less difficult to bear the evils of one's own life if.
 D. one could think that they were but the necessary outcome of one's errors in a.
 (a) CABD (b) BDCA (c) BADC (d) CDBA
7. A. he can only renew himself if his soul.
 B. he renews himself and.
 C. the writer can only be fertile if.
 D. is constantly enriched by fresh experience.
 (a) CBAD (b) CADB (c) BDCA (d) BACD
8. A. To have settled one's affairs is a very good preparation to leading the rest of one's life without concern for the future.
 B. When I have finished this book I shall know where I stand.
 C. One does not die immediately after one has made one's will; one makes one's will as a precaution.
 D. I can afford then to do what I choose with the years that remain to me.
 (a) DBAC (b) CABD (c) BDAC (d) CBDA
9. A. It is said that India has always been in a hurry to conform to the western thought especially the American.

- B. Even the smaller countries have the guts to take a firm contrarian stand if they feel the policies happen to compromise their country's interest.
- C. Its one thing to sprout theories on liberalization, and entirely another to barter the interests of the nation in its name.
- D. In this case too, while a large number of countries are yet to ratify the GATT, India has not only ratified the treaty, but is also preparing to amend the Parents Act.
- (a) CABD (b) DCAB (c) CBDA (d) BDCA
10. A. During one exhibition, however, some air became mixed with the hydrogen, and in the words of the shaken performer: "The explosion was so dreadful that I imagined all my teeth had been blown out!"
- B. An entertainer would finished his acts by blowing the hydrogen he had inhaled towards a lighted candle; as the hydrogen caught fire, flames would shoot menacingly from his lips.
- C. A paper bag filled with hydrogen amazed guests by zooming off into space.
- D. When people learned about its unique lighter-than-air property, they began to use it in all sorts of parlor stunts.
- (a) DCBA (b) DBAC (c) CABD (d) ACBD

Answers

- | | | | |
|-----|---|-----|---|
| 01. | B | 02. | A |
| 03. | D | 04. | B |
| 05. | D | 06. | D |
| 07. | A | 08. | B |
| 09. | C | 10. | A |

Set 4

Arrange the sentences A, B, C and D in a proper sequence so as to make a coherent paragraph.

1. A. We lived in a succession of small towns in the south, never remaining at the same address for more than two years.
- B. In my case, I think it was a combination of family circumstances and physical peculiarities.
- C. I have often been asked what attracts someone to mycology, the study of biology.
- D. My father, a federal accountant, was exceptionally peripatetic.
- (a) CBDA (b) CADB (c) CBAD (d) DABC
2. A. Group decision making, however, does not necessarily fully guard against arbitrariness and anarchy, for individual capriciousness can get substituted by collusion of group members.
- B. Nature itself is an intricate system of checks and balances, meant to preserve the delicate balance between various environmental factors that affect our ecology.
- C. In institutions also, there is a need to have in place a system of checks and balances which inhibits the concentration of power in the hands of only some individuals.
- D. When human interventions alter this delicate balance, the outcomes have been seen to be disastrous.
- (a) CDAB (b) BCAD (c) CABD (d) BDCA
3. A. He was bone-weary and soul-weary, and found himself muttering, "either I can't manage this place, or it's unmanageable".
- B. To his horror, he realized that he had become the victim of an amorphous, unwitting, unconscious conspiracy to immerse him in routing work that had no significance.
- C. It was one of those nights in the office when the office clock was moving towards four in the morning and the Bennie was still not through with the incredible mass of paper stacked before him.
- D. He reached for his calendar and ran his eyes down each hour, half-hour, and quarter-hour, to see where his time had gone that day, the day before, the month before.

(a) ABCD (b) CADB (c) BDCA (d) DCBA

4. A. With that, I swallowed the shampoo, and obtained the most realistic results almost on the spot.

B. The man shuffled away into the back regions to make up prescription, and after a moment I got through on the shop– telephone to the consulate, intimating my location.

C. Then, while the pharmacist was wrapping up a six-ounce bottle of the mixture, I groaned and inquired whether he could give me something for acute gastric cramp.

D. I intended to stage a sharp gastric attack, and entering an old-fashioned pharmacy, I asked for a popular shampoo mixture, consisting of olive oil and flaked soap.

(a) DCBA (b) DACB (c) BDAC (d) BCDA

5. A. The likelihood of an accident is determined by how carefully the motorist drives and how carefully the pedestrian crosses the street.

B. An accident involving a motorist and a pedestrian is such a case.

C. Each must decide how much care to exercise without knowing how careful the other is.

D. The simplest strategic problem arises when two individuals interact with each other, and each must decide what to do without knowing what the other is doing.

(a) ABCD (b) ADCB (c) DBCA (d) DBAC

6. A. The situation in which violence occurs and the nature of that violence tends to be clearly defined at least in theory, as in the proverbial Irishman's question. 'Is this a private fight or can anyone join in'.

B. So actual risk to outsiders, though no doubt higher than our societies, is calculable.

C. Probably the only uncontrolled applications of force are those of social superiors to social inferior and even here there are probably some rules.

D. However, binding the obligation to kill members of feuding families engaged in mutual massacre will be genuinely appalled if by some mischance a bystander or outsider is killed.

(a) DABC (b) ACDB (c) CBAD (d) DBAC

7. A. In emission trading, the government fixes the total amount of pollution that is acceptable to maintain a desired level of air quality.

B. Economists argue this approach makes air pollution control more cost-effective than the current practice of fixing air pollution standards and expecting all companies to pollute below these standards.

C. USA uses emission trading to control air pollution.

D. It then distributes emission permits to all companies in the region, which add up to the overall acceptable level of emission.

(a) BADC (b) ACDB (c) CBAD (d) DBAC

8. A. The individual companies vary in size, from the corner grocery to the industrial giant.

B. Policies and management methods within firms range from formal, well-planned organization and controls to slipshod day-to-day operations.

C. Various industries offer a wide array of products or services through millions of firms largely independent of each other.

D. Variation in the form of ownership contributes to diversity in capital investment, volume of business, and financial structure.

(a) DBCA (b) CADB (c) BADC (d) ADCB

9. A. All levels of demand, whether individual, aggregate, local, national, or international are subject to change.

B. At the same time science and technology add new dimensions to products, their uses, and the methods used to market them.

C. Aggregate demand fluctuates with changes in the level of business activity, GNP and national income.

- D. The demand of individual tends to vary with changing needs are rising income.
 (a) CBDA (b) DCAB (c) BCAD (d) ADCB
- 10 A. Secret persons shall strike with weapons, fire or poison.
 B. Clans mutually supporting each other shall be made to strike at the weak points.
 C. He shall destroy their caravans, herds, forests and troop reinforcements.
 D. The conqueror shall cause enemy kingdom to be destroy by neighboring kings, jungle tribes, pretenders or unjustly treated princes.
 (a) DCBA (b) ABCD (c) BDCA (d) ADCB

Answers

- | | |
|-------|-------|
| 01. B | 02. A |
| 03. B | 04. A |
| 05. D | 06. A |
| 07. C | 08. B |
| 09. D | 10. A |

Set 5

Arrange the sentences A, B, C and D in a proper sequence so as to make a coherent paragraph.

1. A. In those countries where the ideals of liberty and equality have received the greatest devotion, and particularly in America, the political constitution has been framed with the precise object of making impossible too great a concentration of power.
 B. A philosophy that emphasizes the likeness of all men will be averse from recognizing those exceptional qualities in any individual which place him so clearly above his fellows that he may justly claim to lead and influence them.
 C. A different though related strand of thought is equalitarian.
 D. Further, when circumstances make it necessary for a particular individual to display qualities of leadership in a very high degree, his position is under constant and bitter attack on the score of dictatorship, and it is necessary for him to conceal his qualities, consciously, behind a facade of 'ordinariness'.
 (a) CBAD (b) CABD (c) CDAB (d) DCAB
2. A. It has removed many of the material obstacles to the pursuit of the good life from the majority of mankind in those countries at a high level of technical development.
 B. But it has exposed us to new dangers, not the obvious dangers of new weapons of destruction, but the much more serious ones of a purely materialist view of life.
 C. The growth of science and technology has conferred obvious and immense benefits upon the community.
 D. It has also, as we too often forget, made possible new and daring adventures of the mind.
 (a) CADB (b) ABDC (c) ACBD (d) CDBA
3. A. There are manifest dangers in the persuasive aspect of leadership.
 B. It is alarming, for example, to reflect how great a part the power to speak well has acquired in an age of broadcasting.
 C. It is quite possible for men to feel that they are freely giving their allegiance to a leader, when actually they are simply slaves of his techniques of propaganda.
 D. At its lowest, the technique of persuasion may involve all those devices of suggestion and propaganda which are so freely available to the unscrupulous in a scientific age.
 (a) ABDC (b) ACBD (c) CDBA (d) ADBC
4. A. The leader should possess high intelligence.
 B. The reasons for this frequent neglect of intelligence as a prerequisite of leadership are complex.
 C. It is certainly true to say that this is more commonly underrated than any other aspect of leadership.
 D. There is first, a very general misunderstanding of such a phrase as 'of very high intelligence.'
 (a) ABCD (b) ACBD (c) DABC (d) DBAC

5. A. When a man is his son's hero, it's about the best thing that God gave us on this planet.
 B. I can see it now with my son Anthony, who's been traveling with me and documenting my work.
 C. I was doing a lecture recently.
 D. And he was out in the audience with a camera, and I caught his face, that twinkles for a second, where his eyes said to me, that's my dad.
 (a) ABCD (b) ACBD (c) BACD (d) CBAD
6. A. On the one hand, I want very much for someone else to clean our house, as neither I nor my husband, Ed, has shown any aptitude for it.
 B. No one but me, for instance, should have to clean up the dental floss heaped like spaghetti near the wastebasket where I toss it each night, never catching on that floss is not something that can be thrown with a high degree of accuracy.
 C. On the other hand, I'd feel guilt inflicting such distasteful drudgery on another human being.
 D. Have always wanted and not wanted a cleaning person.
 (a) DACB (b) CBAD (c) CABD (d) ABDC
7. A. "To play great music," he said, "you must keep your eyes on a distant star."
 B. Eleven years old, I was taking a violin lesson with Georges Enesco, my teacher, in his Paris studio.
 C. At the time, I took this to mean, simply, "Give your very best to every piece."
 D. A deep-chested, powerful man with a rugged, gentle face, Enesco looked at me across the violin he held under his chin, and shook his bow.
 (a) BACD (b) BDAC (c) DACB (d) DABC
8. A. I felt the truth of it when I visited Rock-feller Institute.
 B. They were as dedicated as monks in a 14th century monastery, yet their lives were being fulfilled because their eyes were on the star.
 C. Here a scientist worked with quite absorption developing antibiotics; there, another investigated a possible cure for tuberculosis; a third studied the effects of too much sugar in the blood.
 D. You don't have to be a musician to benefit from my teacher's wisdom.
 (a) CBAD (b) ACDB (c) DACB (d) DABC
9. A. They learned that if they brought the kid in, they could get another \$5.
 B. The first time I went onstage with my father, I was five years old, and we were at a hotel in New York.
 C. My mother was being paid \$5 as his pianist, and he got \$15 to perform comedy and sing.
 D. I sang, "Brother, Can You Spare a Dime?"
 (a) DCBA (b) ADBC (c) BCAD (d) BADC
10. A. I did everything- conducting the orchestra, monologue, mime, audience participation, playing instruments, dancing, singing, production numbers, incredible bits and pieces and wild physicality.
 B. My mum and dad came back to the dressing room, and I said, "How was it, Dad?"
 C. Whew! I did a show in Vegas Years later, in 1980, the best two hours and 20 minutes I ever had onstage.
 D. He said, "It wasn't bad for an amateur."
 (a) DBAC (b) BCDA (c) CABD (d) BDCA

Answers

- | | |
|-------|-------|
| 01. A | 02. A |
| 03. D | 04. B |
| 05. A | 06. A |
| 07. B | 08. C |
| 09. C | 10. C |

Set 6

Arrange the sentences A, B, C and D in a proper sequence so as to make a coherent paragraph.

1. A. Add other relevant statistics, such as the number of cold calls made versus the number of resulting sales. Discuss any challenges that hindered sales for the week, such as rainy weather keeping your staff from selling outdoor equipment.

B. Give the week's sales numbers, then compare them. After giving the week's biggest accomplishment, break down the sales numbers for the week. This could be broken down by product or salesperson or whatever makes sense for the product or service you are selling. Then, include a summary of how this week's numbers compare to this time last year, to last week's numbers or how much closer you are to your quarterly sales goal.

C. Start the sales report with the date. Include the dates, the report covers, the specific department and other pertinent information, such as the sales region covered or specific product.

D. Lead with the main accomplishment or most significant number of the week. e.g. if you exceeded sales goals for the week, start with a sentence describing how much you exceeded the goals. If you increased sales 10% over the previous week, share that information.

(a) ADBC (b) CADB (c) DCBA (d) ADCB

2. A. After you fill the online form, you will be taken to page where you will be given the options to make payment. You can make a payment of Rs. 470 using your credit card, prepaid card and net banking. After payment confirmation, you will be taken to a page where you will have to fill in authentication details.

B. In case, you fail the authentication questions do not worry, you will have to send the hard copy of the application for CIBIL score generated online with the CIBIL transaction ID along with the hard copy of your Id and address proof to CIBIL. CIBIL on verification will send you the hard copy of the CIBIL credit report to your address mentioned indicated in the address proof.

C. The first step in the process of getting your personalised credit score is to fill an online form that you can find on CIBIL site. You have to mention details like name, date of birth, address, phone number, income, identity proof and address and also loans taken by you in the past.

D. To authenticate your identity you will have to answer a minimum of three questions of the five questions asked. The questions will be based on your credit history like credit cards held and and loans being serviced in your name. After a successful authentication your personalized credit score will be e-mailed to you on the same day by CIBIL.

(a) CABD (b) ACBD (c) ACDB (d) CADB

3. A. It is, however desirable that you hold securities in demat form as physical securities carry the risk of being fake, forged or stolen.

B. Just as you have to open an account with a bank if you want to save your money, make cheque payments, etc. Now-a-days, you need to open a demat account if you want to buy or sell stocks.

C. Demat refers to a dematerialised account. Though the company is under obligation to offer the securities in both physical and demat mode, you have the choice to receive the securities in either mode.

D. If you wish to have securities in demat mode, you need to indicate the name of the depository and also of the depository participant with whom you have depository account in your application.

(a) BCDA (b) CDBA (c) ABCD (d) ADCB

4. A. The next list you will need to make outlines your business's opportunities and threats. Think of both as external to your business-factors that you can't control but can try to predict. Opportunities can include new markets, new products and trends that favour your business. Threats include competition and advances in technology that put you at a disadvantage.

B. Think of your company as if it was a person with its own unique personality and identity. With that in mind, create separate lists that identify your business's strengths, weaknesses and goals. Put everything down and create big lists. Don't edit or reject anything.

C. Get down to the details that are concrete and measurable. Your marketing strategy should become a plan that included monthly review, tracking and measurement, sales forecasts, expense budgets and

non-monetary metrics for tracking progress. These can include leads, presentations, phone calls, links, blog posts, page views, conversion rates, proposals and trips, among others.

D. Now it's time to pull your lists together. Look for the intersection of your unique identity and your target market. In terms of your business offerings, what could be your drop off the list because it's not strategic. Then, think about dropping those who aren't in your target market.

(a) BACD (b) BCAD (c) BADC (d) BCDA

5. A. Sudoku conditions the mind to looking for answers that may not be immediately visible. The numbers within the box can only tell so much. The numbers within the box can only tell so much, but being able to visualise numbers which are not in the box will go a long way.

B. And that certainly helps in practically every area of life, being able to keep one's goal in focus instead of flustered by details.

C. In certain IQ tests, such people are classified as Visual Mathematicians- the ones who are able to see the big picture.

D. "Think outside the box" may just be the best advice to solving sudoku, even if it sounds a tad paradoxical.

(a) DACB (b) BACD (c) ABCD (d) CABD

6. A. Core competencies are the collective learning in the organisation.

B. especially how to co-ordinate diverse production skills and integrate multiple streams of technologies...

C. core competence is communication, involvement and a deep commitment to working across organisational boundaries... core competence does not diminish with use.

D. Unlike physical assets, which do deteriorate over time, competencies are enhanced as they are applied and shared.

(a) DABC (b) ABCD (c) CABD (d) ACBD

7. A. Comparisons between Vergil and his great Greek prototype, Homer, are inevitable, although academic, admirers of the Latin Poet find them odious, arguing that Homer composed for an audience which knew only the epic on the grand scale and that his poetry was meant to be heard, not read.

B. Nevertheless it can hardly be disputed that poetic merits of the Aeneid are far below those of Iliad, lacking the unity of purpose and integrity of construction of the earlier work as well as its truth and simplicity.

C. It is also true that Homer's society was relatively uncomplicated, with a nobility not unlike the barons of England's feudal ages, whereas Vergil's civilization was complex and he wrote for scholarly and thoroughly educated readers.

D. Perhaps a model, however masterly, can never quite capture the spontaneous freshness of a glorious original.

(a) DCBA (b) ACBD (c) CABD (d) ABCD

8. A. When the Meccans challenged Mohammed to perform a miracle as proof of his Divine mission, he appealed, boldly and confidently, to the book which was taking shape under his supervision.

B. It was indeed a miracle, the miracle of miracles, this book that had come down from heaven..

C. So wonderful a work(he maintained), written in such superlatively beautiful language and expressing the most profound and majestic of religious truths, could surely not have been written by mere man, most certainly not by such an unlettered man as he was himself.

D. The book in question was Koran, as we generally call it, although a more correct rendering is Quran, which is an Arabic word meaning reading, lecture, or recitation or perhaps which ought to be read.

(a) ACBD (b) BACD (c) ABCD (d) CDBA

9. A. Fortunately, the lack of details available about the life of Shakespeare does not apply to Dante, who is revealed to us as the hero of one of the strangest and most beautiful love stories in the world.

B. If a limit may be set to the period of medieval literature, Dante's Divine Comedy may be said to have brought it to an end in glorious climax.

C. Of all the great figures, who embellish the pageant of literature, Dante shares an equal place with the Shakespeare.

D. Here all the greatest and best in thought and work that flowered in the millenium between the fall of Roman Empire and the close of the thirteenth century, is given a new vitality and endowed with poetic passion.

(a) ACDB (b) DBAC (c) BDCA (d) CDBA

10 A. There were numerous religious shrines at home and abroad that attracted the pilgrims hosts, but in England, by far the most popular was Canterbury, where in the great cathedral stood the magnificent tomb of Thomas Beckett- St. Thomas of Canterbury- hard by the spot where in 1170 he had been brutally slain by four of King Henry's knights.

B. On an April morning, many centuries ago, a band of pilgrims set out from the Tabard inn in Southwark to go to Canterbury.

C. We should not suppose that the fact that they were pilgrims means that they were specially devout.

D. Pilgrimages in the Middle Ages- and the year in question is somewhere in the thirteen-eighties- were a most welcome break in the monotonous round of daily existence, an occasion of seeing the sight and meeting fresh people and exchanging gossip and tales of high life, and of low.

(a) DBAC (b) ACDB (c) BADC (d) BCDA

Answers

01.	B	02.	D
03.	A	04.	C
05.	A	06.	B
07.	B	08.	A
09.	C	10.	D