



SBI PO 3 July 2016 Shift 2

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Reasoning

Instructions

Study the given information carefully to answer the given questions.

Seven boxes— R, S, T, U, V, W and X, are kept one above the other, but not necessarily in the same order. Each box contains different elements Chocolates, Accessories, Ribbons, Balloons, Keys, Pins and Nuts, but not necessarily in the same order. Only three boxes are kept between U and V. The ribbon box is kept immediately above U. Only one box is kept between the ribbon box and the nuts box. The nuts box is kept below the ribbon box. Only two boxes are kept between the nuts box and R. S is kept immediately below X. S is not kept immediately above V. Only two boxes are kept between X and the Balloon box. V does not contain balloons. The chocolate box is kept immediately above W. Only three boxes are kept between the chocolates box and the accessories box. W does not contain Keys.

Question 1

How many boxes are kept between T and the nuts box?

- A None
- B Two
- C More than three
- D Three
- E One

Answer: E

Explanation:

The ribbon box is kept immediately above U.

Only one box is kept between the ribbon box and the nuts box and the nuts box is kept below the ribbon box, => The nuts box is kept immediately below U.

Only three boxes are kept between U and V, => Let V is kept at the top and thus the nuts box is kept second from the bottom.

Only two boxes are kept between the nuts box and R, => Box R is kept immediately above the ribbon box.

S is kept immediately below X and S is not kept immediately above V, => S is kept at the bottom and X is immediately above it.

Only two boxes are kept between X and the Balloon box, => Balloons are kept in box R.

The chocolate box is kept immediately above W, => V contains chocolates and W is immediately below it.

Only three boxes are kept between the chocolates box and the accessories box, => U contains accessories.

W does not contain Keys, => Box S contains keys.

Number	Box	Element
7	V	Chocolates
6	W	Pins
5	R	Balloons
4	T	Ribbons
3	U	Accessories
2	X	Nuts
1	S	Keys

There is only one box between T and the nuts box.

=> Ans - (E)

Question 2

Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to the group ?

- A X- Ribbons
- B S-Pins
- C V-Balloons
- D U-Keys
- E R-Chocolates

Answer: B

Explanation:

The ribbon box is kept immediately above U.

Only one box is kept between the ribbon box and the nuts box and the nuts box is kept below the ribbon box, => The nuts box is kept immediately below U.

Only three boxes are kept between U and V, => Let V is kept at the top and thus the nuts box is kept second from the bottom.

Only two boxes are kept between the nuts box and R, => Box R is kept immediately above the ribbon box.

S is kept immediately below X and S is not kept immediately above V, => S is kept at the bottom and X is immediately above it.

Only two boxes are kept between X and the Balloon box, => Balloons are kept in box R.

The chocolate box is kept immediately above W, => V contains chocolates and W is immediately below it.

Only three boxes are kept between the chocolates box and the accessories box, => U contains accessories.

W does not contain Keys, => Box S contains keys.

Number	Box	Element
7	V	Chocolates
6	W	Pins
5	R	Balloons
4	T	Ribbons
3	U	Accessories
2	X	Nuts
1	S	Keys

Apart from S-pins, all the other boxes mentioned in the options have one box between them.

=> Ans - (B)

Question 3

What is the position of S in the given stack of boxes ?

- A Second from the top
- B Third from the bottom
- C Fifth from the top
- D Fourth from the top
- E First from the bottom

Answer: E

Explanation:

The ribbon box is kept immediately above U.

Only one box is kept between the ribbon box and the nuts box and the nuts box is kept below the ribbon box, => The nuts box is kept immediately below U.

Only three boxes are kept between U and V, => Let V is kept at the top and thus the nuts box is kept second from the bottom.

Only two boxes are kept between the nuts box and R, => Box R is kept immediately above the ribbon box.

S is kept immediately below X and S is not kept immediately above V, => S is kept at the bottom and X is immediately above it.

Only two boxes are kept between X and the Balloon box, => Balloons are kept in box R.

The chocolate box is kept immediately above W, => V contains chocolates and W is immediately below it.

Only three boxes are kept between the chocolates box and the accessories box, => U contains accessories.

W does not contain Keys, => Box S contains keys.

Number	Box	Element
7	V	Chocolates
6	W	Pins
5	R	Balloons
4	T	Ribbons
3	U	Accessories
2	X	Nuts
1	S	Keys

Box S is at the bottom.

=> Ans - (E)

Question 4

Which of the following boxes contains pins ?

A V

B S

C Other than those given as options

D W

E X

Answer: D

Explanation:

The ribbon box is kept immediately above U.

Only one box is kept between the ribbon box and the nuts box and the nuts box is kept below the ribbon box, => The nuts box is kept immediately below U.

Only three boxes are kept between U and V, => Let V is kept at the top and thus the nuts box is kept second from the bottom.

Only two boxes are kept between the nuts box and R, => Box R is kept immediately above the ribbon box.

S is kept immediately below X and S is not kept immediately above V, => S is kept at the bottom and X is immediately above it.

Only two boxes are kept between X and the Balloon box, => Balloons are kept in box R.

The chocolate box is kept immediately above W, => V contains chocolates and W is immediately below it.

Only three boxes are kept between the chocolates box and the accessories box, => U contains accessories.

W does not contain Keys, => Box S contains keys.

Number	Box	Element
7	V	Chocolates
6	W	Pins
5	R	Balloons
4	T	Ribbons
3	U	Accessories
2	X	Nuts
1	S	Keys

Box W contains pins.

=> Ans - (D)

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Question 5

Which of the following boxes is kept immediately below 'R' ?

- A The Ribbon Box
- B X
- C W
- D V
- E The Accessories Box

Answer: A

Explanation:

The ribbon box is kept immediately above U.

Only one box is kept between the ribbon box and the nuts box and the nuts box is kept below the ribbon box, => The nuts box is kept immediately below U.

Only three boxes are kept between U and V, => Let V is kept at the top and thus the nuts box is kept second from the bottom.

Only two boxes are kept between the nuts box and R, => Box R is kept immediately above the ribbon box.

S is kept immediately below X and S is not kept immediately above V, => S is kept at the bottom and X is immediately above it.

Only two boxes are kept between X and the Balloon box, => Balloons are kept in box R.

The chocolate box is kept immediately above W, => V contains chocolates and W is immediately below it.

Only three boxes are kept between the chocolates box and the accessories box, => U contains accessories.

W does not contain Keys, => Box S contains keys.

Number	Box	Element
7	V	Chocolates
6	W	Pins
5	R	Balloons
4	T	Ribbons
3	U	Accessories
2	X	Nuts
1	S	Keys

Box T which contains ribbons is kept immediately below R.

=> Ans - (A)

Instructions

Study the following information to answer the given questions.

Eight friends— J, K, L, M, S, T, U and V are seated in a straight line, but not necessarily in the same order. Some are facing north while some face south.

- ◆ K sits second from the end of the line. U sits third to the left of K.
- ◆ T faces south. V sits fourth to the left of T. T is not an immediate neighbour of U. T does not sit at any of the extreme ends of the line.
- ◆ Both the immediate neighbours of J face north. J does not sit at any of the extreme ends of the line.
- ◆ J faces a direction opposite to that of V. (i.e. If V faces north then J faces south and viceversa.)
- ◆ L sits second to the left of J.
- ◆ Immediate neighbours of K face opposite directions (i.e. if one neighbour faces north then the other faces south and viceversa.)
- ◆ Persons sitting at extreme ends face opposite directions (i.e. If one person faces north then the other person faces south and vice-versa.)
- ◆ As many people sit between V and J as between U and S.
- ◆ Immediate neighbours of U face same directions (i.e. if one neighbour faces north then the other also faces north and viceversa).

Question 6

Which of the following is true based on the given arrangement ?

- A V sits at one of the extreme ends of the line.
- B L faces north.
- C None of the given options is true
- D Only three people face north
- E S and U face the same directions

Answer: D

Explanation:

K sits second from the end of the line and U sits third to the left of K, => Let K sits 2nd from left end, thus K faces south so that U sits 3rd to his left.

T faces south. V sits fourth to the left of T. T is not an immediate neighbour of U. T does not sit at any of the extreme ends of the line, => T sits to the immediate left of K and V sits 2nd from right end.

Both the immediate neighbours of J face north. J does not sit at any of the extreme ends of the line, => J sits between U and V, while both U and V faces north.

J faces a direction opposite to that of V, => J faces south direction.

L sits second to the left of J, => L sits at extreme right end.

As many people sit between V and J as between U and S, => S sits to the immediate left of U and thus M at left end.

Immediate neighbours of K face opposite directions, => M faces north.

Persons sitting at extreme ends face opposite directions, => L faces south.

Immediate neighbours of U face same directions, => S faces south direction.

M	K	T	S	U	J	V	L
↑	↓	↓	↓	↑	↓	↑	↓

The only true statement is that only three people face north.

=> Ans - (D)

Question 7

Who amongst the following faces north ?

A L

B M

C J

D K

E S

Answer: B

Explanation:

K sits second from the end of the line and U sits third to the left of K, => Let K sits 2nd from left end, thus K faces south so that U sits 3rd to his left.

T faces south. V sits fourth to the left of T. T is not an immediate neighbour of U. T does not sit at any of the extreme ends of the line, => T sits to the immediate left of K and V sits 2nd from right end.

Both the immediate neighbours of J face north. J does not sit at any of the extreme ends of the line, => J sits between U and V, while both U and V faces north.

J faces a direction opposite to that of V, => J faces south direction.

L sits second to the left of J, => L sits at extreme right end.

As many people sit between V and J as between U and S, => S sits to the immediate left of U and thus M at left end.

Immediate neighbours of K face opposite directions, => M faces north.

Persons sitting at extreme ends face opposite directions, => L faces south.

Immediate neighbours of U face same directions, => S faces south direction.

M	K	T	S	U	J	V	L
↑	↓	↓	↓	↑	↓	↑	↓

Among the given options, only M faces north.

=> Ans - (B)

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Question 8

Who amongst the following sits third to the left of S ?

A K

B J

C V

D L

E No one as less than three people sits to the left of S.

Answer: C

Explanation:

K sits second from the end of the line and U sits third to the left of K, => Let K sits 2nd from left end, thus K faces south so that U sits 3rd to his left.

T faces south. V sits fourth to the left of T. T is not an immediate neighbour of U. T does not sit at any of the extreme ends of the line, => T sits to the immediate left of K and V sits 2nd from right end.

Both the immediate neighbours of J face north. J does not sit at any of the extreme ends of the line, => J sits between U and V, while both U and V faces north.

J faces a direction opposite to that of V, => J faces south direction.

L sits second to the left of J, => L sits at extreme right end.

As many people sit between V and J as between U and S, => S sits to the immediate left of U and thus M at left end.

Immediate neighbours of K face opposite directions, => M faces north.

Persons sitting at extreme ends face opposite directions, => L faces south.

Immediate neighbours of U face same directions, => S faces south direction.

M	K	T	S	U	J	V	L
↑	↓	↓	↓	↑	↓	↑	↓

V sits third to the left of S.

=> Ans - (C)

Question 9

How many people sit exactly between T and U ?

- A Four
- B Three
- C Two
- D More than four
- E One

Answer: E

Explanation:

K sits second from the end of the line and U sits third to the left of K, => Let K sits 2nd from left end, thus K faces south so that U sits 3rd to his left.

T faces south. V sits fourth to the left of T. T is not an immediate neighbour of U. T does not sit at any of the extreme ends of the line, => T sits to the immediate left of K and V sits 2nd from right end.

Both the immediate neighbours of J face north. J does not sit at any of the extreme ends of the line, => J sits between U and V, while both U and V faces north.

J faces a direction opposite to that of V, => J faces south direction.

L sits second to the left of J, => L sits at extreme right end.

As many people sit between V and J as between U and S, => S sits to the immediate left of U and thus M at left end.

Immediate neighbours of K face opposite directions, => M faces north.

Persons sitting at extreme ends face opposite directions, => L faces south.

Immediate neighbours of U face same directions, => S faces south direction.

M	K	T	S	U	J	V	L
↑	↓	↓	↓	↑	↓	↑	↓

Only 1 person (S) sit exactly between T and U.

=> Ans - (E)

Question 10

Who among the following represent the persons sitting at extreme ends of the line ?

- A M, V
- B M, S
- C L, V
- D M, L
- E S, V

Answer: D

Explanation:

K sits second from the end of the line and U sits third to the left of K, => Let K sits 2nd from left end, thus K faces south so that U sits 3rd to his left.

T faces south. V sits fourth to the left of T. T is not an immediate neighbour of U. T does not sit at any of the extreme ends of the line, => T sits to the immediate left of K and V sits 2nd from right end.

Both the immediate neighbours of J face north. J does not sit at any of the extreme ends of the line, => J sits between U and V, while both U and V faces north.

J faces a direction opposite to that of V, => J faces south direction.

L sits second to the left of J, => L sits at extreme right end.

As many people sit between V and J as between U and S, => S sits to the immediate left of U and thus M at left end.

Immediate neighbours of K face opposite directions, => M faces north.

Persons sitting at extreme ends face opposite directions, => L faces south.

Immediate neighbours of U face same directions, => S faces south direction.

M	K	T	S	U	J	V	L
↑	↓	↓	↓	↑	↓	↑	↓

M and L are sitting at extreme ends of the line.

=> Ans - (D)

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Instructions

Read the following information and answer the given question.

Seven people, namely O, P, Q, R, S, T and U have to attend a practical but not necessarily in the same order, on seven different months (of the same year) namely February, March, April, June, August, September and November. Each of them also likes a different subject namely Chemistry, Biology, Psychology, Hindi, English, Geography and Account but not necessarily in the same order. The one who likes Hindi will attend a practical in a month which has 31 days. Only two people will attend a practical between the one who likes Hindi and T. Only three people will attend a practical between T and Q. Only one person will attend a practical between Q and the one who likes Accounts. The one who likes Chemistry will attend a practical in one of the months before the one who likes Accounts. The one who likes Chemistry will attend a practical in the month which has less than 30 days. Only two people will attend a practical between the one who likes Chemistry and S. Only one person will attend a practical between S and the one who likes Psychology. The one who likes Psychology will attend a practical on one of the months after S. Only two people will attend a practical between the one who likes Psychology and P. The one who likes Geography will attend a practical immediately before P. Only three people will attend a practical

between P and the one who likes English. Only one person will attend a practical between O and R. O will attend a practical in a month which has 31 days.

Question 11

Who amongst the following likes Biology ?

- A P
- B T
- C U
- D R
- E O

Answer: A

Explanation:

The one who likes Hindi will attend a practical in a month which has 31 days, => let that person attends in the month of August.

Only two people will attend a practical between the one who likes Hindi and T, => T attends practical in March.

Only three people will attend a practical between T and Q, => Q attends practical in September.

Only one person will attend a practical between Q and the one who likes Accounts, => The one who likes Accounts attends in June.

The one who likes Chemistry will attend a practical in the month which has less than 30 days, => He attends in February.

Only two people will attend a practical between the one who likes Chemistry and S, => S attends in June.

Only one person will attend a practical between S and the one who likes Psychology and the one who likes Psychology will attend a practical on one of the months after S, => The one who likes Psychology attends practicals in September.

Only two people will attend a practical between the one who likes Psychology and P, => P attends in April.

The one who likes Geography will attend a practical immediately before P, => He will attend in March.

Only three people will attend a practical between P and the one who likes English, => The one who likes English attends in November.

Only one person will attend a practical between O and R. O will attend a practical in a month which has 31 days, => O attends practical in August and R in November.

Month	Person	Subject
February	U	Chemistry
March	T	Geography
April	P	Biology
June	S	Accounts
August	O	Hindi
September	Q	Psychology
November	R	English

Clearly, P likes Biology.

=> Ans - (A)

Question 12

How many people will attend a practical after P ?

- A Three
- B One

- C Two
- D None
- E More than three

Answer: E

Explanation:

The one who likes Hindi will attend a practical in a month which has 31 days, => let that person attends in the month of August.

Only two people will attend a practical between the one who likes Hindi and T, => T attends practical in March.

Only three people will attend a practical between T and Q, => Q attends practical in September.

Only one person will attend a practical between Q and the one who likes Accounts, => The one who likes Accounts attends in June.

The one who likes Chemistry will attend a practical in the month which has less than 30 days, => He attends in February.

Only two people will attend a practical between the one who likes Chemistry and S, => S attends in June.

Only one person will attend a practical between S and the one who likes Psychology and the one who likes Psychology will attend a practical on one of the months after S, => The one who likes Psychology attends practicals in September.

Only two people will attend a practical between the one who likes Psychology and P, => P attends in April.

The one who likes Geography will attend a practical immediately before P, => He will attend in March.

Only three people will attend a practical between P and the one who likes English, => The one who likes English attends in November.

Only one people will attend a practical between O and R. O will attend a practical in a month which has 31 days, => O attends practical in August and R in November.

Month	Person	Subject
February	U	Chemistry
March	T	Geography
April	P	Biology
June	S	Accounts
August	O	Hindi
September	Q	Psychology
November	R	English

There are 4 people who will attend practical after P.

=> Ans - (E)

Question 13

Which of the following represents the people who will attend a practical immediately before and immediately after O ?

- A T, P
- B P, Q
- C S, Q
- D S, P
- E U, P

Answer: C

Explanation:

The one who likes Hindi will attend a practical in a month which has 31 days, => let that person attends in the month of August.

Only two people will attend a practical between the one who likes Hindi and T, => T attends practical in March.

Only three people will attend a practical between T and Q, => Q attends practical in September.

Only one person will attend a practical between Q and the one who likes Accounts, => The one who likes Accounts attends in June.

The one who likes Chemistry will attend a practical in the month which has less than 30 days, => He attends in February.

Only two people will attend a practical between the one who likes Chemistry and S, => S attends in June.

Only one person will attend a practical between S and the one who likes Psychology and the one who likes Psychology will attend a practical on one of the months after S, => The one who likes Psychology attends practicals in September.

Only two people will attend a practical between the one who likes Psychology and P, => P attends in April.

The one who likes Geography will attend a practical immediately before P, => He will attend in March.

Only three people will attend a practical between P and the one who likes English, => The one who likes English attends in November.

Only one people will attend a practical between O and R. O will attend a practical in a month which has 31 days, => O attends practical in August and R in November.

Month	Person	Subject
February	U	Chemistry
March	T	Geography
April	P	Biology
June	S	Accounts
August	O	Hindi
September	Q	Psychology
November	R	English

S and Q will attend practical immediately before and immediately after O respectively.

=> Ans - (C)

SBI PO Free Mocks (Latest Pattern)

Question 14

As per the given arrangement February is related to T and March is related to P following a certain pattern, which of the following is August related to following the same pattern ?

- A U
- B Q
- C R
- D S
- E O

Answer: B

Explanation:

The one who likes Hindi will attend a practical in a month which has 31 days, => let that person attends in the month of August.

Only two people will attend a practical between the one who likes Hindi and T, => T attends practical in March.

Only three people will attend a practical between T and Q, => Q attends practical in September.

Only one person will attend a practical between Q and the one who likes Accounts, => The one who likes Accounts attends in June.

The one who likes Chemistry will attend a practical in the month which has less than 30 days, => He attends in February.

Only two people will attend a practical between the one who likes Chemistry and S, => S attends in June.

Only one person will attend a practical between S and the one who likes Psychology and the one who likes Psychology will attend a

practical on one of the months after S, => The one who likes Psychology attends practicals in September.

Only two people will attend a practical between the one who likes Psychology and P, => P attends in April.

The one who likes Geography will attend a practical immediately before P, => He will attend in March.

Only three people will attend a practical between P and the one who likes English, => The one who likes English attends in November.

Only one people will attend a practical between O and R. O will attend a practical in a month which has 31 days, => O attends practical in August and R in November.

Month	Person	Subject
February	U	Chemistry
March	T	Geography
April	P	Biology
June	S	Accounts
August	O	Hindi
September	Q	Psychology
November	R	English

February is related to T, => T attends practical immediately after February.

March is related to P, => P attends practical immediately after March.

Similarly, Q attends practical immediately after August, thus August is related to Q.

=> Ans - (B)

Question 15

Which of the following represents the month in which U will attend a practical ?

- A November
- B February
- C April
- D June
- E Cannot be determined

Answer: B

Explanation:

The one who likes Hindi will attend a practical in a month which has 31 days, => let that person attends in the month of August.

Only two people will attend a practical between the one who likes Hindi and T, => T attends practical in March.

Only three people will attend a practical between T and Q, => Q attends practical in September.

Only one person will attend a practical between Q and the one who likes Accounts, => The one who likes Accounts attends in June.

The one who likes Chemistry will attend a practical in the month which has less than 30 days, => He attends in February.

Only two people will attend a practical between the one who likes Chemistry and S, => S attends in June.

Only one person will attend a practical between S and the one who likes Psychology and the one who likes Psychology will attend a practical on one of the months after S, => The one who likes Psychology attends practicals in September.

Only two people will attend a practical between the one who likes Psychology and P, => P attends in April.

The one who likes Geography will attend a practical immediately before P, => He will attend in March.

Only three people will attend a practical between P and the one who likes English, => The one who likes English attends in November.

Only one people will attend a practical between O and R. O will attend a practical in a month which has 31 days, => O attends practical in August and R in November.

Month	Person	Subject
February	U	Chemistry
March	T	Geography
April	P	Biology
June	S	Accounts
August	O	Hindi
September	Q	Psychology
November	R	English

U will attend practical in February.

=> Ans - (B)

Question 16

Who amongst the following likes English ?

- A S
- B T
- C U
- D R
- E Other than those given as options

Answer: D

Explanation:

The one who likes Hindi will attend a practical in a month which has 31 days, => let that person attends in the month of August.

Only two people will attend a practical between the one who likes Hindi and T, => T attends practical in March.

Only three people will attend a practical between T and Q, => Q attends practical in September.

Only one person will attend a practical between Q and the one who likes Accounts, => The one who likes Accounts attends in June.

The one who likes Chemistry will attend a practical in the month which has less than 30 days, => He attends in February.

Only two people will attend a practical between the one who likes Chemistry and S, => S attends in June.

Only one person will attend a practical between S and the one who likes Psychology and the one who likes Psychology will attend a practical on one of the months after S, => The one who likes Psychology attends practicals in September.

Only two people will attend a practical between the one who likes Psychology and P, => P attends in April.

The one who likes Geography will attend a practical immediately before P, => He will attend in March.

Only three people will attend a practical between P and the one who likes English, => The one who likes English attends in November.

Only one people will attend a practical between O and R. O will attend a practical in a month which has 31 days, => O attends practical in August and R in November.

Month	Person	Subject
February	U	Chemistry
March	T	Geography
April	P	Biology
June	S	Accounts
August	O	Hindi
September	Q	Psychology
November	R	English

R likes English.

=> Ans - (D)

SBI Clerk Free Mock Test (Latest Pattern)

Instructions

In these questions, relationship between different elements is shown in the statements. The statements are followed by two conclusions. Study the conclusions based on the given statements and select the appropriate answer.

Give answer :

- a: If either conclusion I or II is true
- b: If both conclusions I and II are true
- c: If only conclusion I is true
- d: If only conclusion II is true
- e: If neither conclusion I nor II is true

Question 17

Statements :

$$C < O \leq Z \geq Y ; N > Z < M$$

Conclusions :

- I. $N > Y$
- II. $C < M$

- A If either conclusion I or II is true
- B If both conclusions I and II are true
- C If only conclusion I is true
- D If only conclusion II is true
- E If neither conclusion I nor II is true

Answer: B

Question 18

Statements :

$$C < O \leq Z \geq Y ; N > Z < M$$

Conclusions :

- I. $C < N$
- II. $O > M$

- A If either conclusion I or II is true
- B If both conclusions I and II are true
- C If only conclusion I is true

D If only conclusion II is true

E If neither conclusion I nor II is true

Answer: C

Explanation:

C is less than Z and N is greater than Z. Therefore, C is definitely less than Z. Conclusion I is true.

M is greater than Z. Z is greater than or equal to O. Therefore, M is definitely greater than O. Conclusion II states that M is less than O. Therefore, conclusion II is definitely false.

Only conclusion I is true. Therefore, option C is the correct answer.

Question 19

Statements :

$C < H \leq Z \geq Y ; T > Z < M$

Conclusions :

I. $H > M$

II. $T > C$

A If either conclusion I or II is true

B If both conclusions I and II are true

C If only conclusion I is true

D If only conclusion II is true

E If neither conclusion I nor II is true

Answer: D

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Question 20

Statements :

$J > K \geq L < X ; D \geq U > K$

Conclusions :

I. $L > D$

II. $X > J$

A If either conclusion I or II is true

B If both conclusions I and II are true

C If only conclusion I is true

D If only conclusion II is true

E If neither conclusion I nor II is true

Answer: E

Question 21

Statements :

$N \geq O = P \geq B \geq R$

Conclusions :

I. $R < N$

II. $R = N$

- A If either conclusion I or II is true
- B If both conclusions I and II are true
- C If only conclusion I is true
- D If only conclusion II is true
- E If neither conclusion I nor II is true

Answer: A

Instructions

Read the given information carefully and answer the questions.

Each of the six buildings, C, D, E, F, G and H has different number of floors. E has the second lowest number of floors. D has more number of floors than C and H but less than F. F does not have the maximum number of floors. H has less number of floors than both G and E. The building having second highest number of floors has 40 floors. C has 28 floors.

Question 22

If the number of floors in buildings E + C is seven more than the number of floors in building F, how many floors are there in building E ?

- A 47
- B 19
- C 34
- D 12
- E 15

Answer: B

Explanation:

E has the second lowest number of floors.

D has more number of floors than C and H but less than F, => $F > D > C, H$

Also, F does not have the maximum number of floors, => F has second highest number of floors and D has 3rd highest.

H has less number of floors than both G and E, => H has the least floors and G has the highest floors.

Combining above statements, we get :

$$\therefore G > F > D > C > E > H$$

Number of floors of F = 40 and C = 28

Let number of floors in E = x

$$\Rightarrow x + 28 = 40 + 7$$

$$\Rightarrow x = 47 - 28 = 19$$

=> Ans - (B)

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Question 23

How many floors does building H possibly have ?

- A 56

- B 41
- C 30
- D 16
- E 35

Answer: D

Explanation:

E has the second lowest number of floors.

D has more number of floors than C and H but less than F, $\Rightarrow F > D > C, H$

Also, F does not have the maximum number of floors, $\Rightarrow F$ has second highest number of floors and D has 3rd highest.

H has less number of floors than both G and E, $\Rightarrow H$ has the least floors and G has the highest floors.

Combining above statements, we get :

$$\therefore G > F > D > C > E > H$$

Number of floors of F = 40 and C = 28

H has the least number of floors and thus less than 28 i.e, 16

\Rightarrow Ans - (D)

Question 24

Which of the following is true regarding the number of floors in building G ?

- A The difference between number of floors in G and C is less than 12.
- B Only D has more number of floors than G.
- C G has more number of floors than only one building.
- D No other building has less floors than G.
- E G possibly has 47 floors.

Answer: E

Explanation:

E has the second lowest number of floors.

D has more number of floors than C and H but less than F, $\Rightarrow F > D > C, H$

Also, F does not have the maximum number of floors, $\Rightarrow F$ has second highest number of floors and D has 3rd highest.

H has less number of floors than both G and E, $\Rightarrow H$ has the least floors and G has the highest floors.

Combining above statements, we get :

$$\therefore G > F > D > C > E > H$$

Number of floors of F = 40 and C = 28

G has the highest number of floors, thus G has more floors than 40 i.e., 47 floors.

\Rightarrow Ans - (E)

Instructions

Read the following information and answer the given questions.

Point U is 35 m to the west of Point W. Point W is 20 m to the south of Point H. Point H is 25 m to the east of Point S. Shubham is standing at point Z which is 40 m to the south of Point S. He, starts walking towards east and walks for 30 m. He takes a left turn and stops at Point K after walking for 20 m.

Question 25

If Shubham walks for 15 m towards west from his final position to reach point V, how much distance will he have to cover in order to reach Point U ?

- A 30 m
- B 15 m
- C 35 m
- D 25 m
- E 20 m

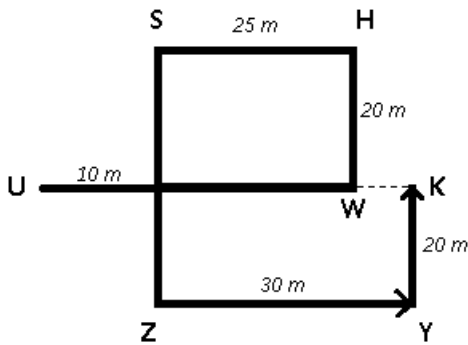
Answer: D

Explanation:

Point U is 35 m to the west of Point W and Point W is 20 m to the south of Point H. Also, point H is 25 m to the east of Point S.

Shubham is standing at point Z which is 40 m to the south of Point S.

He then starts walking towards east and walks for 30 m and reaches point Y and finally stops at point K.



Distance UK = 10 + 30 = 40 m

If Shubham walks for 15 m towards west from K to reach point V

=> Distance between UV = 40 - 15 = 25 m

=> Ans - (D)

Question 26

How far and in which direction is Point W with respect to Point K ?

- A 10 m towards North
- B 10 m towards West
- C 5 m towards East
- D 5 m towards West
- E 15 m towards East

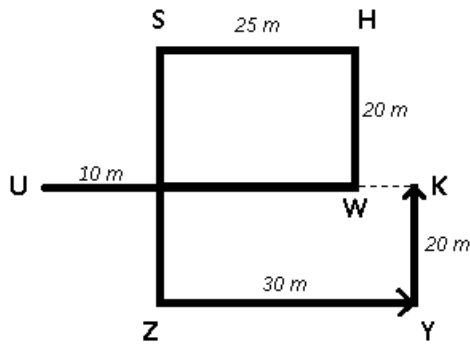
Answer: D

Explanation:

Point U is 35 m to the west of Point W and Point W is 20 m to the south of Point H. Also, point H is 25 m to the east of Point S.

Shubham is standing at point Z which is 40 m to the south of Point S.

He then starts walking towards east and walks for 30 m and reaches point Y and finally stops at point K.



W is in west direction with respect to point K, distance $WK = 30 - 25 = 5$ m

=> Ans - (D)

Instructions

Study the following information and answer the given questions.

Seven people namely D, E, F, G, H, I and J like seven different monuments namely, Taj Mahal, Red Fort, Charminar, India Gate, Qutub Minar, Victoria Memorial and Sanchi Stupa. Each of them work in either of the three fields viz. Economics, Management and Pharmacy with atleast two of them in a field. (Note: None of the information given is necessarily in the same order.) The one who likes Qutub Minar works in field of Management only with G. The one who likes Charminar works with the one who likes Sanchi Stupa. J works with the one who likes India Gate. I neither works with G nor in the field of Pharmacy. J does not like Charminar. D likes Red Fort. D does not work with J. F work with only one person. F does not like Qutub Minar. H works with I. I does not like Charminar. Neither G nor F likes Taj Mahal.

Question 27

Which of the following combinations represents the combination of people who work in the field of Economics ?

- A The ones who like Victoria Memorial, Taj Mahal and India Gate.
- B The ones who like Charminar and Sanchi Stupa.
- C The ones who like Char Minar, Sanchi Stupa and Victoria Memorial.
- D The ones who like Taj Mahal and India Gate.
- E The ones who like Sanchi Stupa, Red Fort and Char Minar.

Answer: E

Explanation:

The one who likes Qutub Minar works in field of Management only with G, => Only 2 people work in Management.

I neither works with G nor in the field of Pharmacy, => I works in Economics.

F work with only one person and F does not like Qutub Minar, => F works in pharmacy with only one other person and thus there are 3people who work in Economics.

H works with I, => H works in Economics.

J works with the one who likes India Gate, => J works in Pharmacy and thus F likes India Gate.

=> E works in Management with G and likes Qutub Minar, and thus D works in Economics.

The one who likes Charminar works with the one who likes Sanchi Stupa and I does not like Charminar, => H likes Charminar and I likes Sanchi Stupa.

G does not likes Taj Mahal, => J likes Taj Mahal.

Person	Field	Monument
D	Economics	Red Fort
E	Management	Qutub Minar
F	Pharmacy	India Gate
G	Management	Victoria Memorial
H	Economics	Charminar
I	Economics	Sanchi Stupa
J	Pharmacy	Taj Mahal

D,H and I work in Economics and they like Red Fort, Charminar and Sanchi Stupa respectively.

=> Ans - (E)

Question 28

Which of the following statements is true ?

- A H likes Sanchi Stupa
- B E works only with J.
- C All of the given statements are true.
- D Both D and H work in the same field.
- E Only two people work in the field of economics.

Answer: D

Explanation:

The one who likes Qutub Minar works in field of Management only with G, => Only 2 people work in Management.

I neither works with G nor in the field of Pharmacy, => I works in Economics.

F work with only one person and F does not like Qutub Minar, => F works in pharmacy with only one other person and thus there are 3people who work in Economics.

H works with I, => H works in Economics.

J works with the one who likes India Gate, => J works in Pharmacy and thus F likes India Gate.

=> E works in Management with G and likes Qutub Minar, and thus D works in Economics.

The one who likes Charminar works with the one who likes Sanchi Stupa and I does not like Charminar, => H likes Charminar and I likes Sanchi Stupa.

G does not likes Taj Mahal, => J likes Taj Mahal.

Person	Field	Monument
D	Economics	Red Fort
E	Management	Qutub Minar
F	Pharmacy	India Gate
G	Management	Victoria Memorial
H	Economics	Charminar
I	Economics	Sanchi Stupa
J	Pharmacy	Taj Mahal

The only true statement is that both D and H work in the same field.

=> Ans - (D)

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Question 29

Which of the following combinations represents the field in which H works and the monument he likes ?

- A Economics-Taj Mahal
- B Pharmacy-India Gate
- C Management - India Gate
- D Economics-Charminar
- E Pharmacy-Charminar

Answer: D

Explanation:

The one who likes Qutub Minar works in field of Management only with G, => Only 2 people work in Management.

I neither works with G nor in the field of Pharmacy, => I works in Economics.

F work with only one person and F does not like Qutub Minar, => F works in pharmacy with only one other person and thus there are 3 people who work in Economics.

H works with I, => H works in Economics.

J works with the one who likes India Gate, => J works in Pharmacy and thus F likes India Gate.

=> E works in Management with G and likes Qutub Minar, and thus D works in Economics.

The one who likes Charminar works with the one who likes Sanchi Stupa and I does not like Charminar, => H likes Charminar and I likes Sanchi Stupa.

G does not likes Taj Mahal, => J likes Taj Mahal.

Person	Field	Monument
D	Economics	Red Fort
E	Management	Qutub Minar
F	Pharmacy	India Gate
G	Management	Victoria Memorial
H	Economics	Charminar
I	Economics	Sanchi Stupa
J	Pharmacy	Taj Mahal

H likes Charminar and works in Economics.

=> Ans - (D)

Question 30

Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Which of the following does not belong to that group ?

- A HI
- B JF
- C GE
- D EJ
- E ID

Answer: D

Explanation:

The one who likes Qutub Minar works in field of Management only with G, => Only 2 people work in Management.

I neither works with G nor in the field of Pharmacy, => I works in Economics.

F work with only one person and F does not like Qutub Minar, => F works in pharmacy with only one other person and thus there are 3people who work in Economics.

H works with I, => H works in Economics.

J works with the one who likes India Gate, => J works in Pharmacy and thus F likes India Gate.

=> E works in Management with G and likes Qutub Minar, and thus D works in Economics.

The one who likes Charminar works with the one who likes Sanchi Stupa and I does not like Charminar, => H likes Charminar and I likes Sanchi Stupa.

G does not likes Taj Mahal, => J likes Taj Mahal.

Person	Field	Monument
D	Economics	Red Fort
E	Management	Qutub Minar
F	Pharmacy	India Gate
G	Management	Victoria Memorial
H	Economics	Charminar
I	Economics	Sanchi Stupa
J	Pharmacy	Taj Mahal

Apart from E and J, all the mentioned pairs work in the same field.

=> Ans - (D)

Question 31

Which of the following monuments does E like ?

- A Taj Mahal
- B Qutub Minar
- C Sanchi Stupa
- D Char Minar
- E India Gate

Answer: B

Explanation:

The one who likes Qutub Minar works in field of Management only with G, => Only 2 people work in Management.

I neither works with G nor in the field of Pharmacy, => I works in Economics.

F work with only one person and F does not like Qutub Minar, => F works in pharmacy with only one other person and thus there are 3people who work in Economics.

H works with I, => H works in Economics.

J works with the one who likes India Gate, => J works in Pharmacy and thus F likes India Gate.

=> E works in Management with G and likes Qutub Minar, and thus D works in Economics.

The one who likes Charminar works with the one who likes Sanchi Stupa and I does not like Charminar, => H likes Charminar and I likes Sanchi Stupa.

G does not likes Taj Mahal, => J likes Taj Mahal.

Person	Field	Monument
D	Economics	Red Fort
E	Management	Qutub Minar
F	Pharmacy	India Gate
G	Management	Victoria Memorial
H	Economics	Charminar
I	Economics	Sanchi Stupa
J	Pharmacy	Taj Mahal

E likes Qutub Minar.

=> Ans - (B)

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Question 32

Who amongst the following likes Victoria Memorial ?

A H

B J

C I

D G

E F

Answer: D

Explanation:

The one who likes Qutub Minar works in field of Management only with G, => Only 2 people work in Management.

I neither works with G nor in the field of Pharmacy, => I works in Economics.

F work with only one person and F does not like Qutub Minar, => F works in pharmacy with only one other person and thus there are 3people who work in Economics.

H works with I, => H works in Economics.

J works with the one who likes India Gate, => J works in Pharmacy and thus F likes India Gate.

=> E works in Management with G and likes Qutub Minar, and thus D works in Economics.

The one who likes Charminar works with the one who likes Sanchi Stupa and I does not like Charminar, => H likes Charminar and I likes Sanchi Stupa.

G does not likes Taj Mahal, => J likes Taj Mahal.

Person	Field	Monument
D	Economics	Red Fort
E	Management	Qutub Minar
F	Pharmacy	India Gate
G	Management	Victoria Memorial
H	Economics	Charminar
I	Economics	Sanchi Stupa
J	Pharmacy	Taj Mahal

G likes Victoria Memorial.

=> Ans - (D)

Instructions

Study the following information and answer the given questions.

L is the mother of J. J is the only daughter of R. R is the son of D. D is the wife of K. K is the father of T. T is the wife of Y.

Question 33

If J is the sister of X, then how is X related to Y ?

- A Son
- B Nephew
- C Daughter
- D Niece
- E Daughter-in-law

Answer: B

Explanation:

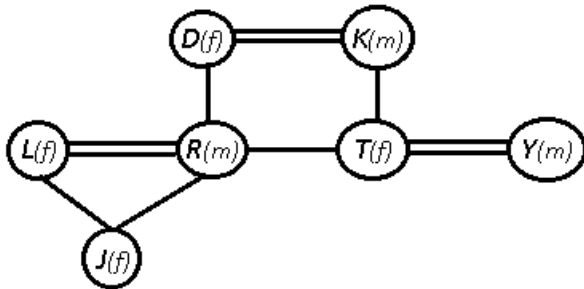
L is the mother of J. J is the only daughter of R.

=> R is the husband of L.

R is the son of D. D is the wife of K. K is the father of T. T is the wife of Y.

=> R is brother of T (female).

'=' represents married couple and '-' represents siblings.



If J is the sister of X, then X is the nephew of Y. Here, X is male as J is the only daughter of R.

=> Ans - (B)

Question 34

How is L related to T ?

- A Niece
- B Sister
- C Daughter-in-law
- D Daughter
- E Sister-in-law

Answer: E

Explanation:

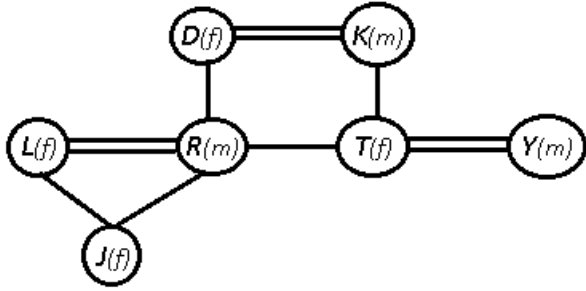
L is the mother of J. J is the only daughter of R.

=> R is the husband of L.

R is the son of D. D is the wife of K. K is the father of T. T is the wife of Y.

=> R is brother of T (female).

'=' represents married couple and '-' represents siblings.



L is the sister-in-law of T.

=> Ans - (E)

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Question 35

How is J related to K ?

- A Daughter
- B Granddaughter
- C Daughter-in-law
- D Grandfather
- E Niece

Answer: B

Explanation:

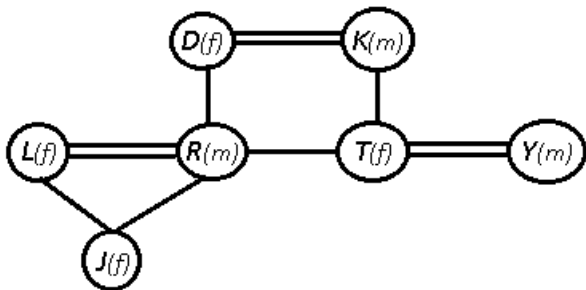
L is the mother of J. J is the only daughter of R.

=> R is the husband of L.

R is the son of D. D is the wife of K. K is the father of T. T is the wife of Y.

=> R is brother of T (female).

'=' represents married couple and '-' represents siblings.



J is granddaughter of K.

=> Ans - (B)

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English

Instructions

For the following questions answer them individually

Question 36

By running liquid chocolate an electric field, researchers were able to make it more easily.

- A across, gushing
- B during, stream
- C through, flow
- D among, move
- E in, tidal

Answer: C

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Question 37

India is a teadrinking country, with coffee to the instant variety, except in the south.

- A essentially, only
- B most, confined
- C simply, limiting
- D predominantly, restricted
- E larger, constrained

Answer: D

Question 38

There is no of capital to finance massive infrastructure development provided the projects involving huge investments are with transparency.

- A dearth, handled
- B deny, managed
- C shortage, completely
- D paucity, direct
- E absent, persuaded

Answer: A

Question 39

Auto makers are likely to use the cash pile to R&D; capabilities as well as new models.

- A restored, launch
- B strengthen, introduce
- C extent, offer

D enhance, advanced

E create, ushers

Answer: B

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Question 40

As per the norms that remain unchanged, firms will have to the sourcing norms from the time of opening of the first store.

A prevailing, adhere

B existing, meet

C recently, accommodate

D current, abide

E actually, fit

Answer: B

Explanation:

EndGroup:

Instructions

Rearrange the given six sentences/group of sentences (A), (B), (C), (D), (E) and (F) in a proper sequence as to form a meaningful paragraph and then answer the given questions.

(A) It is evident from the fact that from shopping, ordering food, booking vacations to money transfers, everything is going digital.

(B) Technology today has seeped into every facet of our lives.

(C) This and a variety of problems now can be solved easily as healthcare providers can adopt technologies to improve, simplify and better manage the quality of their services.

(D) However, in our country we still have a long way to go for overhauling the existing healthcare infrastructure to one that is truly technology driven.

(E) The first step' in this direction would be capturing all patient health information at the point of care, especially hospitals and clinics.

(F) For instance, in medical emergency situations, the lack of readily available patient health information at the point of care still impacts millions of people each year leading to adverse health conditions and even death.

Question 41

Which of the following should be the FIFTH sentence after the rearrangement ?

A E

B D

C A

D F

E C

Answer: E

Question 42

Which of the following should be the SECOND sentence after the rearrangement ?

- A A
- B B
- C F
- D D
- E C

Answer: A

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Question 43

Which of the following should be the SIX (LAST) sentence after the rearrangement ?

- A E
- B D
- C A
- D B
- E F

Answer: A

Question 44

Which of the following should be the FIRST sentence after the rearrangement ?

- A A
- B C
- C B
- D F
- E E

Answer: C

Question 45

Which of the following should be the FOURTH sentence after the rearrangement ?

- A A
- B B
- C C
- D F
- E D

Answer: E

Instructions

Read the following passage carefully and answer the given questions. Certain words/phrases are given in bold to help you locate them while answering some of the questions.

At first glance the patriarchy appears to be thriving. More than 90% of presidents and prime ministers are male, as are all nearly big corporate bosses. Men dominate finance, technology, films, sports, music and even standup comedy. In much of the world they still **enjoy** social and legal privileges simply because they have a Y chromosome. So it might seem odd to worry about the plight of men. Yet there is plenty of cause for concern. Men cluster at the bottom as well as at the top. Poorly educated men in rich countries have had difficulty coping with the enormous changes in the labour market and the home over the past halfcentury. As technology and trade have devalued brawn, lesseducated men have struggled to find a role in the workplace. Women, on the other hand, are **surging** into expanding sectors such as health care and education, helped by their superior skills. As education has become more important, boys have also fallen behind girls in school (except at the very top). Men who lose jobs in manufacturing often never work again. And men without work find it hard to support a family. The result for lowskilled men, is a poisonous combination of no job, no family and no prospects. Some tend to focus on economics. Shrinking job opportunities for men, they say, are **entrenching** poverty and destroying families. In America pay for men with only a highschool certificate fell by 21% in real terms between 1979 and 2013, for women with similar qualifications it raised by 3%. Around a fifth of workingage American men with only a highschool have no job. But both economic and social changes are to blame, and the two causes reinforce each other. Moreover, these problems are likely to get worse. Technology will disrupt more industries, creating benefits for society but rendering workers who fail to update their skills redundant. The OECD, a thinktank, predicts that the absolute number of singleparent households will continue to rise in nearly all rich countries. Boys who grow up without fathers are more likely to have trouble forming lasting relationships, creating a cycle of male dysfunction. What can be done? Part of the solution lies in a change in cultural attitudes. Over the past generation, men have learned that they need to help with child care and have changed their behaviour. Women have learned that they can be surgeons and physicists not at the cost of motherhood. Policymakers also need to lend a hand, because foolish laws are making the problem worse. Governments need to recognise that boys' underachievement is a serious problem and set about fixing it. Some sensible policies that are good for everybody are particularly good for boys. Earlychildhood education provides boys with more **structure** and a better chance of developing verbal and social skills. Countries with successful vocational systems such as Germany have done a better job motivating nonacademic boys and guiding them into jobs, but policymakers need to reinvent vocational education for an age when trainers are more likely to get jobs in hospitals than factories. The growing equality of the genders is one of the biggest achievements of the postwar era people have greater opportunities than ever before to achieve their ambitions regardless of their gender. But some even have failed to cope with this new world. It is time to give them a hand.

Question 46

What do the statistics in the passage with regard to America indicate?

- A Pay and employment for men with low skills has fallen.
- B Less than ten percent of American politicians are women.
- C Men dominate most high paying professions such as surgery etc.
- D Americans are protected from labour market disruptions by a strong social welfare system.
- E At both the top and bottom of the job pyramid women are losing out to men.

Answer: A

Question 47

According to the passage, what can be said about families today?

- A It is difficult for families to survive on the earnings of one parent.
- B The size of the family is shrinking which will cause a problem of an ageing population soon.
- C Parents favour sons over daughters causing an unhealthy social mindset.
- D Poverty and lack of education among men is putting the family structure at risk.
- E None of the given options can be said.

Answer: D

Question 48

Choose the word/group of words which is most nearly the same in meaning as the word **ENJOY** given in bold as used in the passage.

- A benefit from
- B laugh with
- C amused by
- D prefer to
- E liking for

Answer: D

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Question 49

Choose the word/group of words which is opposite in meaning as the word **ENTRENCHING** given in bold as usain the passage.

- A hastening
- B reducing
- C stabilising
- D hesitating
- E digging

Answer: B

Question 50

Which of the following best describes the author's opinion about vocational education?

- A Germany's model of vocational guidance need not be adopted by other countries.
- B There should be less focus on vocational skills.
- C Vocational education should equip men with better skills than they do at present.
- D Vocational education for women should be given more financial support.
- E Rather than obtaining an unaffordable university education, vocational education is a practical

Answer: C

Question 51

Choose the word/group of words which is most nearly the same in meaning as the word **STRUCTURE** given in bold as used in the passage.

- A building
- B order
- C assembly

- D layout
- E procedure

Answer: C

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Question 52

Which of the following is true in the context of the passage ?

- A Underachievement of boys at school is a problem prevalent in Japan and America.
- B Most of the government funds for vocational education are misused.
- C Women are still not well represented in high positions.
- D The number of children with learning disabilities is on the rise in rich countries.
- E None of the given statements is true in the context of the passage.

Answer: C

Question 53

Which of the following is an appropriate title for the passage?

- A Flying Too High '
- B Beyond Face Value: Men at Risk
- C The Fundamentals of Achievement
- D Poverty Misleading Figures

Men at Risk

- E c: The Fundamentals of Achievement
- d: Poverty Misleading Figures
- e: Health, Wealth and the Origins of Inequality

Answer: B

Question 54

Which of the following factors has/have an impact on the current state of male employment ?

- (A) Men's failure to update their skills.
- (B) Single parent households with an absent father.
- (C) Adoption of technological changes in low skill jobs.

- A Only (A)
- B Only (B)
- C All (A), (B) and (C)
- D (A) and (C)
- E (A) and (B)

Answer: D

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Question 55

Choose the word/group of words which is opposite in meaning as the word **SURGING** given in bold as used in the passage.

- A flowing
- B delaying
- C precipitating
- D hollowing
- E disappearing

Answer: E

Instructions

Read the following sentences to find out whether there is any grammatical error in them. The error, if any, will be in one part with the error as your answer. If there is no error, mark 'No error' as your answer. (Ignore the errors of conjunctions, if any)

Question 56

The infection is commonly found (a) in pork eaters and is (b) also a result on unhygienic practices (c) like not cleaning vegetables properly. (d) No error (e)

- A The infection is commonly found
- B in pork eaters and is
- C also a result on unhygienic practices
- D like not cleaning vegetables properly
- E No error

Answer: C

Question 57

One of the greatest (a) surrealists of his time, (b) Ali was the ultimate conquistador (c) in an art he alone perfected. (d) No error (e)

- A One of the greatest
- B surrealists of his time
- C Ali was the ultimate conquistador
- D in an art he alone perfected
- E No error

Answer: A

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Question 58

In the (a) plush property a (b) seat in power (c) or a political ill omen ? (d) No error (e)

- A In the
- B plush property a
- C seat in power
- D or a political ill omen
- E No error

Answer: A

Question 59

A gang war inside (a) the high security jail resulted (b) in four under trials (c) being rushed for the hospital. (d) No error (e)

- A A gang war inside
- B the high security jail resulted
- C in four under trials
- D being rushed for the hospital
- E No error

Answer: D

Question 60

The museum suffer (a) severe damaged after (b) fire hydrants were (c) rendered useless. (d) No error (e)

- A The museum suffer
- B severe damaged after
- C fire hydrants were
- D rendered useless
- E No error

Answer: B

SBI Clerk Free Mock Test (Latest Pattern)

Instructions

In the following passage, there are blanks, each of which has been numbered. Against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case. Technology has changed society. There is no ...(1)... that we live in a world of instant gratification which is driven by the latest advancement in technology and devices. With the Internet, social networks and cell phones the way people communicate has changed ...(2)... We would ...(3)... email than men, and instead of talking on the phone we would prefer to text. ...(4)... technology has advanced the access of information and communication; our society has grown more ...(5)... by communicating using technologies, therefore our culture is losing the ability to socialise face to face.

Question 61

(1)

- A doubts
- B denying

- C way
- D questions
- E alarm

Answer: A

Question 62

(2)

- A drastically
- B whole
- C positively
- D cursorily
- E haltingly

Answer: A

Question 63

(3)

- A prefer
- B besides
- C despite
- D instead
- E rather

Answer: A

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Question 64

(4)

- A But
- B Then
- C However
- D Although
- E When

Answer: D

Question 65

(5)

- A impersonal
- B contacts
- C engaging
- D knitted
- E Warm

Answer: A

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Quant

Instructions

Study the following table carefully and answer the questions.

Coaching Institutes	Total no of students who have for the coaching institute	% of students who have enrolled for the given coaching institute from different schools			
		P	Q	R	S
W	90	10	30	40	20
X	250	20	20	30	30
Y	300	36	24	25	15
Z	200	28	32	24	16

Question 66

What is the respective ratio between the total number of students who have enrolled for coaching institutes X and Y together from school R and the total number of students who have enrolled for the same coaching institutes together from school S ?

- A 5 : 2
- B 5 : 4
- C 15 : 4
- D 25 : 8
- E 15 : 8

Answer: B

Explanation:

Number of students in Institute X =250
 Number of students in Institute X from School R = 30% of 250 = 75
 Number of students in Institute Y =300
 Number of students in Institute Y from School R = 25% of 300= 75
 Number of students in Institute X =250
 Total number of students from school R in Institutes X and Y = 150
 Number of students in Institute X from School S = 30% of 250 = 75
 Number of students in Institute Y =300
 Number of students in Institute Y from School S = 15% of 300= 45
 Total number of students from school S in Institutes X and Y = 120
 Ratio = 150/120 = 5/4
 Option B is the correct answer.

Question 67

In coaching institute W, 40% are females. If of the total females 9 are from school R, what is the number of male students from school R who have enrolled for coaching institute W ?

- A 18
- B 27
- C 36
- D 45
- E 54

Answer: B

Explanation:

Number of females in Institute W = 36 (40 % of 90)

Number of males in Institute W = 54

Number of students from school R enrolled in Institute W = 36 (40 % of 90)

Number of females in Institute W from School R = 9.

Number of males in Institute W from School R = 27.

Therefore, option B is the right answer.

Question 68

What is the difference between the total number of students who have enrolled for coaching institute W from schools P and S together and the total number of students who have enrolled for coaching institute Y from the same schools together ?

- A 127
- B 126
- C 136
- D 116
- E 130

Answer: B

Explanation:

Number of students in Institute W = 90

Percentage of students in Institute W from School P and S = 10% of 90 + 20% of 90 = 27

Number of students in Institute Y = 300

Percentage of students in Institute Y from School P and S = 36% of 300 + 15% of 300 = 108 + 45 = 153

Difference = 153-27 = 126

Option B is the correct answer.

Question 69

What is the average number of students who have enrolled in coaching institutes X, Y and Z from school Q ?

- A 63
- B 65
- C 62
- D 64

E 61

Answer: C

Explanation:

Number of students in Institute X = 250

Percentage of students in Institute X from School Q = 20% of 250 = 50

Number of students in Institute Y = 300

Percentage of students in Institute Y from School Q = 24% of 300 = 72

Number of students in Institute Z = 200

Percentage of students in Institute Z from School Q = 32% of 200 = 64

Average number of students in Institutes X, Y and Z from School Q = $(50+72+64) / 3$
= 186/3

=62

Option C is the correct answer.

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Question 70

In coaching institute Z, the total number of students who have enrolled from schools R and S together is what percent less than the total number of students enrolled from schools P and Q together ?

A $31\frac{1}{5}$

B $32\frac{1}{5}$

C $33\frac{1}{3}$

D $35\frac{1}{3}$

E $34\frac{1}{6}$

Answer: C

Explanation:

EndGroup:

Instructions

For the following questions answer them individually

Question 71

The respective ratio of radii of two right circular cylinders (A and B) is 4 : 5. The respective ratio of volume of cylinders A and B is 12 : 25. What is the respective ratio of the heights of cylinders A and B ?

A 2 : 3

B 3 : 5

C 5 : 8

D 4 : 5

E 3 : 4

Answer: E

Explanation:

Volume of a cylinder = $\pi r^2 h$

where r and h are the radius and height of the cylinder respectively.

The ratio of volumes and ratio of radii of the two cylinders is given.

Ratio of square of their radii = 16 : 25

Therefore the ratio of their heights $h_1 : h_2 = 12 \times 25 : 16 \times 25$

where h_1 and h_2 are the heights of two cylinders.

the ratio of their heights = 12 : 16 = 3 : 4

Option E is the correct answer

Question 72

Dhruva gave 35% of her monthly salary to her mother. From the remaining salary, she paid 18% towards rent and 42% she kept aside for her monthly expenses. The remaining amount she kept in bank account. The sum of the amount she kept in bank and that she gave to her mother was Rs.43,920/. What was her monthly salary ?

A Rs.80,000

B Rs.75,000

C Rs.64,000

D Rs.76,000

E Rs.72,000

Answer: E

Explanation:

Dhruva gave 35% of her monthly salary to her mother. Remaining is 65%

18% of 65% was given for rent and 42% of 65% was kept for monthly expenses.

Remaining 40% of 65% was put in Bank account.

35% of his monthly salary and 40% of remaining 65% of his monthly salary = 43290

Let his monthly salary be Rs.X

35% of X + 40% of 65% of X = 43290

$0.35 X + 0.26 X = 43290$

$0.61 X = 43290$

$X = 43290 / 0.61 \approx 71000$

Option E is the nearest answer.

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Question 73

18 litres of pure water was added to a vessel containing 80 litres of pure milk. 49 litres of the resultant mixture was then sold and some more quantity of pure milk and pure water was added to the vessel in the respective ratio of 2 : 1. If the resultant respective ratio of milk and water in the vessel was 4 : 1, what was the quantity of pure milk added in the vessel ? (in litres)

A 4

B 8

C 10

D 12

E 2

Answer: A

Explanation:

18 litres of pure water was added to a vessel containing 80 litres of pure milk.

Total mixture = 80 + 18 = 98 litres

Now, 49 litres i.e., $\frac{1}{2}$ is removed, \Rightarrow Milk left = $\frac{80}{2} = 40$ litres

Water left = $\frac{18}{2} = 9$ litres

Let milk added be $2x$ litres and water added is x litres

$\Rightarrow \frac{40+2x}{9+x} = \frac{4}{1}$

$\Rightarrow 40 + 2x = 36 + 4x$

$\Rightarrow 2x = 40 - 36 = 4$

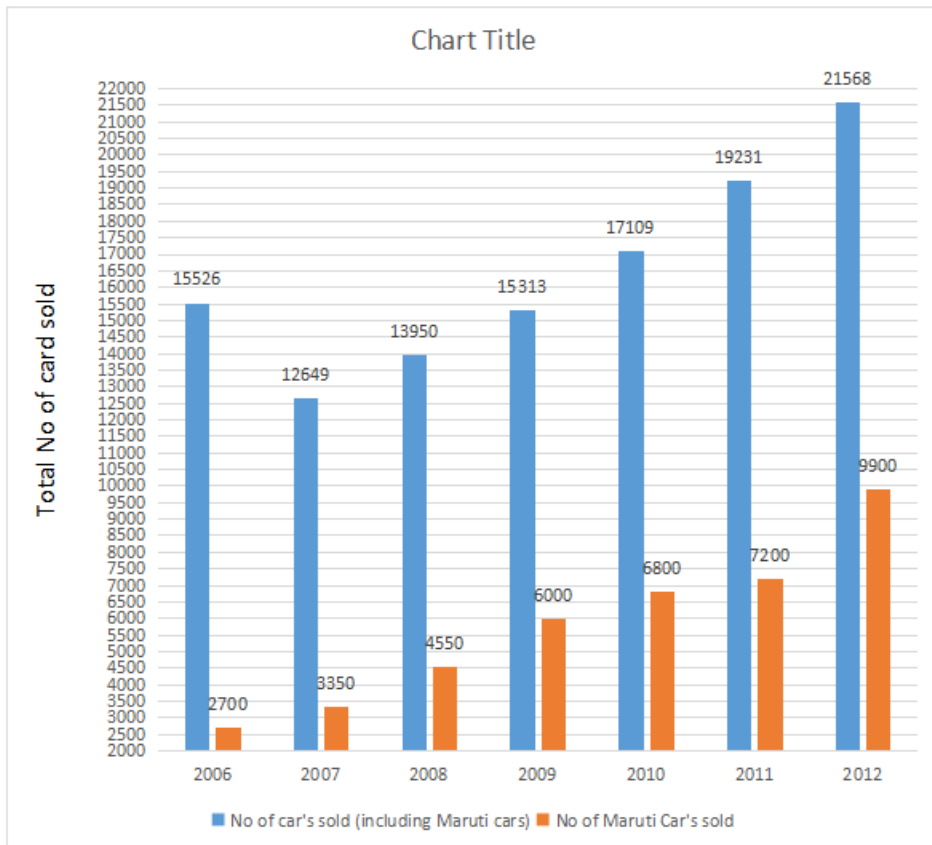
$\Rightarrow x = \frac{4}{2} = 2$

\therefore Quantity of milk added = $2 \times 2 = 4$ litres

Instructions

Study the following bar graph carefully to answer the questions.

Data regarding number of cars sold during 7 years



Question 74

What is the total (approximate) number of cars sold in the year 2013, if the growth rate in the total number of car sold from 2012 to 2013 was same as that of 2011 to 2012 ?

- A 23096
- B 210978
- C 24189
- D 26623
- E 24659

Answer: C

Explanation:

Growth Rate from 2011 to 2012 = $(21568 - 19231) / 19231 \approx 0.12 = 12\%$

Total cars sold in 2013 = 21568×1.12 (Because of 12% growth)

≈ 24156

The nearest value is 24189.

Option C is the correct answer.

Question 75

In which of the following years the ratio of number of Maruti cars sold to the total number of cars sold was lowest ?

- A 2011
- B 2006
- C 2009
- D 2008
- E 2010

Answer: B

Explanation:

Ratio for 2006 = $2700/15526=0.17$

Ratio for 2008 = $4550/13950=0.32$

Ratio for 2009 = $6000/15313=0.39$

Ratio for 2010 = $6800/17109=0.39$

Ratio for 2011 = $7200/19231=0.37$

Ratio for 2006 is the least.

Option B is the correct answer.

For this problem, you can round off the values to the nearest multiple of 100 and calculate the ratio.

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Question 76

What was the approximate average number of cars sold (other than Maruti Cars) in a year, taking the data of all the years together ?

- A 11231
- B 10317
- C 10919
- D 10121
- E 12117

Answer: D

Explanation:

average number of cars sold (other than Maruti Cars) in a year = $(\text{Total number of cars sold} - \text{Total Number of Maruthi cars sold}) / 7$

Total number of cars sold = $15526+12649+13950+15313+17109+19231+21568 = 1,15,346$

Total Number of Maruthi cars sold = $2700+3350+4550+6000+6800+7200+9900 = 40,500$

Average = $(1,15,346 - 40,500) / 7 \approx 10690$

Question 77

The number of Maruti cars sold in the year 2007, 2008 and 2009 is approximately what percentage of total number of all the cars sold in the year 2006, 2007, 2009, 2011 and 2012 ?

- A 22%

- B 25%
- C 17%
- D 29%
- E 11%

Answer: C

Explanation:

The number of Maruti cars sold in the year 2007, 2008 and 2009 = $3350+4550+6000 = 13900$

Total number of all the cars sold in the year 2006, 2007, 2009, 2011 and 2012 = $15526+12649+15313+19231+21568 = 84287$

$13900/84287 \approx 0.17$

Option C is the correct answer.

Question 78

What is the ratio between the numbers of cars sold other than that of Maruti in 2011 to the number of cars sold in 2006 ?

- A 1.26
- B 1.17
- C 1.04
- D 1.23
- E 1.62

Answer: C

Explanation:

Numbers of cars sold other than that of Maruti in 2011 = $19231 - 7200 = 12031$

Number of cars sold in 2006 = $15526 = 15526$

Ratio = $15526/12031 \approx 1.29$

Option C is the correct answer

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Instructions

For the following questions answer them individually

Question 79

There are two motor cycles' (A and B) of equal cost price. Motorcycle A was sold at a profit of 14% and motorcycle B was sold for Rs.4,290/ more than its cost price. The net profit earned after selling both the motor cycles (A and B) is 20%. What is the cost price of each motorcycle ?

- A Rs. 16,500/
- B Rs. 16,000/
- C Rs. 15,500/
- D Rs. 17,500/
- E Rs. 17,000/

Answer: A

Explanation:

Cost price of both A and B be X.

SP of A = 1.14 CP of A

SP of B = CP of B + 4290

Net profit after selling both bikes is 20%

$1.2(X+X) = \text{SP of A} + \text{SP of B}$

$1.2(X+X) = 1.14 \text{ CP of A} + \text{CP of B} + 4290 = 1.14X + X + 4290$

$2.4X = 2.14X + 4290$

$0.26X = 4290$

$X = 16,500$

Option A is the correct answer.

Question 80

A bag contains 3 white balls and 2 black balls. Another bag contains 2 white and 4 black balls. A bag and a ball are picked at random. What is the probability that the ball drawn is white ?

A $\frac{7}{11}$

B $\frac{7}{30}$

C $\frac{5}{11}$

D $\frac{7}{15}$

E $\frac{8}{15}$

Answer: D

Explanation:

Probability of choosing bag 1 = $(1/2)$

Probability of choosing bag 2 = $(1/2)$

Probability of choosing white ball from bag 1 = $3/5$

Probability of choosing white ball from bag 2 = $2/6$

Probability of choosing bag 1 and white ball from it = $(1/2)(3/5) = 3/10$

Probability of choosing bag 2 and white ball from it = $(1/2)(2/6) = 2/12$

Probability of choosing a bag and drawing a white ball = $(3/10) + (2/12) = (28/60) = (7/15)$

Option D is the correct answer.

Instructions

What should come in place of question mark (?) in the given number series ?

Question 81

16, 17, 21, 30, 46, ?

A 82

B 104

C 71

D 92

E 84

Answer: C

Explanation:

The difference of difference of each consecutive terms are consecutive odd numbers.

17-16=1

21-17=4

30-21=9 and so on.

Difference of difference is

9-4=5

4-1=3 and so on.

Hence the next difference must be 9.

The difference between next number in the series and 46 must 9 more than 16 which is 25.

Hence the missing number is 71.

Hence Option C is the correct answer.

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Question 82

2, 2, 4, 12, 48, ?

A 180

B 220

C 240

D 160

E 210

Answer: C

Explanation:

If N is the number which denotes the position of a number in the series, each term of the series can be given by

$$N \text{ th term} = (N-1)\text{th term} \times (N-1)$$

For the first term n=1

For the second term n=2

N-1 th term is 2. Hence Nth term is $2 \times 1 = 2$

For the third term n=3

N-1 th term is 2. Hence Nth term is $2 \times 2 = 4$

Similarly for the 6th term N=6

N-1 th term is 48. Hence Nth term is $48 \times 5 = 240$

Option C is the correct answer.

Question 83

10, 14, 23, 37, 56, ?

A 74

B 80

C 118

D 120

E 94

Answer: B

Explanation:

The difference between each consecutive term increases by 5.

$$14-10 = 4$$

$$23-14 = 9$$

37-23=14 and so on.

The difference between the last two terms 56 and 37 is 19.
The difference between the missing term and 56 must be 24.
The missing term is 80.
Option B is the correct answer.

Question 84

4, 7, 13, 25, 49

- A 118
- B 136
- C 86
- D 97
- E 124

Answer: D

Explanation:

Each term is 1 less than twice the previous term.

$$7 = 4 \times 2 - 1$$

$13 = 7 \times 2 - 1$ and so on.

The missing term must be 1 less than twice 49 which is 97.

Option D is the correct answer.

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Question 85

50, 59, 41, 68, 32, ?

- A 77
- B 45
- C 20
- D 85
- E 60

Answer: A

Explanation:

The pattern is :

$$50 + 9 = 59$$

$$59 - 18 = 41$$

$$41 + 27 = 68$$

$$68 - 36 = 32$$

$$32 + 45 = 77$$

Instructions

For the following questions answer them individually

Question 86

A is thrice as efficient as B and takes 10 days less to do a piece of work than B takes to do the same work. In how many days, B alone can finish the whole work ?

- A 15 days
- B 10 days
- C 9 days
- D 8 days
- E 7 days

Answer: A

Explanation:

Let total work be 1 unit

Let efficiency of A = $3x$ units/day

=> efficiency of B = x units/day

Acc to ques :

$$\Rightarrow \frac{1}{x} - \frac{1}{3x} = 10$$

$$\Rightarrow \frac{2}{3x} = 10$$

$$\Rightarrow x = \frac{1}{15}$$

∴ Time taken by B = 15 days

(Shortcut)

Since, A takes 10 days less than B, => B definitely takes more than 10 days

=> Options (B), (C) & (D) are eliminated.

Question 87

The compound interest on a certain sum for 2 years at 10% per annum is Rs.525/. The simple interest on the same sum for double the time at half the rate percent per annum is.....

- A Rs. 400/
- B Rs. 500/
- C Rs. 600/
- D Rs. 800/
- E Rs. 700/

Answer: B

Explanation:

Let the sum be Rs. x

$$\Rightarrow \text{C.I.} = x \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right] = 525$$

$$= x \left(\frac{121}{100} - 1 \right) = 525$$

$$= x = \frac{525 \times 100}{21} = 2500$$

Now, simple interest at 5% for 4 years

$$= \frac{2500 \times 5 \times 4}{100}$$

= Rs. 500

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Instructions

What approximate value will come in place of question mark (?) in the given question ? (You are not expected to calculate the exact value.)

Question 88

$$26.003 - \frac{154.001}{6.995} = ?$$

- A 4
- B 18
- C 9
- D 10
- E 14

Answer: A

Explanation:

$$\text{Expression : } 26.003 - \frac{154.001}{6.995} = ?$$

$$= 26 - \frac{154}{7}$$

$$= 26 - 22 = 4$$

Question 89

$$\frac{17.995}{3.01} + \frac{104.001}{12.999} = ?$$

- A 11
- B 20
- C 23
- D 14
- E 17

Answer: D

Explanation:

$$\text{Expression : } \frac{17.995}{3.01} + \frac{104.001}{12.999} = ?$$

$$= \frac{18}{3} + \frac{104}{13}$$

$$= 6 + 8 = 14$$

Question 90

$$\frac{3}{5} \text{ of } \frac{4}{7} \text{ of } \frac{7}{9} \text{ of } 425 = ?$$

- A 121

- B 110
- C 118
- D 113
- E 124

Answer: D

Explanation:

$$\text{Expression: } 5^{\frac{3}{5}} \text{ of } 7^{\frac{4}{7}} \text{ of } 9^{\frac{7}{9}} \text{ of } 425 = ?$$

$$= \frac{3 \times 4 \times 7}{5 \times 7 \times 9} \times 425$$

$$= \frac{4}{15} * 425$$

$$= \frac{1700}{15} = 113$$

Question 91

$$124.001 \times 14.001 \div 3.4999 + 2^2 = ?$$

- A 500
- B 450
- C 425
- D 475
- E 550

Answer: A

Explanation:

$$\text{Expression: } 124.001 \times 14.001 \div 3.4999 + 2^2 = ?$$

$$= 124 \times \frac{14}{3.5} + 2^2$$

$$= 124 \times 4 + 2^2$$

$$= 500$$

Question 92

$$18.0009 \div (369 + ?) = 2040.05$$

- A 302
- B 298
- C 322
- D 319
- E 311

Answer: E

Instructions

For the following questions answer them individually

Question 93

A, B and C started a business by investing Rs.8,400/, Rs.15,600/ and Rs.13,200/ respectively. All of them invested for equal period of time. If A's share of annual profit was Rs.1,960/, what was the difference B's share of annual profit and C's share of annual profit ?

- A Rs. 560/
- B Rs. 520/
- C Rs. 540/
- D Rs. 480/
- E Rs. 600/

Answer: A

Explanation:

Investment by A, B & C = 8400, 15600, 13200

=> A : B : C = 7 : 13 : 11

Let total profit be x

$$\Rightarrow \text{A's share} = \frac{7}{31} * x = 1960$$

$$\Rightarrow x = \frac{1960 * 31}{7} = 8680$$

$$\therefore \text{Difference between B's and C's share of profit} = \frac{2}{31} * 8680$$

= Rs. 560

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Question 94

Two pipes A and B can separately fill a cistern in 60 min and 75 min respectively.. There is a third pipe in the bottom of the cistern to empty it. If all the three pipes are simultaneously opened, then the cistern is full in 50 min In how much time the third pipe alone can empty the cistern ?

- A 110 min
- B 100 min
- C 120 min
- D 90 min
- E 130 min

Answer: B

Explanation:

Let the volume of the cistern be 300 units

$$\text{Rate at which A fills the cistern} = \frac{300}{60} = 5 \text{ units/min}$$

$$\text{Rate at which B fills the cistern} = \frac{300}{75} = 4 \text{ units/min}$$

Let rate at which third pipe empties it = x units/min

Acc to ques :

$$\Rightarrow (5 + 4 - x) * 50 = 300$$

$$\Rightarrow 9 - x = 6$$

$$\Rightarrow x = 3$$

∴ Time taken by third pipe alone to empty the tank = $\frac{300}{3} = 100$ min

Instructions

In these questions, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer.

Give answer :

a: If $x < y$

b: If $x > y$

c: If $x \leq y$

d: If $x \geq y$

e: If relationship between x and y cannot be determined ,

Question 95

I. $15x^2 + 26x + 8 = 0$

II. $25y^2 + 15y + 2 = 0$

A If $x < y$

B If $x > y$

C If $x \leq y$

D If $x \geq y$

E If relationship between x and y cannot be determined

Answer: C

Explanation:

I. $15x^2 + 26x + 8 = 0$

$$\Rightarrow 15x^2 + 6x + 20x + 8 = 0$$

$$\Rightarrow (3x + 4)(5x + 2) = 0$$

$$\Rightarrow x = \frac{-4}{3}, \frac{-2}{5}$$

II. $25y^2 + 15y + 2 = 0$

$$\Rightarrow 25y^2 + 5y + 10y + 2 = 0$$

$$\Rightarrow (5y + 2)(5y + 1) = 0$$

$$\Rightarrow y = \frac{-2}{5}, \frac{-1}{5}$$

∴ $x \leq y$

Question 96

I. $6x^2 - 19x + 15 = 0$

II. $5y^2 - 22y + 24 = 0$

A If $x < y$

B If $x > y$

C If $x \leq y$

D If $x \geq y$

E If relationship between x and y cannot be determined

Answer: A

Explanation:

I. $6x^2 - 19x + 15 = 0$

$\Rightarrow 6x^2 - 9x - 10x + 15 = 0$

$\Rightarrow (3x - 5)(2x - 3) = 0$

$\Rightarrow x = \frac{5}{3}, \frac{3}{2}$

II. $5y^2 - 22y + 24 = 0$

$\Rightarrow 5y^2 - 10y - 12y + 24 = 0$

$\Rightarrow (5y - 12)(y + 2) = 0$

$\Rightarrow y = \frac{12}{5}, 2$

$\therefore y > x$

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Question 97

I. $4x^2 - 12x + 5 = 0$

II. $4y^2 - 8y + 3 = 0$

A If $x < y$

B If $x > y$

C If $x \leq y$

D If $x \geq y$

E If relationship between x and y cannot be determined

Answer: D

Explanation:

I. $4x^2 - 12x + 5 = 0$

$\Rightarrow 4x^2 - 2x - 10x + 5 = 0$

$\Rightarrow (2x - 5)(2x - 1) = 0$

$\Rightarrow x = \frac{5}{2}, \frac{1}{2}$

II. $4y^2 - 8y + 3 = 0$

$\Rightarrow 4y^2 - 2y - 6y + 3 = 0$

$\Rightarrow (2y - 3)(2y - 1) = 0$

$\Rightarrow y = \frac{3}{2}, \frac{1}{2}$

\therefore clearly we can see that x is greater than or equals to y

Question 98

I. $10x^2 + 21x + 8 = 0$

II. $5y^2 + 19y + 18 = 0$

A If $x < y$

- B If $x > y$
- C If $x \leq y$
- D If $x \geq y$
- E If relationship between x and y cannot be determined

Answer: B

Explanation:

I. $10x^2 + 21x + 8 = 0$

$\Rightarrow 10x^2 + 5x + 16x + 8 = 0$

$\Rightarrow (5x + 8)(2x + 1) = 0$

$\Rightarrow x = \frac{-8}{5}, \frac{-1}{2}$

II. $5y^2 + 19y + 18 = 0$

$\Rightarrow 5y^2 + 10y + 9y + 18 = 0$

$\Rightarrow (5y + 9)(y + 2) = 0$

$\Rightarrow y = \frac{-9}{5}, -2$

$\therefore x > y$

Question 99

I. $6x^2 - 5x + 1 = 0$

II. $12y^2 - 23y + 10 = 0$

- A If $x < y$
- B If $x > y$
- C If $x \leq y$
- D If $x \geq y$
- E If relationship between x and y cannot be determined

Answer: A

Explanation:

I. $6x^2 - 5x + 1 = 0$

$\Rightarrow 6x^2 - 2x - 3x + 1 = 0$

$\Rightarrow 2x(3x - 1) - 1(3x - 1) = 0$

$\Rightarrow (2x - 1)(3x - 1) = 0$

$\Rightarrow x = \frac{1}{2}, \frac{1}{3}$

II. $12y^2 - 23y + 10 = 0$

$\Rightarrow 12y^2 - 8y - 15y + 10 = 0$

$\Rightarrow 4y(3y - 2) - 3(3y - 2) = 0$

$\Rightarrow (4y - 3)(3y - 2) = 0$

$\Rightarrow y = \frac{3}{4}, \frac{2}{3}$

$\therefore y > x$

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Instructions

For the following questions answer them individually

Question 100

The sum of the ages of a father and a son is 45 years. Five years ago, the product of their ages was four times the father's age at that time. What are the present ages of father and son ?

- A 34, 11
- B 35, 10
- C 36, 9
- D 40, 5
- E 42, 12

Answer: C

Explanation:

The sum of the ages of a father and a son is 45 years,

$$F + S = 45 \text{ years.}$$

Five years ago, the product of their ages was four times the father's age at that time

$$(F - 5)(S - 5) = 4(F - 5)$$

By solving the above equations we get,

$$S = 9, 40.$$

If $S = 40$ then F will be 5 which is not possible. Hence, $S = 9$ and $F = 36$.

Hence, option c is the correct answer.

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