

Mphasis Logical Reasoning Model Placement Paper



1. In the question below, an argument is given, followed by three statements. From the options, choose the statements that can combine to produce the argument.

Argument: Digital technology can be the key to providing quality public services.

1. Digital technology can rapidly transform how countries provide services such as education and health to their citizens.

2. Countries must also anticipate and manage the associated risks of the digital revolution.

3. Managed wisely, digital technology can ensure effectiveness and transparency in the delivery of public services.

- a) Only 1 and 2
- b) Only 3
- c) Only 1 and 3
- d) Only 2 and 3

Correct Choice: c

Explanation:

(c) is the right answer. The premise talks about how digital technology can play a critical role in providing quality public services. It can be inferred by putting 1 and 3 together. 1- talks about how digital technology can cause transformation how public services are delivered. 3- talks about how it can ensure effectiveness and transparency. 2 is incorrect as it talks about anticipating the possible negative effects of digital technology.

2. In the question below, an argument is given, followed by three statements. From the options, choose the statements that can combine to produce the argument.

Argument: It is important for coffee farmers to find ways to increase profits.

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1. Some 80% of the world's coffee is grown on 25 million smallholder farms and for these producers, coffee typically represents the main, or even the only, source of income.

2. As one of the world's most popular beverages, coffee is crucial to the livelihoods of over 125 million people in more than 50 countries.

3. For smallholders, a bad crop or low prices translates into severe economic strain.

a) Only 1 and 2

b) Only 3

c) Only 1 and 3

d) Only 2 and 3

Correct Choice: c

Explanation:

(c) is the right answer. The argument states that coffee farmers need to find ways to increase their profits. It can be inferred by putting 1 and 3 together. 1- talks about how coffee is a major source of income for a 25 million smallholder farms. 3-talks about how a bad crop can lead to financial trouble for these farmers. Thus, they it is important for these farmers to find ways to increase profit. 2 is incorrect as it talks about the significance of coffee.

3. How many triangles are there in the following figure?

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- a) 5
- b) 2
- c) 6
- d) 7

Correct Choice: a

Explanation:

There are total 5 triangles present in the figure.

Hence, option a.

4. In the question, a word is represented by only one set of number as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by 2 classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbers from 0-4 and that of matrix II are numbers from 5-9. A letter from this matrix can be represented 1st by its row and next by its column. Ex- "A" can be represented by 00, 75 etc. and "B" can be represented by 20, 44, 56, 76 etc. Similarly, you have to identify the set of word "DISCOUNTABLE".

Matrix I

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	0	1	2	3	4
0	A	O	V	Y	T
1	Y	J	G	N	K
2	B	Z	I	E	C
3	U	H	S	Y	P
4	A	J	F	Q	B

Matrix II

	5	6	7	8	9
5	G	B	S	K	F
6	P	J	F	S	N
7	A	B	L	C	S
8	K	Y	R	D	C
9	P	H	G	E	R

- a) 88, 22, 57, 24, 01, 30, 13, 04, 00, 44, 77, 23
- b) 88, 22, 57, 24, 01, 30, 13, 04, 68, 44, 77, 23
- c) 88, 22, 57, 24, 01, 34, 13, 04, 00, 44, 77, 23
- d) 88, 22, 57, 24, 10, 30, 13, 04, 00, 44, 77, 23

Correct Choice: a

Explanation:

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As the digits of the numbers represented by columns and rows respectively,

D	I	S	C	O	U	N	T	A	B	L	E
		57, 68, 79, 32	24, 78, 89			13, 69		00, 75, 40	56, 20, 76, 44		23, 98
88	22			01	30		04			77	

Hence, option a.

5. If sister of B's father is the wife of N's mother's brother. How is mother of B related to K, who is N's maternal grandmother's only daughter-in-law?

- a) Sister
- b) Sister-in-law
- c) Mother
- d) Daughter-in-law

Correct Choice: b

Explanation:

If sister of B's father is the wife of N's mother's brother, so mother of B must be the sister-in-law of K, who is N's maternal grandmother's only daughter-in-law.

Hence, option b.

(6-7) Directions: Answer the questions based on the information given below.

Seven persons P, Q, R, S, T, U and V have the seminars on three different cities Bangalore, Delhi and Goa on seven days of a week starting from Monday to

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Sunday. Only one person has seminar on one day. Also, each person has different number of bus passes. The highest number of bus passes is 37 and lowest number of bus passes is 7.

S, who does not have highest number of bus passes, has seminar in Goa in one of the days before Wednesday. Only two persons have seminar in between the seminars of S and U, who has 24 passes and does not have the seminar in Bangalore. V does not have 37 passes. R has seminar after T. Q, who has seminar on Thursday, and the one who has lowest number of passes have seminars in same city but not in Delhi. Number of persons who have the seminars before P, who has seminar in Bangalore is equal to the number of persons who have seminars after the one who has highest number of passes. Only R and the one who has 35 passes have the seminar in Delhi. Difference between the passes of R and Q is 23 and the sum between the passes of R and V is 56. T has seminar after V. One of the persons, who has seminar in Goa has prime number of passes less than 23. Difference between the passes of T, who has 2nd highest passes and S, who has 2nd lowest number of passes is 26.

6. Who has the seminar just after U?

- A -R
- B -The one who has seminar in Goa
- C -The one who has 7 passes
- D -T**

Solution

S has seminar in Goa on either Tuesday or Monday. Only two persons have seminar in between the seminars of S and U, who has 24 passes.

Case I: When S has seminar on Tuesday.

Days	Person	Pass	City

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Monday			
Tuesday	S		Go a
Wednesday			
Thursday			
Friday	U	24	
Saturday			
Sunday			

Case II: When S has seminar on Monday.

Days	Person	Pass	City
Monday	S		Go a
Tuesday			
Wednesday			
Thursday	U	24	

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Friday			
Saturday			
Sunday			

Q, who has seminar on Thursday, and the one who has lowest number of passes have seminars in same city but not in Delhi. So, case II is invalid.

Numbers of persons who have the seminars before the P, who has seminar in Bangalore, is equal to the number of persons who have seminars after the one who has highest number of passes. S does not have highest number of passes.

So, again there are two possibilities either P has seminar on Sunday or Monday.

Case I: When P has seminar on Sunday.

Days	Person	Pass	City
Monday		37	
Tuesday	S		Goa
Wednesday			
Thursday	Q		Bangalore/ Goa
Friday	U	24	
Saturday			

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Sunday	P		Bangalore
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Case I(a): When P has seminar on Monday.

Days	Person	Pass	City
Monday	P		Bangalore
Tuesday	S		Goa
Wednesday			
Thursday	Q		Goa/Bangalore
Friday	U	24	
Saturday			
Sunday		37	

R has seminar after T, who has seminar after V. So, case I is invalid because V does not have 37 passes.

Difference between the passes of R and Q is 23 and the sum between the passes of R and V is 56.

So, in case I(a) R has 37 passes which means Q has 14 passes and V has 19 passes, also the one who has prime number of passes less than 23 has seminar in Goa.

Difference between the passes of T, who has 2nd highest passes and S, who has 2nd lowest number of passes is 26.

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So, if T has 36 passes and S has 8 passes than difference is 28.

If T has 35 passes and S has 8 passes than difference is 27.

If T has 35 passes and S has 9 passes than difference is 26, which is correct.

The final arrangement is:

Days	Person	Pass	City
Monday	P	7	Bangalore
Tuesday	S	9	Goa
Wednesday	V	19	Goa
Thursday	Q	14	Bangalore
Friday	U	24	Goa
Saturday	T	35	Delhi
Sunday	R	37	Delhi

T has seminar just after U.

Hence, option d.

7. Who among the following has less passes than Q?

A -The one who has seminar on Sunday

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B -T

C -The one who has seminar in Delhi

D -The one who has seminar on Tuesday

Solution

S has seminar in Goa on either Tuesday or Monday. Only two persons have seminar in between the seminars of S and U, who has 24 passes.

Case I: When S has seminar on Tuesday.

Days	Person	Pass	City
Monday			
Tuesday	S		Go a
Wednesday			
Thursday			
Friday	U	24	
Saturday			
Sunday			

Case II: When S has seminar on Monday.

Days	Person	Pass	City
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Monday	S		Go a
Tuesday			
Wednesday			
Thursday	U	24	
Friday			
Saturday			
Sunday			

Q, who has seminar on Thursday, and the one who has lowest number of passes have seminars in same city but not in Delhi. So, case II is invalid.

Numbers of persons who have the seminars before the P, who has seminar in Bangalore, is equal to the number of persons who have seminars after the one who has highest number of passes. S does not have highest number of passes.

So, again there are two possibilities either P has seminar on Sunday or Monday.

Case I: When P has seminar on Sunday.

Days	Person	Pass	City
Monday		37	

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Tuesday	S		Goa
Wednesday			
Thursday	Q		Bangalore/ Goa
Friday	U	24	
Saturday			
Sunday	P		Bangalore

Case I(a): When P has seminar on Monday.

Days	Person	Pass	City
Monday	P		Bangalore
Tuesday	S		Goa
Wednesday			
Thursday	Q		Goa/Bangalore
Friday	U	24	
Saturday			

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Sunday		37	
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R has seminar after T, who has seminar after V. So, case I is invalid because V does not have 37 passes.

Difference between the passes of R and Q is 23 and the sum between the passes of R and V is 56.

So, in case I(a) R has 37 passes which means Q has 14 passes and V has 19 passes, also the one who has prime number of passes less than 23 has seminar in Goa.

Difference between the passes of T, who has 2nd highest passes and S, who has 2nd lowest number of passes is 26.

So, if T has 36 passes and S has 8 passes than difference is 28.

If T has 35 passes and S has 8 passes than difference is 27.

If T has 35 passes and S has 9 passes than difference is 26, which is correct.

The final arrangement is:

Days	Person	Pass	City
Monday	P	7	Bangalore
Tuesday	S	9	Goa
Wednesday	V	19	Goa
Thursday	Q	14	Bangalore
Friday	U	24	Goa

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Saturday	T	35	Delhi
Sunday	R	37	Delhi

The one who has seminar on Tuesday has a smaller number of passes than Q.

Hence, option d.

8. The question given below can be answered using sentence given in only one of the options. Find out the option which can be used to answer the question.

Six persons P, Q, R, S, T, U live on six storey building having six floors such that ground floor is numbered as 1 and floor above the ground floor is numbered as 2 and so on. Each of them also likes different colors among Blue, Green, Purple, Yellow, Red and Gold

Who lives on 3rd floor and likes which color?

A -One person lives between P and U, who likes Blue color. The one who likes Yellow color lives on one of the floors above the floor on which the one who likes Blue color lives. T neither lives on 1st nor 2nd floor of the building. Q lives on floor number 4 and likes Red color.

B -Only one person lives between the floor on which T lives and the one who likes Purple color. The one who likes purple color lives above the floor number 3. R lives on sixth floor and likes Yellow color. Q lives on 4th floor and likes Red color.

C -The one who likes Green color lives above the one who likes Yellow color but below the one who likes Gold color. P neither likes Gold nor Green color. There are at most two persons live above the P's floor. Q lives immediately below P. The one who likes Red color live two floors below the floor on which Q lives.

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D -R lives on 5th floor and likes Green color. The one who likes Red color lives on 2nd floor. Only one person lives between R and T who neither likes Blue nor Purple color. The one who likes Yellow lives above the one who likes Red but not immediately above.

Solution

From Statement I: One person lives between P and U, who likes Blue color. The one who likes Yellow color lives on one of the floors above the floor on which the one who likes Blue color lives. T neither lives on 1st nor 2nd floor of the building. Q lives on floor number 4 and likes Red color

No proper information is given.

From statement II: Only one person lives between the floor on which T lives and the one who likes Purple color. The one who likes purple color lives above the floor number 3. R lives on sixth floor and likes Yellow color. Q lives on 4th floor and likes Red color.

Floor	Person	Color
6	R	Yellow
5		Purple
4	Q	Red
3	T	
2		

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1		
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So, it is clear that T lives on 3rd floor but it is not given which color does T likes.

From statement III: The one who likes Green color lives above the one who likes Yellow color but lives below the one who likes Gold color. P neither likes Gold nor Green color. There are utmost two persons live above the P's floor. Q lives immediately below P. The one who likes Red color live two floors below the floor on which Q lives.

No proper information is given.

From statement IV: R lives on 5th floor and likes Green color. The one who likes Red color lives on 2nd floor. Only one person lives between R and T who neither likes Blue nor Purple color. The one who likes Yellow lives above the one who likes Red but not immediately above.

Floor	Person	Color
6		Yellow/
5	R	Green
4		Yellow/
3	T	Gold
2		Red
1		

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Hence, it is clear from this statement that T lives on 3rd floor and likes Gold color.

From statement V: The one who lives on 2nd floor, likes Blue color. Only two persons live above P. Q does not like Red or Green. U neither lives on 1st nor 4th floor of the building. Only one person lives between U and T, who likes Purple color. Person who lives immediately above S likes Red color.

No proper information is given.

Hence, option d.

9. The question given below consists of two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the statements and give answer.

What is the position of Q with respect to T?

Statement I: Q is 5m to the north of P. R is 5m north of S. T is 5m to the east of S.

Statement II: R is 5m to the east of Q. U is 10m to the north of T.

A -Data in statement I alone is sufficient to answer the question.

B -Data in either both statement I and statement II alone sufficient to answer the question

C -Data in statement II alone is sufficient to answer the question.

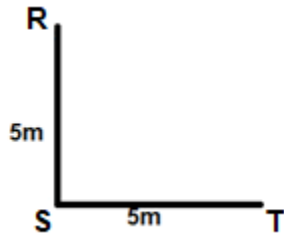
D -Data in both statement I and statement II together is sufficient to answer the question.

Solution

From statement I:

Q is 5m to the north of P. R is to the 5m north of S. T is 5m to the east of S.

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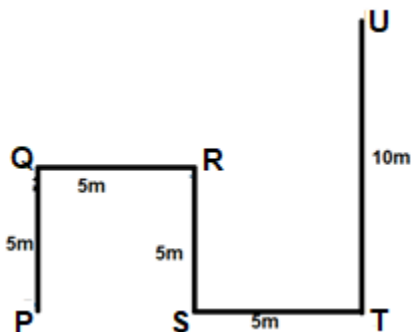


From statement II:

R is 5m to the east of Q. U is 10m to the north of T.

No proper information is given.

From both I and II.



So, from both the statements it is clear that Q is in north west of T.

Data in both statement I and statement II together is sufficient to answer the question.

Hence, option d.

10. In the following question, select the related letters from the given alternatives.

JPD: GMA :: NTW : ?

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- a) TQK
- b) NYR
- c) KQT
- d) UIP

Correct Choice: c

Explanation:

Given

JPC: GMZ :: NTW

So, the pattern is J-3=G, P-3=13, D-3=A.

N-3=K, T-3=Q, W-3=T.

Hence, option c.

11. If water is called Red, Red is called Mango, Mango is called Blue, Blue is called Rain, Rain is called Violet, Violet is called Snake, Snake is called Green and Green is called White in a certain language, then what is the color of Sky called in that language?

- a) Blue
- b) Rain
- c) Mango
- d) Red

Correct Choice: b

Explanation:

The color of Sky is Blue and Blue is called Rain.

Hence, option b.

12. Find out the odd word from the given alternatives.

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- a) Beirut
- b) Hanoi
- c) Shanghai
- d) Islamabad

Correct Choice: c

Explanation:

All are capitals cities of countries except Shanghai.

Lebanon-Beirut

Vietnam-Hanoi

Pakistan-Islamabad

Hence, option c.

13. In the question below, two statements (I) and (II) are given. These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.

I. Goat's milk has certain characteristics differing from cow's milk that make it more easily digested by infants, invalids, and persons with allergies.

II. Goat's milk is more widely purchased by hospital mess halls than cow's milk.

- a) Statement I is the cause and statement II is its effect
- b) Statement II is the cause and statement I is its effect
- c) Both the statements I and II are independent causes
- d) Both the statements I and II are effects of independent causes

Correct Choice: a

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Explanation:

I is the cause and II is its effect - I tells us how goat's milk is more digestible by infants, invalids and allergic persons, and II gives its effect - it is purchased more by hospital messes than cow's milk. Thus, (a) is the right answer.

14. In the question below there are three statements followed by three conclusions I,II and III. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

14)

Statements:

Some shoes are socks.

Each sock is shirt.

No shoe is T-shirt.

Some T-shirt are gloves.

Conclusions:

I. Some shirts are not T-shirts.

II. Some gloves are shirts.

III. Each shoe is shirt.

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

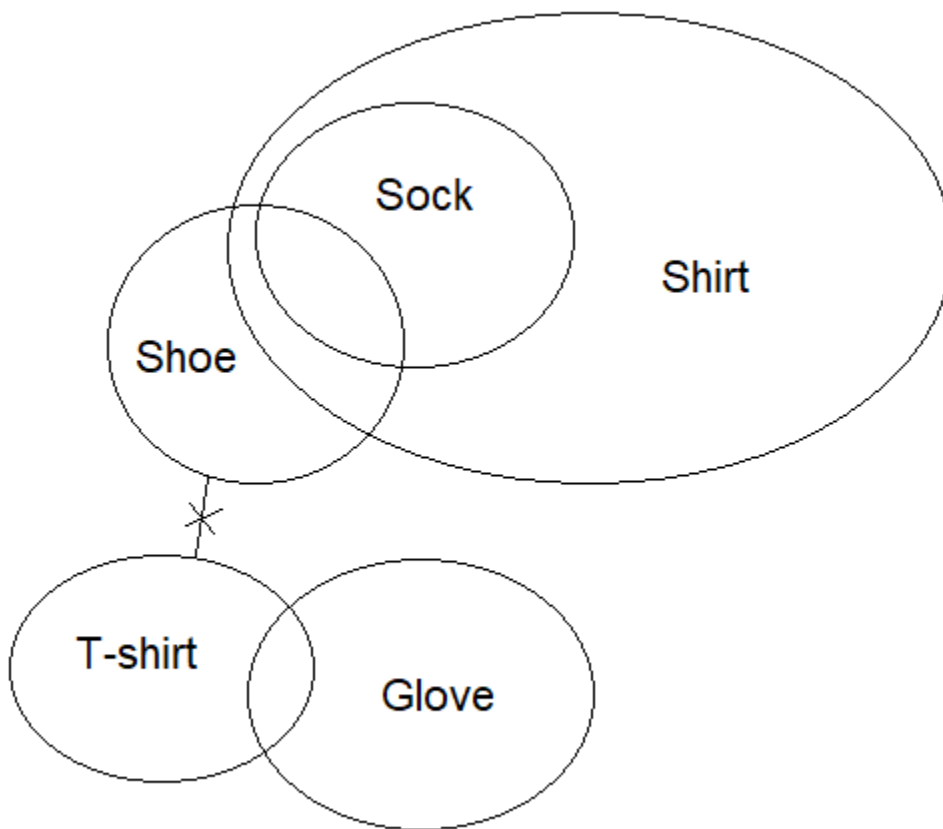
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Correct Choice: a

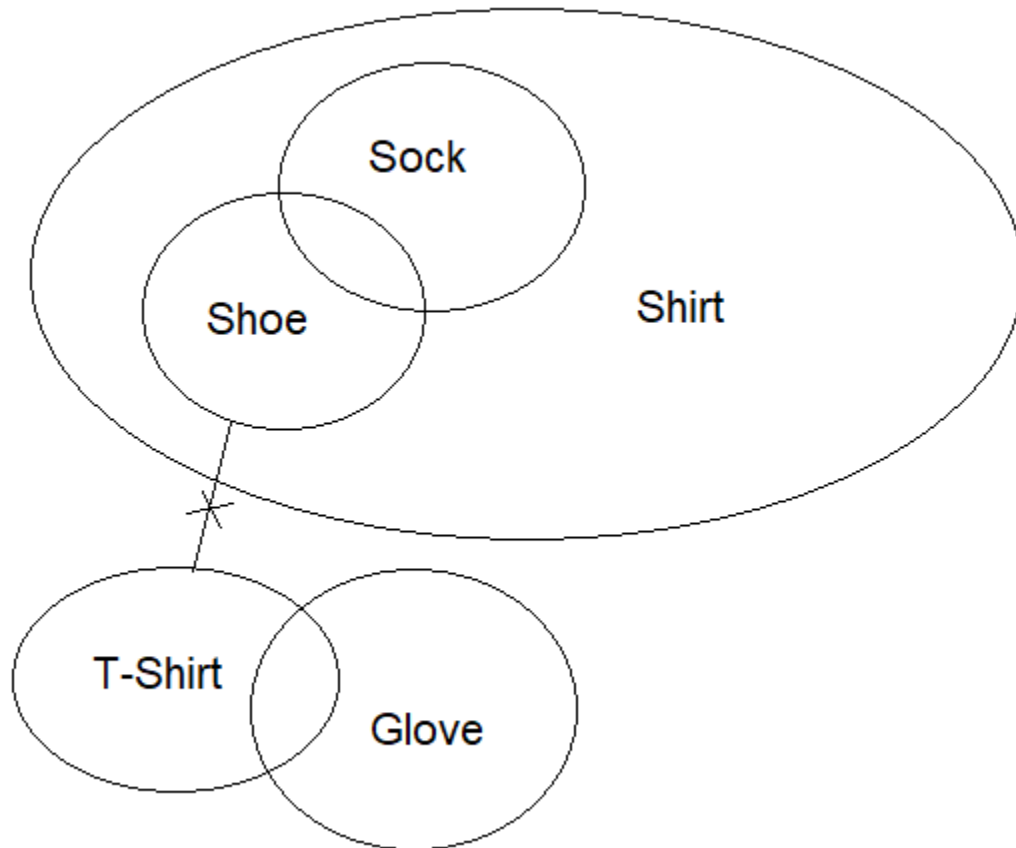
Explanation:

Following figure can be formed from the statements.



Or

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So, only conclusion I follows.

Hence, option a.

(14-15) In the question below there are three statements followed by three conclusions I, II and III. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

15)

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Statements:

20% plant are animal.

25% animal are grass.

Each animal is species.

No species is sapiens.

Conclusions:

I. No animal is sapiens.

II. Some species are grass.

III. Some plant are grass.

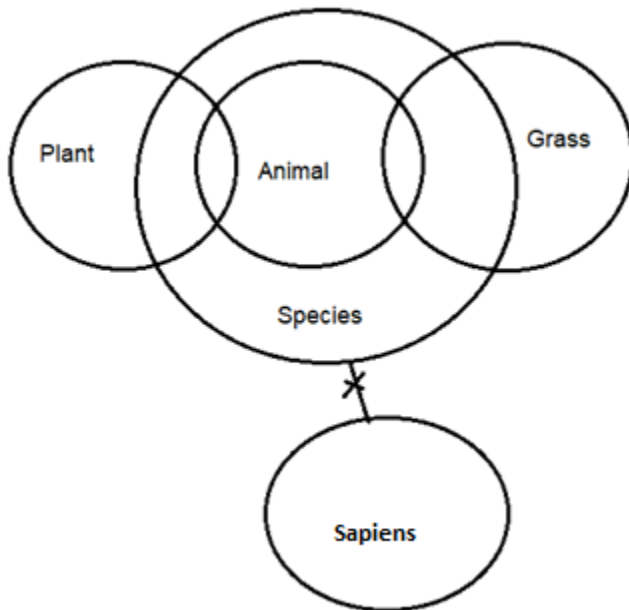
- a) Only conclusion I follows
- b) Both the conclusions I and II follow
- c) Neither conclusion I nor II follow
- d) Only conclusion II follows

Correct Choice: b

Explanation:

Following figure can be formed from the statements.

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So, both conclusion I and II follow.

Hence, option b.

16. In the question, a word is represented by only one set of number as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by 2 classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbers from 0-4 and that of matrix II are numbers from 5-9. A letter from this matrix can be represented 1st by its row and next by its column. Ex- "A" can be represented by 00, 75 etc. and "B" can be represented by 20, 44, 56, 76 etc. Similarly, you have to identify the set of word "DISCOUNTABLE".

Matrix I

	0	1	2	3	4
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0	A	O	V	Y	T
1	Y	J	G	N	K
2	B	Z	I	E	C
3	U	H	S	Y	P
4	A	J	F	Q	B

Matrix II

	5	6	7	8	9
5	G	B	S	K	F
6	P	J	F	S	N
7	A	B	L	C	S
8	K	Y	R	D	C
9	P	H	G	E	R

- a) 88, 22, 57, 24, 01, 30, 13, 04, 00, 44, 77, 23
- b) 88, 22, 57, 24, 01, 30, 13, 04, 68, 44, 77, 23
- c) 88, 22, 57, 24, 01, 34, 13, 04, 00, 44, 77, 23
- d) 88, 22, 57, 24, 10, 30, 13, 04, 00, 44, 77, 23

Correct Choice: a

Explanation:

As the digits of the numbers represented by columns and rows respectively,

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D	I	S	C	O	U	N	T	A	B	L	E
88	22	57, 68, 79, 32	24, 78, 89	01	30	13, 69	04	00, 75, 40	56, 20, 76, 44	77	23, 98

Hence, option a.

17. If all the letters of the word 'QUICKWITTED' are replaced by 3rd succeeding letter then the letters is arranged in alphabetical order, which is the 4th letter from left end?

- a) T
- b) L
- c) N
- d) W

Correct Choice: b

Explanation:

QUICKWITTED

Letters are replaced by 3rd preceding letter, so, TXLFNZLWWHG

When these letters are arranged in alphabetical order, FGHLLNTWWXZ

L is the 4th letter from left end.

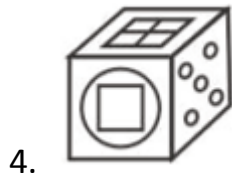
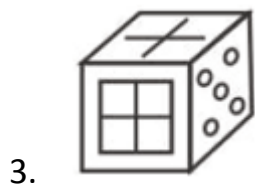
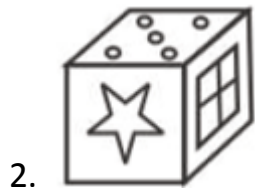
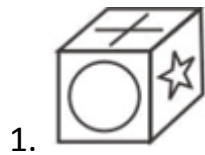
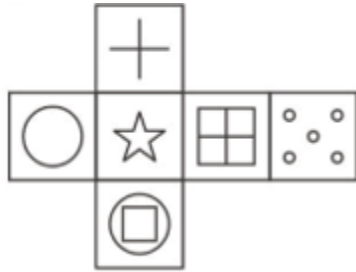
Hence, option b.

18. Which of the following cube in the answer figure cannot be made based on the

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unfolded cube in the question figure?



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Solution:

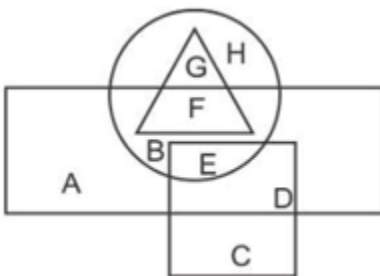
Pairs of opposite sides are



Pair of opposite sides cannot be alternative sides, so option (b) is not possible.

Ans-2

19. In the following figure, rectangle represents Dieticians, circle represents Racers, triangle represents Singers and square represents Cricketers. Which set of letters represents Dieticians who are either Racers or Singers?



1. BED
2. GH
- 3. FBE**
4. ABC

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20. In each of the following questions, three statements numbered I, II and III are given. There may be cause and effect relationship among the statements. These statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship. Read all the statements in each question and mark your answer as-

Statement I-International pop sensation Justin Bieber arrived in Mumbai on Wednesday for his maiden concert in India.

Statement II-A rage among the youth, especially teenagers, Bieber is touring to promote his critically acclaimed album 'Purpose.'

Statement III-Grammy Award winning singer Justin Bieber fought back tears during a short speech, after he performed acoustic versions of *Love Yourself* and *Cold water* at the One Love Manchester concert. **(1 Mark)**

1. Statement I will be cause and Statement II and III will be it's effects.
2. Statement II and III will be cause and I will be it's effect.
3. Statement III is cause and Statement I is it's effect and Statement II is effect of independent cause.
- 4. Statement II is cause and Statement I is it's effect and Statement III is effect of independent cause.**

Solution:In the above question statement II will be the cause and statement I will be its effect as Justin Bieber is touring to promote his album will be the cause of his arrival to Mumbai for his concert in India which is its effect. And Statement III will be the effect of a different cause as it discusses about him being emotional at a concert.

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21. **Statement-** India is buying over 1,000 new planes. However unprecedented expansion will place immense pressure on the aviation system. The industry currently appears to be underestimating the challenges ahead.

Which of the following could be the reason for the concerns about “challenges ahead” in the above statement?

(i) The buying frenzy, led by budget airlines like SpiceJet and IndiGo, is not without reason. Around 220 million Indians flew last year -- an annual increase of 20%.

(ii) The country is on track to overtake the U.K. as the world's third-largest aviation market by 2026.

(iii) Only 75 out of 400 airports are currently operational in India and even the biggest hubs like Mumbai, New Delhi and Chennai are bursting at the seams. **(2**

Mark)

1. Only (i)

2. Both (i) and (ii)

3. Only (iii)

4. Both (ii) and (iii)

Solution:Statement (i) and (ii) states a fact that supports this buying frenzy being carried out by aviation companies. Whereas (iii) clearly mentions that lack of infrastructure will be a major challenge that aviation companies might have to face in future.

22. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(96, 80, 64)

1. (64, 80, 72)

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2. (100, 88, 69)

3. (72, 56, 62)

4. (52, 64, 47)

Solution:

$$\frac{96}{4} + \frac{80}{2} = 64$$
$$\frac{100}{4} + \frac{88}{2} = 69$$

22. In the following question, select the missing number in the given series.

9, 28, 86, 261, 787, ?

1. 2366

2. 1795

3. 2175

4. 2285

Solution:

$$9 \times 3 + 1 = 28$$
$$28 \times 3 + 2 = 86$$
$$86 \times 3 + 3 = 261$$
$$261 \times 3 + 4 = 787$$
$$787 \times 3 + 5 = 2366$$

23. In a certain code language, '÷' represents '+', '-' represents 'x', '+' represents '÷' and 'x'

represents '-'. Find out the answer to the following question.

$24 \div 14 - 5 + 10 \times 14 = ?$

1. 39

2. 45

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3. 27

4. 17

Solution:

$$\begin{aligned} & 24 \div 14 - 5 + 10 \times 14 \\ \Rightarrow & 24 + 14 \times 5 \div 10 - 14 \\ = & 24 + 7 - 14 \\ = & 17 \end{aligned}$$

24. Which of the following terms follows the trend of the given list?
XXXXXXY, XXXXXYX, XXXXYXX, XXXYXXX, XXYXXXX, _____.

1. XYXXXXX

2. YXXXXXX

3. XXXXXXY

4. XXXXXYX

Solution: 'Y' is moving one position from right to left.

So, next term is XYXXXXX

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25. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

DESK: MNBT :: BURN: _____

a) KDBW

b) KDAV

c) **KDAW**

d) KDAT

Correct Choice: c

Explanation:

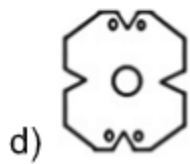
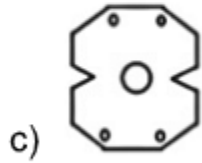
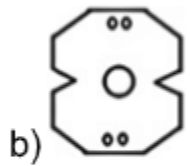
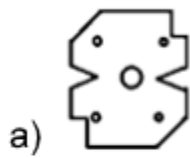
+9 series is followed

26. The sequence of folding a piece of square paper and the manner in which the folded paper has been cut is shown in the figures X, Y and Z.

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How would this paper look when unfolded?



Correct Choice : b