Section : Analytical & Logical Reasoning

DIRECTIONS *for the question:* Given an input line ; the machine arranges the words and numbers in steps in a systematic manner as illustrated afterwards : Study the pattern and answer the question that follows.

Question No. : 1

Input: Krishna 32 Book 39 Ice 91 Invite 47 63 Mango 25 GO
Step I: 92 Go Krishna 32 Book 39 Ice Invite 47 63 Mango 25
Step II: 64 Ice 92 Go Krishna 32 Book 39 Invite 47 Mango 25
Step III: 48 Book 64 Ice 92 Go Krishna 32 39 Invite Mango 25
Step IV: 40 Mango 48 Book 64 Ice 92 Go Krishna 32 Invite 25
Step V: 33 Invite 40 Mango 48 Book 64 Ice 92 Go Krishna 25
Step VI:26 Krishna 33 Invite 40 Mango 48 Book 64 Ice 92 Go

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91

If "60 Apple 77 Good 92 Mid 39 56 Orange 35 Beautiful Naughty" is step 3 then how many more steps are required to reach on final output?

A) 5 steps more   B) 6 steps more   C) 4 steps more   ✔D) 3 steps more   E) None of these

Explanation:- *Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step.*
For words arrangement- Words are arranged according to the number of alphabets in a word. Words are arranged from left end in the increasing order of number of alphabets in a word.
(b) For numbers arrangement- The numbers are arranged from left end in decreasing order the number is change by succeeding number.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91
Step I: 92 Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty
Step II: 77 Good 92 Mid 39 Apple 56 59 Orange 35 Beautiful Naughty
Step III: 60 Apple 77 Good 92 Mid 39 56 Orange 35 Beautiful Naughty
Step IV: 57 Orange 60 Apple 77 Good 92 Mid 39 35 Beautiful Naughty
Step V: 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid 35 Beautiful
Step VI: 36 Beautiful 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid

Question No. : 2

Input: Krishna 32 Book 39 Ice 91 Invite 47 63 Mango 25 GO
Step I: 92 Go Krishna 32 Book 39 Ice Invite 47 63 Mango 25
Step II: 64 Ice 92 Go Krishna 32 Book 39 Invite 47 Mango 25
Step III: 48 Book 64 Ice 92 Go Krishna 32 39 Invite Mango 25
Step IV: 40 Mango 48 Book 64 Ice 92 Go Krishna 32 Invite 25
Step V: 33 Invite 40 Mango 48 Book 64 Ice 92 Go Krishna 25
Step VI:26 Krishna 33 Invite 40 Mango 48 Book 64 Ice 92 Go

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91

Which step of the following step "40 Naughty 57 Orange 60 Apple 77 Good 92 Mid 35 Beautiful".

A) Step III   B) Step IV   ✔C) Step V   D) This step is not possible   E) None of these

Explanation:- *Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step.*
For words arrangement- Words are arranged according to the number of alphabets in a word. Words are arranged from left end in the increasing order of number of alphabets in a word.
(b) For numbers arrangement- The numbers are arranged from left end in decreasing order the number is change by succeeding number.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91
Step I: 92 Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty
Step II: 77 Good 92 Mid 39 Apple 56 59 Orange 35 Beautiful Naughty
Step III: 60 Apple 77 Good 92 Mid 39 56 Orange 35 Beautiful Naughty
Step IV: 57 Orange 60 Apple 77 Good 92 Mid 39 35 Beautiful Naughty
Step V: 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid 35 Beautiful
Step VI: 36 Beautiful 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid

Question No. : 3

Input: Krishna 32 Book 39 Ice 91 Invite 47 63 Mango 25 GO
Step I: 92 Go Krishna 32 Book 39 Ice Invite 47 63 Mango 25
Step II: 64 Ice 92 Go Krishna 32 Book 39 Invite 47 Mango 25
Step III: 48 Book 64 Ice 92 Go Krishna 32 39 Invite Mango 25
Step IV: 40 Mango 48 Book 64 Ice 92 Go Krishna 32 Invite 25
Step V: 33 Invite 40 Mango 48 Book 64 Ice 92 Go Krishna 25
Step VI:26 Krishna 33 Invite 40 Mango 48 Book 64 Ice 92 Go

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91

If "77 Good 92 Mid 39 Apple 56 67 Orange 35 Beautiful Naughty" is the step 2 of an input. Find out the step I from this step.

A) 92 Mid39 Apple 56 Good 67 Orange 35 Beautiful 76 Naughty
B) 92 Mid39 Apple 56 Beautiful 76 Naughty Good 67 Orange 35
C) 92 Mid 67 Orange 35 Beautiful 76 Naughty 39 Apple 56 Good ✓D) Can't be determined E) None of these

Explanation:- *Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step.*
For words arrangement- Words are arranged according to the number of alphabets in a word. Words are arranged from left end in the increasing order of number of alphabets in a word.
(b) For numbers arrangement- The numbers are arranged from left end in decreasing order the number is change by succeeding number.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91
Step I: 92 Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty
Step II: 77 Good 92 Mid 39 Apple 56 59 Orange 35 Beautiful Naughty
Step III: 60 Apple 77 Good 92 Mid 39 56 Orange 35 Beautiful Naughty
Step IV: 57 Orange 60 Apple 77 Good 92 Mid 39 35 Beautiful Naughty
Step V: 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid 35 Beautiful
Step VI: 36 Beautiful 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid

Question No. : 4

Input: Krishna 32 Book 39 Ice 91 Invite 47 63 Mango 25 GO
Step I: 92 Go Krishna 32 Book 39 Ice Invite 47 63 Mango 25
Step II: 64 Ice 92 Go Krishna 32 Book 39 Invite 47 Mango 25
Step III: 48 Book 64 Ice 92 Go Krishna 32 39 Invite Mango 25
Step IV: 40 Mango 48 Book 64 Ice 92 Go Krishna 32 Invite 25
Step V: 33 Invite 40 Mango 48 Book 64 Ice 92 Go Krishna 25
Step VI:26 Krishna 33 Invite 40 Mango 48 Book 64 Ice 92 Go

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91

Which word/ number would be at the seventh position from the left end in the final step?

A) 57 B) Apple ✓C) 60 D) Orange E) None of these

Explanation:- *Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step.*

For words arrangement- Words are arranged according to the number of alphabets in a word. Words are arranged from left end in the increasing order of number of alphabets in a word.
(b) For numbers arrangement- The numbers are arranged from left end in decreasing order the number is change by succeeding number.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91
Step I: 92 Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty
Step II: 77 Good 92 Mid 39 Apple 56 59 Orange 35 Beautiful Naughty
Step III: 60 Apple 77 Good 92 Mid 39 56 Orange 35 Beautiful Naughty
Step IV: 57 Orange 60 Apple 77 Good 92 Mid 39 35 Beautiful Naughty
Step V: 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid 35 Beautiful
Step VI: 36 Beautiful 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid

Question No. : 5

Input: Krishna 32 Book 39 Ice 91 Invite 47 63 Mango 25 GO
Step I: 92 Go Krishna 32 Book 39 Ice Invite 47 63 Mango 25
Step II: 64 Ice 92 Go Krishna 32 Book 39 Invite 47 Mango 25
Step III: 48 Book 64 Ice 92 Go Krishna 32 39 Invite Mango 25
Step IV: 40 Mango 48 Book 64 Ice 92 Go Krishna 32 Invite 25
Step V: 33 Invite 40 Mango 48 Book 64 Ice 92 Go Krishna 25
Step VI:26 Krishna 33 Invite 40 Mango 48 Book 64 Ice 92 Go

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91

In which step the element '92 Mid 39 35' found in the same order?

A) 3rd step   ✔B) 4th step   C) 5th step   D) 6th step   E) None of these

Explanation:-   Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step.
For words arrangement- Words are arranged according to the number of alphabets in a word. Words are arranged from left end in the increasing order of number of alphabets in a word.
(b) For numbers arrangement- The numbers are arranged from left end in decreasing order the number is change by succeeding number.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 91
Step I: 92 Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty
Step II: 77 Good 92 Mid 39 Apple 56 59 Orange 35 Beautiful Naughty
Step III: 60 Apple 77 Good 92 Mid 39 56 Orange 35 Beautiful Naughty
Step IV: 57 Orange 60 Apple 77 Good 92 Mid 39 35 Beautiful Naughty
Step V: 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid 35 Beautiful
Step VI: 36 Beautiful 40 Naughty 57 Orange 60 Apple 77 Good 92 Mid

DIRECTIONS *for the question:* In the question, a question is given followed by information in three statements. You have to consider the information in all the three statements and decide which information in the statement(s) is sufficient to answer the question. Indicate your answer accordingly.

Question No. : 6

Statement-Raising a stink: The waste bomb is ticking for India

(I) With enormous amount of trash generated annually, landfills are fast running out of space; and there will be no space on land for more dump sites.
(II) The economy promotes production. The plastic trader still wants to produce more. To counter this, we need strong material recovery mechanisms.
(III) Not too long ago, recycling was a way of Indian life. Rapid urbanisation and rising incomes triggered wasteful consumption.

Which of the following can be the repercussion of the following statement?

A) Only (III)   B) Only (II)   ✓C) Only (I)   D) All (I),(II) and (III)   E) None of these

Explanation:- *In the above statement we have to find the possible outcome of the following statement.*
For I-This can be the repercussion of the given statement because the large amount of waste is generated annually and there is no proper mechanism for its dumping so soon there will be no space on land for trash.
For II-This statement is basically providing a suggestion for the problem of waste management.
For III-This statement is giving an idea about the way this problem was handled by the people before.

DIRECTIONS *for the question:* In the question, a question is given followed by information in three statements. You have to consider the information in all the three statements and decide which information in the statement(s) is sufficient to answer the question. Indicate your answer accordingly.

Question No. : 7

Statement-Surrender and join mainstream for safe future, security agencies tell militants

(I) Boosted by the success against the rank and file of militants in recent times, security forces have jointly appealed to the insurgents and their over ground workers to surrender and join the mainstream.
(II) The Army Major speaks about the stunning mission in a new book being brought out on the first anniversary of surgical strikes in Pakistan occupied Kashmir.
(III) Security forces supposed to rehabilitate and help a militant join the mainstream if he is arrested or surrenders provided, he is not involved in any heinous crime.

Which of the following is not-in-line with the above statement?

A) Only (III)   ✓B) Only (II)   C) Only (I)   D) Both (I) and (III)   E) None of these

Explanation:- *For I-This statement is in-line with the given statement as it states about appeal made by security forces to the militants to surrender which is also mentioned in the given statement.*
For II- This statement is not-in-line with the given statement as it states about the book which is based on the surgical strikes in Pakistan occupied Kashmir.
For III- This statement is in-line with the given statement as it states that the security forces will help the militants if they surrender which is also mentioned in the given statement that surrender and join mainstream for safe future.

DIRECTIONS *for the question:* In the question, a question is given followed by information in three statements. You have to consider the information in all the three statements and decide which information in the statement(s) is sufficient to answer the question. Indicate your answer accordingly.

Question No. : 8

Six persons i.e. A, B, C, D, E and F who sits in a row such that all are facing towards north. Who among the following sits at the right end at the row?

 I. A sits second to the right of B. Both A and B does not sit at the end of the row. Only one person sits between E and D.
II. C and F are the immediate neighbour of each other. More than two persons sits between C and A. E is not the immediate neighbour of B.

A) If statements I alone is sufficient to answer the question, but statement II alone is not sufficient to answer the question.
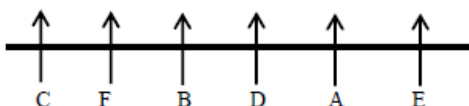B) If statement II alone is sufficient to answer the question, but statement I alone is not sufficient to answer the question
C) If statement either I or II is sufficient to answer the question.
D) If both the statements I and II taken together are not sufficient to answer the questions.
✓E) If both the statements I and II taken together are sufficient to answer the questions.

Explanation:- *From I and II,*

C   F   B   D   A   E

DIRECTIONS *for the question:* In the question, a question is given followed by information in three statements. You have to consider the information in all the three statements and decide which information in the statement(s) is sufficient to answer the question. Indicate your answer accordingly.

Question No. : 9

P, Q, R, S, T, U are sitting in a circular table. How many persons are facing to the centre?

I. Only two persons sit between P and Q. P is facing to the centre. R sits 2nd left of U. Q, S, and T don't face the same direction as U faces.
II. R sits immediate left of P. Only two persons sit between S and R.

A) If statements I alone is sufficient to answer the question, but statement II alone is not sufficient to answer the question.
B) If statement II alone is sufficient to answer the question, but statement I alone is not sufficient to answer the question
C) If statement either I or II is sufficient to answer the question.
✔D) If both the statements I and II taken together are not sufficient to answer the questions.
E) If both the statements I and II taken together are sufficient to answer the questions.

Explanation:- *From both the statements we cannot find that how many persons are facing outside to the centre.*

DIRECTIONS *for the question:* In the question, a question is given followed by information in three statements. You have to consider the information in all the three statements and decide which information in the statement(s) is sufficient to answer the question. Indicate your answer accordingly.

Question No. : 10

Certain number of persons are sitting in a row facing north. Who among the following sits immediate right of C?

I. Only three persons sit between A and D who sits one of the ends. B sits third to the right of C who is not an immediate neighbour of F.
II. C sits fourth to the right of H. E sits second to the left of B who sits one of the extreme ends. F neither immediate neighbour of H nor E.

A) If statements I alone is sufficient to answer the question, but statement II alone is not sufficient to answer the question.
B) If statement II alone is sufficient to answer the question, but statement I alone is not sufficient to answer the question
C) If statement either I or II is sufficient to answer the question.
D) If both the statements I and II taken together are not sufficient to answer the questions.
✔E) If both the statements I and II taken together are sufficient to answer the questions.

Explanation:- *By combining both the statement we can find E sits immediate right of C.*

DIRECTIONS *for the question:* In the question, a question is given followed by information in three statements. You have to consider the information in all the three statements and decide which information in the statement(s) is sufficient to answer the question. Indicate your answer accordingly.

Question No. : 11

There are 5 boxes V, W, X, Y, and Z of chocolate stored in 5 floor shelves one above the others. In which floor does box X store?

(I) Box Y is at topmost floor. Box W is just below V, but store in even numbered floor.
(II) Box Y does not store in an even number floor.
(III) Box Z does not store in even number floor but placed above box W.

A) If the data in statement I alone or in the statement II alone or in the statement III alone is sufficient to answer the question.
B) If the data in statement I and II together are sufficient to answer the question, while the data in statement III are not sufficient to answer the question.

✓C)If the data in statement I and III together are sufficient to answer the question, while the data in statement II is not sufficient to answer the question.

D) If the data in statement II and III together are sufficient to answer the question, while the data in statement I is not sufficient to answer the question.

E) If the data in all the statement I, II and III together are necessary to answer the question.
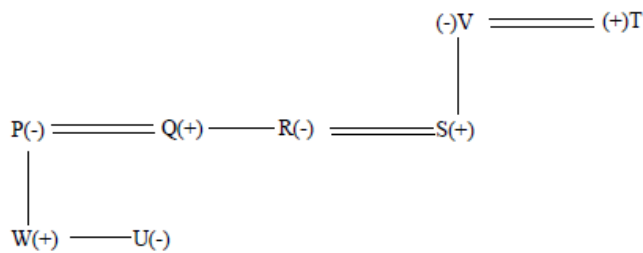
Explanation:-

Shelve	Box
5	Y
4	X
3	V
2	W
1	Z

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

Question No. : 12

There are eight members in a family i.e. P, Q, R, S, T, U, V and W. There are four females and three married couples. R is daughter in law of V. P is sister in law of R. W is son of P. W is brother of U. T is father of S, who is not married to P. T has only one child.

Who among the following is sister in law of S?

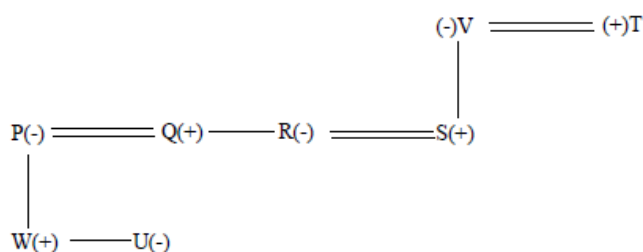A) Q   ✓B) P   C) R   D) S   E) None of these

Explanation:-

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

Question No. : 13

There are eight members in a family i.e. P, Q, R, S, T, U, V and W. There are four females and three married couples. R is daughter in law of V. P is sister in law of R. W is son of P. W is brother of U. T is father of S, who is not married to P. T has only one child.

Which of the following is true about Q?

A) U is son of Q   B) Q is daughter T   C) R is sister in law of Q   ✓D) U is daughter of Q   E) None of true
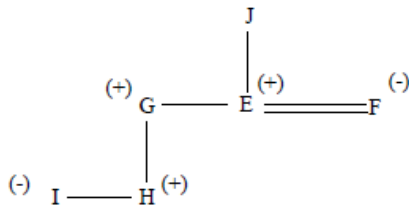
Explanation:-

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

Question No. : 14

E, F, G, H, I and J are six family members. E and F are a married couple. I is sister of H. F is daughter-in- law of J, who is grandmother of I's brother. H is the only son of G, who is brother of E.

What is the relation of F with H?
A) Brother   B) Mother   C) Uncle   ✓D) Aunt   E) None of true

Explanation:-

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

Question No. : 15

E, F, G, H, I and J are six family members. E and F are a married couple. I is sister of H. F is daughter-in- law of J, who is grandmother of I's brother. H is the only son of G, who is brother of E.

How is G related to I?

A) Mother   B) Brother   C) Sister   ✓D) Father   E) None of true
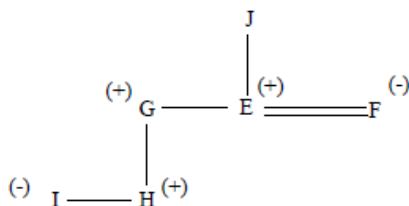
Explanation:-

DIRECTIONS *for the question: In the question, two statements I and II are given. These may have a cause and effect relationship or may have independent causes or be the effects of independent causes. Read the statements and mark answer as*

Question No. : 16

Statement I. Unemployment situation in Country X has worsened over the past couple of years.

Statement II. The government of country X has been promoting automation in various sectors to achieve higher growth rates.

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;
E) Both the statements I and II are effects of some common cause.

Explanation:- Automation reduces the need of manpower. So, statement-II is the cause and statement-I is its effect.

DIRECTIONS *for the question***:** In the question below, a statement is followed by two courses of action numbered I and II. You have to assume everything in the statement to be true and on the basis of the information given in the statement. Mark your answer as

Question No. : 17

Statement: Some workers of the company were caught smoking in the company lawn during office time.

Course of action:
I. The management of the company should immediately fire those employees who were caught smoking during office hours.
II. Warning should be issued to those employees who were caught smoking during office hours.
A) if only I follows.   ✔B) if only II follows.   C) if either I or II follows.   D) if neither I nor II follows.
E) if both I and II follow.

Explanation:-   *Action I is not appropriate because it is too harsh a course of action. Action II is appropriate in order to maintain discipline.*

DIRECTIONS *for the question*: In the question below, a statement is followed by two courses of action numbered I and II. You have to assume everything in the statement to be true and on the basis of the information given in the statement. Mark your answer as

Question No. : 18

Statement: A huge truck collided with an elephant trying to cross the highway road running across the forest causing a heavy traffic jam.

Course of action:
I. High voltage electric wires should be used to fence all the state highways.
II. People should be advised to avoid using the route effected by collision till the highway is cleared.

A) if only I follows.   ✔B) if only II follows.   C) if either I or II follows.   D) if neither I nor II follows.
E) if both I and II follow.

Explanation:-   *Action I is not appropriate because of the word 'all'. Action II is helpful in reducing the inconvenience caused to the public.*

DIRECTIONS *for the question*: In the question a statement is given followed by two arguments numbered I and II. Mark the answer as:

Question No. : 19

Statement- As an emerging economic superpower, it is quite tragic that more than one in three children in India are stunted. Stunting is associated with an underdeveloped brain, with long-lasting harmful consequences, and increased risks of nutrition-related chronic diseases, such as diabetes, hypertension, and obesity in future. Thus, stunting can be classified by itself as an illness as it leads to negatively affecting the present and future of the child.

(I) Higher economic growth and increased spending on nutrition access programme have not resulted in proportionate decrease in child malnutrition or stunting.
(II) Multiple researchers have proven the link between illness and malnutrition/ stunting in children.

A) Both I and II strengthens   B) I strengthen while II weakens   C) II strengthens while I weaken
✔D) Statement I strengthen while Statement II is neutral.   E) Both I and II weakens.

Explanation:-   *Statement I strengthen the given statement as even the economic growth is higher the problem of stunting is keep on increasing among children. But statement II is neutral statement.*

DIRECTIONS *for the question*: In the question below is given a statement followed by three assumptions numbered I, II and III. You have to consider the statement and the following assumptions, decide which of the assumptions is implict in the statement.

Question No. : 20

Rooftop solar power growth has demonstrated an overall positive trend, But this will need to be scaled up massively to achieve the national target.

Assumption:
(I) With ongoing improvements to solar cell efficiency and battery technology, rooftops will only get more attractive in the future.
(II) Major solar projects that connect to the grid often face the challenge of land acquisition and transmission connectivity.
(III) A survey helps determine usable rooftops, separating them from green spaces, and analyses the quality of the solar resource.
A) Only II follows   B) Both II and III follows   C) Both I and III follows   ✓D) Only I follows   E) Both I and II follows

Explanation:-   Only (I) can be assumed from the given statement as it is mentioned in the given statement that rooftop solar power technology is showing growth.

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

Question No. : 21

If all the vowels of the word 'AERIFEROUS' are replaced by its succeeding letter according to the English alphabet and all the consonant are replaced with their previous letter according to the English alphabet and then all the letters are arranged in the alphabetical order then how many letters are there between the third letter from the left and second letter from the right in the English alphabetic series?

✓A) 11   B) 9   C) 12   D) 10   E) None of these

Explanation:-   After applying the different conditions given in the question, we get
A E R I F E R O U S
B F Q J E F Q P V R
B E F F J P Q Q R V
Then the total number of letters between 'F'(third letter from the left) and 'R'(second letter from the right) is 11 (G, H, I, J, K, L, M, N, O, P and Q).

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

Question No. : 22

How many meaningful words can be formed using second, sixth, ninth and tenth letter of the word "ADHESIONAL". If more than one meaning full word formed then mark your answer K and if not then which of the following is the third letter from the left of that meaningful word?

A) D   B) L   ✓C) K   D) I   E) A

Explanation:-   The second, sixth, ninth and tenth letter of the word "ADHESIONAL" are D,I, A and L using these letters two meaningful words can be made 'DIAL' and 'LAID'.

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

Question No. : 23

Eight persons were born in eight different years - 1983, 1985, 1989, 1992, 1994, 1997, 2001 and 2006 their ages are calculated in the year of 2019 but not necessarily in the same order. Each one of them wears different colour shirt Red, Pink, Grey, White, Blue, Black, Yellow and Green but not necessarily in the same order.
F was born in even numbered year. Only one person was born between E and the one who wears Red, was born after E. As many persons was born before E was born after G. The one who wears pink shirt was born after the one who wears Grey. The one who wears yellow shirt was born immediately after G. D's age is a square number. Two persons were born between D and the one who wears Black. More than three persons were born between the one who wears White and the one who wears Grey. H wears Blue and was born in odd numbered year. Three persons were born between F and one who wears Green, who is not the eldest. B was born before A, who was born before C. B does not wear Grey.

What is the sum of ages of A and G (in years)?

A) 35   B) 49   C) 39   ✓D) 40   E) None of these

Explanation:-

1983	36	D	Grey
1985	34	H	Blue
1989	30	E	Pink
1992	27	F	Black
1994	25	B	Red
1997	22	G	White
2001	18	A	Yellow
2006	13	C	Green

Question No. : 24

Eight persons were born in eight different years - 1983, 1985, 1989, 1992, 1994, 1997, 2001 and 2006 their ages are calculated in the year of 2019 but not necessarily in the same order. Each one of them wears different colour shirt Red, Pink, Grey, White, Blue, Black, Yellow and Green but not necessarily in the same order.
F was born in even numbered year. Only one person was born between E and the one who wears Red, was born after E. As many persons was born before E was born after G. The one who wears pink shirt was born after the one who wears Grey. The one who wears yellow shirt was born immediately after G. D's age is a square number. Two persons were born between D and the one who wears Black. More than three persons were born between the one who wears White and the one who wears Grey. H wears Blue and was born in odd numbered year. Three persons were born between F and one who wears Green, who is not the eldest. B was born before A, who was born before C. B does not wear Grey.

Four of the following five are like in a certain way based on the above arrangement. Find which one does not belongs to the group?

A) D-Blue   B) B-White   C) A-Green   D) E-Black   ✓E) G-Pink

Explanation:-

1983	36	D	Grey
1985	34	H	Blue
1989	30	E	Pink
1992	27	F	Black
1994	25	B	Red
1997	22	G	White
2001	18	A	Yellow
2006	13	C	Green

Question No. : 25

Eight persons were born in eight different years - 1983, 1985, 1989, 1992, 1994, 1997, 2001 and 2006 their ages are calculated in the year of 2019 but not necessarily in the same order. Each one of them wears different colour shirt Red, Pink, Grey, White, Blue, Black, Yellow and Green but not necessarily in the same order.
F was born in even numbered year. Only one person was born between E and the one who wears Red, was born after E. As many persons was born before E was born after G. The one who wears pink shirt was born after the one who wears Grey. The one who wears yellow shirt was born immediately after G. D's age is a square number. Two persons were born between D and the one who wears Black. More than three persons were born between the one who wears White and the one who wears Grey. H wears Blue and was born in odd numbered year. Three persons were born between F and one who wears Green, who is not the eldest. B was born before A, who was born before C. B does not wear Grey.

Which of the following statement is true?

A) As many persons was born before C was born after H   B) One person was born between A and the one who wears Black
✓C) Less than three persons were born between C and the one who wears Red
D) More than two persons were born after A   E) E is 5 years younger than G

Explanation:-

1983	36	D	Grey
1985	34	H	Blue
1989	30	E	Pink
1992	27	F	Black
1994	25	B	Red
1997	22	G	White
2001	18	A	Yellow
2006	13	C	Green

Question No. : 26

Eight persons were born in eight different years - 1983, 1985, 1989, 1992, 1994, 1997, 2001 and 2006 their ages are calculated in the year of 2019 but not necessarily in the same order. Each one of them wears different colour shirt Red, Pink, Grey, White, Blue, Black, Yellow and Green but not necessarily in the same order.

F was born in even numbered year. Only one person was born between E and the one who wears Red, was born after E. As many persons was born before E was born after G. The one who wears pink shirt was born after the one who wears Grey. The one who wears yellow shirt was born immediately after G. D's age is a square number. Two persons were born between D and the one who wears Black. More than three persons were born between the one who wears White and the one who wears Grey. H wears Blue and was born in odd numbered year. Three persons were born between F and one who wears Green, who is not the eldest. B was born before A, who was born before C. B does not wear Grey.

How many persons were born between B and the one who wears Yellow?

✔A) 1   B) 2   C) 3   D) 4   E) None of these

Explanation:-

1983	36	D	Grey
1985	34	H	Blue
1989	30	E	Pink
1992	27	F	Black
1994	25	B	Red
1997	22	G	White
2001	18	A	Yellow
2006	13	C	Green

Question No. : 27

Eight persons were born in eight different years - 1983, 1985, 1989, 1992, 1994, 1997, 2001 and 2006 their ages are calculated in the year of 2019 but not necessarily in the same order. Each one of them wears different colour shirt Red, Pink, Grey, White, Blue, Black, Yellow and Green but not necessarily in the same order.

F was born in even numbered year. Only one person was born between E and the one who wears Red, was born after E. As many persons was born before E was born after G. The one who wears pink shirt was born after the one who wears Grey. The one who wears yellow shirt was born immediately after G. D's age is a square number. Two persons were born between D and the one who wears Black. More than three persons were born between the one who wears White and the one who wears Grey. H wears Blue and was born in odd numbered year. Three persons were born between F and one who wears Green, who is not the eldest. B was born before A, who was born before C. B does not wear Grey.

If D is related to Pink, G is related to Green, F is related to which of the following?

A) None   B) Red   C) Grey   ✔D) White   E) None of these

Explanation:-

1983	36	D	Grey
1985	34	H	Blue
1989	30	E	Pink
1992	27	F	Black
1994	25	B	Red
1997	22	G	White

| 2001	18	A	Yellow
2006	13	C	Green

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

Question No. : 28

Certain numbers of people are sitting in a straight line and all are facing in north direction. Mithun is sitting at the right extreme end and also is sitting second to the right of Shobhita. Only three persons are sitting between Akbar who is sitting one of the places to right of Raju and Shobhita. Not more than two persons are sitting to left of Akbar. Jonas is sitting in the middle of the row. Amulya is sitting second to left of Shivani and one of them is neighbor of Jonas. Akbar is sitting at one of the places to the left of Shivani.Only two persons are sitting between Shivani and Raju.Ravi is sitting at one of the places to right of Sneha.

Who is sitting immediate right of Ravi?

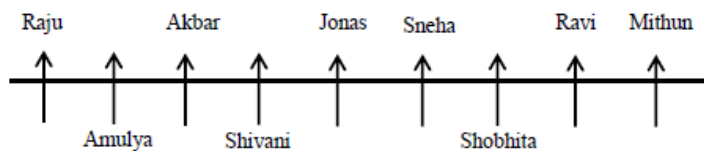A) Shohita   ✓B) Mithun   C) Jonas   D) Raju   E) None
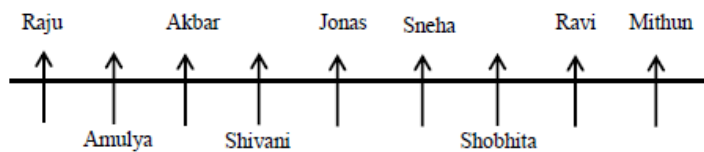
Explanation:-

Question No. : 29

Certain numbers of people are sitting in a straight line and all are facing in north direction. Mithun is sitting at the right extreme end and also is sitting second to the right of Shobhita. Only three persons are sitting between Akbar who is sitting one of the places to right of Raju and Shobhita. Not more than two persons are sitting to left of Akbar. Jonas is sitting in the middle of the row. Amulya is sitting second to left of Shivani and one of them is neighbor of Jonas. Akbar is sitting at one of the places to the left of Shivani.Only two persons are sitting between Shivani and Raju.Ravi is sitting at one of the places to right of Sneha.

How many persons are sitting to left of Akbar?

✓A) Two   B) Three   C) One   D) None   E) Either 1 or 3
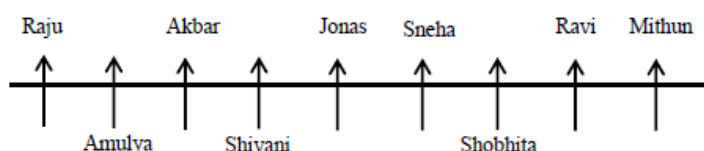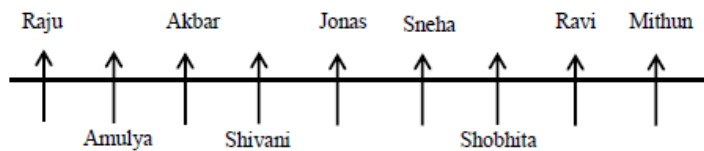
Explanation:-

Question No. : 30

Certain numbers of people are sitting in a straight line and all are facing in north direction. Mithun is sitting at the right extreme end and also is sitting second to the right of Shobhita. Only three persons are sitting between Akbar who is sitting one of the places to right of Raju and Shobhita. Not more than two persons are sitting to left of Akbar. Jonas is sitting in the middle of the row. Amulya is sitting second to left of Shivani and one of them is neighbor of Jonas. Akbar is sitting at one of the places to the left of Shivani.Only two persons are sitting between Shivani and Raju.Ravi is sitting at one of the places to right of Sneha.

What is the position of Sneha?

A) Fourth from the left end   B) Immediate right of shobhita   C) Second to left of Amulya   ✓D) Immediate right of Jonas
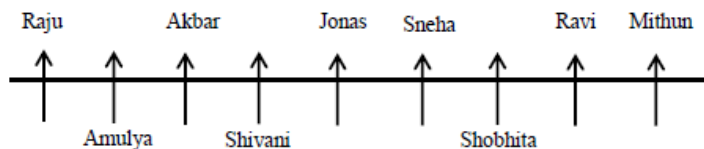E) At the extreme end

Explanation:-

Question No. : 31

Certain numbers of people are sitting in a straight line and all are facing in north direction. Mithun is sitting at the right extreme end and also is sitting second to the right of Shobhita. Only three persons are sitting between Akbar who is sitting one of the places to right of Raju and Shobhita. Not more than two persons are sitting to left of Akbar. Jonas is sitting in the middle of the row. Amulya is sitting second to left of Shivani and one of them is neighbor of Jonas. Akbar is sitting at one of the places to the left of Shivani.Only two persons are sitting between Shivani and Raju.Ravi is sitting at one of the places to right of Sneha.

Ravi is sitting between which of the following pair?
A) Mithun and Raju   B) Raju and Sneha   C) Mithun and Shobhita   ✓D) Shivani and Akbar   E) Raju and Shivani

Explanation:-

Raju   Akbar   Jonas   Sneha   Ravi   Mithun
↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑
        Amulya   Shivani   Shobhita

Question No. : 32

Certain numbers of people are sitting in a straight line and all are facing in north direction. Mithun is sitting at the right extreme end and also is sitting second to the right of Shobhita. Only three persons are sitting between Akbar who is sitting one of the places to right of Raju and Shobhita. Not more than two persons are sitting to left of Akbar. Jonas is sitting in the middle of the row. Amulya is sitting second to left of Shivani and one of them is neighbor of Jonas. Akbar is sitting at one of the places to the left of Shivani.Only two persons are sitting between Shivani and Raju.Ravi is sitting at one of the places to right of Sneha.

What is the position of Akbar with respect to Amulya?

A) Immediate left   ✓B) Immediate right   C) Two places away   D) Third to right   E) Cannot be determined

Explanation:-

Raju   Akbar   Jonas   Sneha   Ravi   Mithun
↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑
        Amulya   Shivani   Shobhita

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

Question No. : 33

There are 15 persons- F, P, T, V, M, S, L, G, B, J, K, A, D, R and N are living in a building with five floors(Numbered 1 to 5). Lowermost floor is number 1 and the top most floor is number 5. There are three flats on each floor from left to right numbered 1 to 3. Each one of them likes different types of flower viz., Lily, Peony, Coxcomb, Daffodil, Aster, Orchid, Freesia, Rose, Heather, Gerbera, Tulip, Calla, Dahlia, Liatris and Bupleurum but not necessarily in the same order. G lives on floor number 3. N does not live on flat number
2. There are two floors between R and the one who likes Orchid. The one who likes Orchid lives on even number floor. The one who likes Rose sits immediate left flat of R. Number of person lives above V and below A are same. The onewho likes Calla sits immediate left flat of A. Two persons live between P and the one who likes Calla. A does not like Orchid. Only one flat is between M and S. Only one floor is between K and the one who likes Bupleurum. K lives either on first or third floor. J is second to the left of the one who lives immediately below B. Three persons live between the one who likes Lily and the one who likes Freesia. The one who likes Freesia does not live on topmost floor. R neither likes Freesia nor likes Lily. The one who likes Coxcomb is immediate right of T. R lives on odd number flat. V lives on even number floor. B does not like coxcomb. L lives immediately below the one who likes aster. L does not like rose. N likes Heather and lives just below the one who sits right of G. Two persons sit between D and the one who likes Daffodil. G does not like tulip. P does not live on lowermost floor. Only one person lives between the one who likes Dahlia and the one who likes Gerbera. P and S do not live on same flat. R does not like Dahlia. K lives on flat number 1. G does not like Bupleurum. T likes Peony. M does not like Daffodil.

Which of the following person lives on flat number 2 of floor number 3?

A) D   B) The one who likes rose   ✓C) G   D) F   E) None of these

Explanation:-

Floor	Flat I	Flat 2	Flat 3
5	P - Lity	T - Peony	F - Coxcomb
4	M - Aster	V - Daffodil	S - Orchid
3	L - Bupleurum	G - Liatris	B - Dahila
2	J - Calla	A - Tulip	N - Heather
1	K - Freesia	D -Rose	R - Gerbera

Question No. : 34

How many floors are there between J and the one who likes Aster?

✔A) One   B) Two   C) Three   D) Four   E) None of these

Explanation:-

Floor	Flat I	Flat 2	Flat 3
5	P - Lity	T - Peony	F - Coxcomb
4	M - Aster	V - Daffodil	S - Orchid
3	L - Bupleurum	G - Liatris	B - Dahila
2	J - Calla	A - Tulip	N - Heather
1	K - Freesia	D -Rose	R - Gerbera

Question No. : 35

Which of the following flower is liked by V?

A) Liatris   B) Rose   C) Orchid   ✔D) Daffodil   E) Bupleurum

Explanation:-

Floor	Flat I	Flat 2	Flat 3
5	P - Lity	T - Peony	F - Coxcomb
4	M - Aster	V - Daffodil	S - Orchid
3	L - Bupleurum	G - Liatris	B - Dahila
2	J - Calla	A - Tulip	N - Heather
1	K - Freesia	D -Rose	R - Gerbera

Question No. : 36

Which of the following persons lives on flat number 1, flat number 2 and flat number 3 of floor number 5 respectively?

A) J, G, B   B) M, L, S   C) P, D, R   ✔D) P, T, F   E) Cannot be determined

Explanation:-

Floor	Flat I	Flat 2	Flat 3
5	P - Lity	T - Peony	F - Coxcomb
4	M - Aster	V - Daffodil	S - Orchid
3	L - Bupleurum	G - Liatris	B - Dahila
2	J - Calla	A - Tulip	N - Heather
1	K - Freesia	D -Rose	R - Gerbera

Question No. : 37

On which of the following flat and floor number does F lives respectively?

A) 3, 3   B) 2, 4   ✔C) 3, 5   D) Cannot be determined   E) None of these

Explanation:-

Floor	Flat I	Flat 2	Flat 3
5	P - Lity	T - Peony	F - Coxcomb
4	M - Aster	V - Daffodil	S - Orchid
3	L - Bupleurum	G - Liatris	B - Dahila
2	J - Calla	A - Tulip	N - Heather
1	K - Freesia	D -Rose	R - Gerbera

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

Question No. : 38

A, B, C, D, E, G and I are seven friends who study at three different branches namely Mukharjee Nagar, Dwarka, and Laxmi Nagar such that not less than two friends study in the same branch. Each friend also has a different favourite subject viz. History, Civics, English, G.K., Reasoning, Maths and Economics but not necessarily in the same order. Each of the students attends the classes of his favourite subjects at different
Time B attends his classes at 10 AM. G attends his classes at 7 AM. A likes Maths and studies in the Mukharjee Nagar branch with only one other friend who likes G.K. I studies with two other friends. There is only one hour gap between the time of class of the persons from Dwarka and the one whose favourite subject is G.K. Both the friends who study with I like the same subjects, which can be either Reasoning or English. D studies in the Dwarka branch with only one person and does not like civics. The one whose favourite subject is Economics takes his class at 8 AM. I attends his class at 8 'O clock. The persons whose favourite subjects are Economics and History do not have their classes at the same time. E studies with only one friend. The one who likes history does not study in Mukharjee Nagar nor Dwarka branch. E does not like G.K. subject. C does not like English, Reasoning or Civics. A and the one whose favourite subject is Civics have their class at 11 AM. C attends his class after D.

Which combination represents E's favourite subject and the branch in which he studies?

A) Civics and Laxmi Nagar   B) Economics and Mukharjee Nagar   ✓C) Civics and Dwarka   D) History and Laxmi Nagar
E) Economics and Laxmi Nagar

Explanation:-

Favourite Subject	Branch	Person	Time
Math	Mukharjee Nagar	A	11AM
Reasoning/English	Laxmi Nagar	B	10AM
GK	Mukharjee Nagar	C	9AM
Economics	Dwarka	D	8AM
Civies	Dwarka	E	11AM
Reasoning/English	Laxmi Nagar	G	7AM
History	Laxmi Nagar	I	8AM

Question No. : 39

I attends his class at?

A) 11 AM   B) 8 AM   C) 10 AM   D) 9 AM   ✓E) None of these

Explanation:-

Favourite Subject	Branch	Person	Time
Math	Mukharjee Nagar	A	11AM
Reasoning/English	Laxmi Nagar	B	10AM
GK	Mukharjee Nagar	C	9AM
Economics	Dwarka	D	8AM
Civies	Dwarka	E	11AM
Reasoning/English	Laxmi Nagar	G	7AM
History	Laxmi Nagar	I	8AM

Question No. : 40

Who amongst the following studies in the Laxmi Nagar branch?

✔A) G   B) C   C) E   D) D   E) Either D or B

Explanation:-

Favourite Subject	Branch	Person	Time
Math	Mukharjee Nagar	A	11AM
Reasoning/English	Laxmi Nagar	B	10AM
GK	Mukharjee Nagar	C	9AM
Economics	Dwarka	D	8AM
Civies	Dwarka	E	11AM
Reasoning/English	Laxmi Nagar	G	7AM
History	Laxmi Nagar	I	8AM

Question No. : 41

Which of the following combinations is definitely correct?

A) I and Reasoning   B) G and English   ✔C) C and G.K.   D) B and Reasoning   E) E and Economics

Explanation:-

Favourite Subject	Branch	Person	Time
Math	Mukharjee Nagar	A	11AM
Reasoning/English	Laxmi Nagar	B	10AM
GK	Mukharjee Nagar	C	9AM
Economics	Dwarka	D	8AM
Civies	Dwarka	E	11AM
Reasoning/English	Laxmi Nagar	G	7AM
History	Laxmi Nagar	I	8AM

Question No. : 42

Which of the following subjects does G like?

A) Either Maths or G.K.   ✔B) Either Reasoning or English   C) Either Reasoning or Civics   D) Either Reasoning or G.K.
E) Either Civics or Economics

Explanation:-

Favourite Subject	Branch	Person	Time
Math	Mukharjee Nagar	A	11AM
Reasoning/English	Laxmi Nagar	B	10AM
GK	Mukharjee Nagar	C	9AM
Economics	Dwarka	D	8AM
Civies	Dwarka	E	11AM
Reasoning/English	Laxmi Nagar	G	7AM
History	Laxmi Nagar	I	8AM

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

Question No. : 43

How many pairs of letters are there in the word "POTENTIALLY" each of which have as many letters between them in the word as they have between them in the English alphabetical series?

A) One   B) Two   ✔C) Three   D) Four   E) More than Four
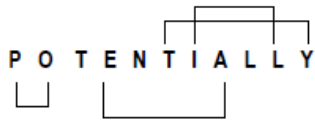
Explanation:-

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

Question No. : 44

How many words can be formed from the 1st, 5th, 8th and 9th letter of a word 'ASTONOMERS' by using each letter once in the word?

✓A) two   B) one   C) none   D) three   E) More than three

Explanation:-   *Near. Earn*

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

Question No. : 45

If all the letters in the word DELIGHT are arranged in alphabetical order from left to right in such a way that vowels are arranged first followed by consonants, then how many letters are there in between D and L after the arrangement?

✓A) two   B) one   C) none   D) three   E) four

Explanation:-   *Original word- DELIGHT Obtained word- EIDGHLT*

DIRECTIONS *for the question:* The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.
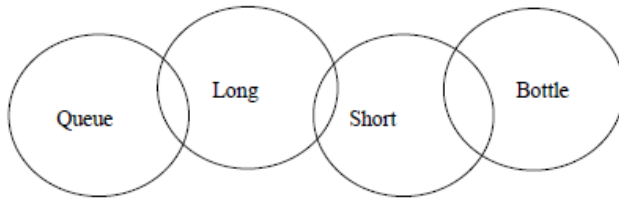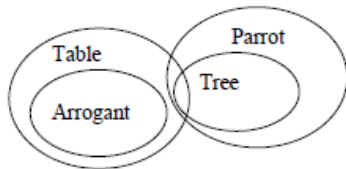
Question No. : 46

Statements: Some Apple are mango No mango is blood Only Blood is Heart

Conclusion:
 I. Some Heart is not Mango
II. All blood can be Apple

✓A) If only conclusion I follows.   B) If only conclusion II follows   C) If either conclusion I or II follows
D) If neither conclusion I nor II follows   E) If both conclusions I and II follow

Explanation:-

DIRECTIONS *for the question:* The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.
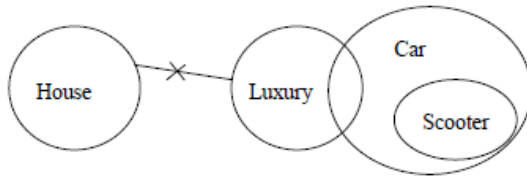
Question No. : 47

Statements: Only a few Queue is long Some Long are Short Some Short is Bottle

Conclusion:
I. All Long can be Short
II. All queue can be Long
✓A) If only conclusion I follows.   B) If only conclusion II follows   C) If either conclusion I or II follows
D) If neither conclusion I nor II follows   E) If both conclusions I and II follow

Explanation:-

DIRECTIONS *for the question:* The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.
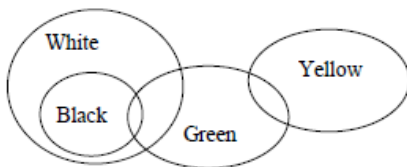
Question No. : 48

Statements: All arrogant are table Some table are tree All tree are parrot.

Conclusion:
I. All tree are arrogant
II. Some tree are not arrogant

A) If only conclusion I follows.   B) If only conclusion II follows   ✓C) If either conclusion I or II follows
D) If neither conclusion I nor II follows   E) If both conclusions I and II follow

Explanation:-

DIRECTIONS *for the question:* The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

Question No. : 49

Statements: No house is luxury Some luxury is car Only car is Scooter

Conclusions:
I. Some scooter can be car
II. Some car is not house

A) If only conclusion I follows.   ✓B) If only conclusion II follows   C) If either conclusion I or II follows
D) If neither conclusion I nor II follows   E) If both conclusions I and II follow

Explanation:-

DIRECTIONS *for the question:* The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

Question No. : 50

Statements: All black are white Some black are green
Only a few Green are Yellow

Conclusions:
I. All green can be white
II. Some yellow can be black

A) If only conclusion I follows.   B) If only conclusion II follows   C) If either conclusion I or II follows
D) If neither conclusion I nor II follows   ✓E) If both conclusions I and II follow

Explanation:-

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

Question No. : 51

Statements: A ≤ C, K > A, E > G ≥ B, K

Conclusions:
I. E > A
II. E ≥ B

✓A) if only conclusion I is true   B) if only conclusion II is true   C) if either conclusion I or II is true
D) if neither conclusion I nor II is true   E) if both conclusions I and II are true

Explanation:-   I. E > A (True) II. E ≥ B (false)

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

Question No. : 52

Statements: A ≥ P > K, Q > A = R

Conclusions:
I. Q = K
II. Q > K

A) if only conclusion I is true   ✔B) if only conclusion II is true   C) if either conclusion I or II is true
D) if neither conclusion I nor II is true   E) if both conclusions I and II are true

Explanation:-   I. Q = K (false) II. Q > K (True)

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

Question No. : 53

Statements: A = N > M < B, Q > N

 Conclusions:
I. Q > B
II. B > Q

A) if only conclusion I is true   B) if only conclusion II is true   C) if either conclusion I or II is true
 ✔D) if neither conclusion I nor II is true   E) if both conclusions I and II are true

Explanation:-   I. Q > B (false) II. B > Q (false)

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

Question No. : 54

Statements: Q = N > X < Z, L > N

Conclusions:
I. L > Q
II. X < L

A) if only conclusion I is true   B) if only conclusion II is true   C) if either conclusion I or II is true
D) if neither conclusion I nor II is true   ✔E) if both conclusions I and II are true

Explanation:-   I. L > Q (True) II. X < L (True)

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

Question No. : 55

Statements: J ≤ K = M, N ≥ P > K, Q > N = R

Conclusions:
I.M > J
II. J = M

A) if only conclusion I is true   B) if only conclusion II is true   ✔C) if either conclusion I or II is true
D) if neither conclusion I nor II is true   E) if both conclusions I and II are true

Explanation:-   I. M > J (false) II. J = M (false)

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

Question No. : 56

In a certain code language,'energy save bright light' is written as 'su da nc ki', 'human light south effect' is written as 'ph ra ti da', 'found effect bright health' is written as 'ti gi ki mo', 'health system south energy' is written as 'zo nc ph gi'.

What is the code for 'save'?
A) da   ✓B) su   C) nc   D) ki   E) Cannot be determined

Explanation:-

Word	Code
Energy	nc
Save	su
Bright	ki
Light	da
Human	ra
Souh	ph
Found	mo
Effect	ti
Health	gi
System	zo

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

Question No. : 57

In a certain code language,'energy save bright light' is written as 'su da nc ki', 'human light south effect' is written as 'ph ra ti da', 'found effect bright health' is written as 'ti gi ki mo', 'health system south energy' is written as 'zo nc ph gi'.

Which of the following is the code for 'human health bright'?

A) zo ra ki   B) ra su mo   C) ti su ra   ✓D) ki ra gi   E) None of these

Explanation:-

Word	Code
Energy	nc
Save	su
Bright	ki
Light	da
Human	ra
Souh	ph
Found	mo
Effect	ti
Health	gi
System	zo

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

Question No. : 58

In a certain code language,'energy save bright light' is written as 'su da nc ki', 'human light south effect' is written as 'ph ra ti da', 'found effect bright health' is written as 'ti gi ki mo', 'health system south energy' is written as 'zo nc ph gi'.

What does 'mo' stand for?

A) bright   B) health   ✓C) found   D) south   E) Cannot be determined

Explanation:-

Word	Code

Energy	nc
Save	su
Bright	ki
Light	da
Human	ra
Souh	ph
Found	mo
Effect	ti
Health	gi
System	zo

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

Question No. : 59

In a certain code language,'energy save bright light' is written as 'su da nc ki', 'human light south effect' is written as 'ph ra ti da', 'found effect bright health' is written as 'ti gi ki mo', 'health system south energy' is written as 'zo nc ph gi'.

Which of the following is represented by the code 'da ph nc'?

A) south effect energy   B) energy light system   ✓C) energy light south   D) south human effect   E) None of these

Explanation:-

Word	Code
Energy	nc
Save	su
Bright	ki
Light	da
Human	ra
Souh	ph
Found	mo
Effect	ti
Health	gi
System	zo

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

Question No. : 60

In a certain code language,'energy save bright light' is written as 'su da nc ki', 'human light south effect' is written as 'ph ra ti da', 'found effect bright health' is written as 'ti gi ki mo', 'health system south energy' is written as 'zo nc ph gi'.

Which of the following may be the possible code for 'team save found light'?

A) su ye ph da   B) mo gi da su   ✓C) da su mo ye   D) ti ye su da   E) None of these

Explanation:-

Word	Code
Energy	nc
Save	su
Bright	ki
Light	da
Human	ra
Souh	ph
Found	mo
Effect	ti

Health	gi
System	zo

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

Question No. : 61

Which alphabet is 3rd from the left in the meaningful four-letter word formed from the 1st , 2nd, 5th and 8th letter of the word "JOURNALIST"? If more than one word is formed, then mark answer as X and no meaningful word is formed then mark answer as Z.

A) O   B) J   C) Z   ✓D) I   E) X

Explanation:- *Given word is JOURNALIST*
1st, 2nd, 5th and 8th alphabet is J, O, N, I
The meaningful word is JOIN.
So, the third alphabet from the left is I.

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

Question No. : 62

If in the number "364872159", 2 is multiply by the digits which is less than 5 and 1 is subtracted to the digits which is greater than 4, then all digits are arranged in ascending order from left to right, then which of the following digit is exactly middle in the number?

A) 7   ✓B) 6   C) 5   D) 4   E) None of these

Explanation:- *Original Number- 364872159*
After applied given conditions-244566788

DIRECTIONS *for the question:* In the question a statement is given followed by three courses of action numbered I, II and III. Assume everything in the statement to be true. Decide which of the three given suggested courses of action logically follows for pursuing.

Question No. : 63

Statement: In one of the worst accidents in railway level crossing, fifty people died when a bus carrying them collided on to a running train.

Courses of action:
 I. The train driver should immediately be suspended.
 II. The driver of the bus should be tried on court for negligence on his part.
 III. The railway authority should be asked to man all its level crossings.

A) None follows   B) Only I and II follow   ✓C) Only III follow   D) Only II and III follow   E) None of these

Explanation:- *The problem discussed in the statement is not regarding the current accident, but to do something to avert such mishaps. Accidents at railway crossings can be averted by deploying men to regulate traffic and installing barriers to check traffic movement when a train passes by. So, only III follows*

DIRECTIONS *for the question:* In the question a statement is given followed by three courses of action numbered I, II and III. Assume everything in the statement to be true. Decide which of the three given suggested courses of action logically follows for pursuing.

Question No. : 64

Statement: The Company X has rejected first lot of values supplied by Company A and has cancelled its entire huge order quoting use of inferior quality material and poor craftsmanship.

Courses of action:
I. The Company A needs to investigate functioning of its purchase, production and quality control departments.
II. The Company A should inspect all the values rejected by Company X.
III. The Company A should inform Company X that steps have been taken for improvement and renegotiate schedule of supply.
✔A) Only I and II follow   B) Only II follow   C) II, and either I or III follow   D) All I, II and III follow   E) None of these

Explanation:-   First of all, company A should inspect the rejected valves to ensure if they are really sub-standard. If yes, it should scrutinize its working thoroughly and remove its lackenings, be it in the quality of raw material or craftsmanship. So, both I and II follow. III seems to be a far-off action which can be implemented only after the first two steps are put into practice. Thus, III does not follow.

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

Question No. : 65

Eight persons Aashvi, Bhairav, Chavez, Dhruvi, Eeshan, Faizan, Geetika and Hendrik are sitting in a straight line facing north direction. They all have different ages such as 8, 12, 14, 21, 28, 36, 44 and 56.
Two persons are sitting between Chavez and the one whose age is 56 years. The one whose age is 14 years is sitting second to the left of Chavez. Bhairav sits to the immediate left of the one whose age is 56 years. One person is sitting between Hendrik and the one whose age is 56 years. Either Hendrik or the one whose age is 56 years is sitting at the extreme end. There is a difference of 6 years between the ages of Faizan and Geetika and two persons are sitting between them. The one whose age is 12 is sitting second to the left of Dhruvi. Dhruvi is not sitting at the extreme end. There is one person sitting between Faizan and the one whose age is 44 years. Aashvi is an immediate neighbor of the one whose age is 44 years. Eeshan and the one whose age is 21 years are immediate neighbors. Hendrik is older than Aashvi.

How many persons are sitting between the people who are having age difference of 4 years?

A) 1   B) 2   ✔C) 3   D) 4   E) None of these

Explanation:-

Case:3							
Persons (North)	Faizan	Aashvi	Chavez	Geetika	Bhairav	Eeshan	Dhruv	Hendrik
Ages	14	28	44	8	12	56	21	36

Question No. : 66

Eight persons Aashvi, Bhairav, Chavez, Dhruvi, Eeshan, Faizan, Geetika and Hendrik are sitting in a straight line facing north direction. They all have different ages such as 8, 12, 14, 21, 28, 36, 44 and 56.
Two persons are sitting between Chavez and the one whose age is 56 years. The one whose age is 14 years is sitting second to the left of Chavez. Bhairav sits to the immediate left of the one whose age is 56 years. One person is sitting between Hendrik and the one whose age is 56 years. Either Hendrik or the one whose age is 56 years is sitting at the extreme end. There is a difference of 6 years between the ages of Faizan and Geetika and two persons are sitting between them. The one whose age is 12 is sitting second to the left of Dhruvi. Dhruvi is not sitting at the extreme end. There is one person sitting between Faizan and the one whose age is 44 years. Aashvi is an immediate neighbor of the one whose age is 44 years. Eeshan and the one whose age is 21 years are immediate neighbors. Hendrik is older than Aashvi.

What is the age difference between Faizan and Dhruvi?

A) 8   ✔B) 7   C) 5   D) 6   E) None of these

Explanation:-

Case:3							
Persons (North)	Faizan	Aashvi	Chavez	Geetika	Bhairav	Eeshan	Dhruv	Hendrik

Ages	14	28	44	8	12	56	21	36

Question No. : 67

Eight persons Aashvi, Bhairav, Chavez, Dhruvi, Eeshan, Faizan, Geetika and Hendrik are sitting in a straight line facing north direction. They all have different ages such as 8, 12, 14, 21, 28, 36, 44 and 56.
Two persons are sitting between Chavez and the one whose age is 56 years. The one whose age is 14 years is sitting second to the left of Chavez. Bhairav sits to the immediate left of the one whose age is 56 years. One person is sitting between Hendrik and the one whose age is 56 years. Either Hendrik or the one whose age is 56 years is sitting at the extreme end. There is a difference of 6 years between the ages of Faizan and Geetika and two persons are sitting between them. The one whose age is 12 is sitting second to the left of Dhruvi. Dhruvi is not sitting at the extreme end. There is one person sitting between Faizan and the one whose age is 44 years. Aashvi is an immediate neighbor of the one whose age is 44 years. Eeshan and the one whose age is 21 years are immediate neighbors. Hendrik is older than Aashvi.

What is the age of Hendrik?

A) 44   B) 21   ✓C) 36   D) 56   E) None of these

Explanation:-

Case:3								
Persons (North)	Faizan	Aashvi	Chavez	Geetika	Bhairav	Eeshan	Dhruv	Hendrick
Ages	14	28	44	8	12	56	21	36

Question No. : 68

Eight persons Aashvi, Bhairav, Chavez, Dhruvi, Eeshan, Faizan, Geetika and Hendrik are sitting in a straight line facing north direction. They all have different ages such as 8, 12, 14, 21, 28, 36, 44 and 56.
Two persons are sitting between Chavez and the one whose age is 56 years. The one whose age is 14 years is sitting second to the left of Chavez. Bhairav sits to the immediate left of the one whose age is 56 years. One person is sitting between Hendrik and the one whose age is 56 years. Either Hendrik or the one whose age is 56 years is sitting at the extreme end. There is a difference of 6 years between the ages of Faizan and Geetika and two persons are sitting between them. The one whose age is 12 is sitting second to the left of Dhruvi. Dhruvi is not sitting at the extreme end. There is one person sitting between Faizan and the one whose age is 44 years. Aashvi is an immediate neighbor of the one whose age is 44 years. Eeshan and the one whose age is 21 years are immediate neighbors. Hendrik is older than Aashvi.

What is the sum of the ages of the persons who sit at extreme end?

A) 52   ✓B) 50   C) 42   D) 68   E) None of these

Explanation:-

Case:3								
Persons (North)	Faizan	Aashvi	Chavez	Geetika	Bhairav	Eeshan	Dhruv	Hendrick
Ages	14	28	44	8	12	56	21	36

Question No. : 69

Eight persons Aashvi, Bhairav, Chavez, Dhruvi, Eeshan, Faizan, Geetika and Hendrik are sitting in a straight line facing north direction. They all have different ages such as 8, 12, 14, 21, 28, 36, 44 and 56.
Two persons are sitting between Chavez and the one whose age is 56 years. The one whose age is 14 years is sitting second to the left of Chavez. Bhairav sits to the immediate left of the one whose age is 56 years. One person is sitting between Hendrik and the one whose age is 56 years. Either Hendrik or the one whose age is 56 years is sitting at the extreme end. There is a difference of 6 years between the ages of Faizan and Geetika and two persons are sitting between them. The one whose age is 12 is sitting second to the left of Dhruvi. Dhruvi is not sitting at the extreme end. There is one person sitting between Faizan and the one whose age is 44 years. Aashvi is an immediate neighbor of the one whose age is 44 years. Eeshan and the one whose age is 21 years are immediate neighbors. Hendrik is older than Aashvi.

What is the sum of the ages of the persons who sit at extreme end?

A) 52   B) 50   C) 42   ✓D) 68   E) None of these

Explanation:-

Case:3							
Persons (North)	Faizan	Aashvi	Chavez	Geetika	Bhairav	Eeshan	Dhruv	Hendrick
Ages	14	28	44	8	12	56	21	36

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

Question No. : 70

Ten persons from different companies viz, Indigo, Biocon, Micromax, Samsung, Havells, Amul, Tata,VSNL, Amazon and cipla are sitting in two parallel rows containing five people each, in such a way that there is an equal distance between adjacent persons.
In row-1 G, H, I, J and K are seated and all of them are facing South.
In row -2 U, V, W, X and Y are seated and all of them are facing North.
Therefore, in the given seating arrangement, each member seated in a ow faces another member of the other row. K sits third to the left of the person from Biocon. V is an immediate neighbor of the person who faces K. The person from Havells sits to the immediate left of V. Only two people sit between the person from Micromax and H. The person from Micromax is not an immediate neighbor of K. Only one person sits between the one who faces H and the person from Tata.
X sits second to the right of W.W does not sit an extreme end of the line. The person from Cipla sits third to the left of the one who faces W.
U is an immediate neighbor of the person from Samsung. U is not from the Tata. Only two people sit between the person form Amul and J. The person from Amazon is an immediate neighbor of the person who faces the person from Amul. Only one person sits between the one who faces the person from Amazon and I, Neither I or U is from Indigo.

 K is related to the person from VSNL in the same way as W is related to person from Tata based on the given arrangement . To who amongst the following is, X related to , following the same pattern ?

A) The person from Amul   B) The person from Indigo   ✓C) The person from Amazon   D) The person from Havells
E) The person from Micromax

Explanation:-

Biocon(J)	Micromax(G)	VSNL(I)	Amul(K)	Cipla(H)
Indigo(Y)	Havells(W)	Tata(V)	Samsung(X)	Amazon(U)

Question No. : 71

Y is from which of the following companies ?

A) Indigo   ✓B) Tata   C) Amul   D) Samsung   E) Biocon

Explanation:-

Biocon(J)	Micromax(G)	VSNL(I)	Amul(K)	Cipla(H)
Indigo(Y)	Havells(W)	Tata(V)	Samsung(X)	Amazon(U)

Question No. : 72

Who amongst the following faces the person from VSNL ?

A) The person from Amazon   B) V   ✔C) Y   D) The person from Micromax   E) The person from Havells

Explanation:-

Biocon(J)	Micromax(G)	VSNL(I)	Amul(K)	Cipla(H)
Indigo(Y)	Havells(W)	Tata(V)	Samsung(X)	Amazon(U)

Question No. : 73

Which of the following is true regarding G ?

A) Only one person sit s between G and the person from Cipla   ✔B) The person from Samsung faces G
C) G is an immediate neighbor of the person from Biocon   D) None of the given options is true
E) G sits to the immediate left of I

Explanation:-

Biocon(J)	Micromax(G)	VSNL(I)	Amul(K)	Cipla(H)
Indigo(Y)	Havells(W)	Tata(V)	Samsung(X)	Amazon(U)

Question No. : 74

Who amongst the following sit at extreme ends of the rows ?

A) The persons from Indigo and G   B) The persons from Cipla and X   C) K,Y   ✔D) J and the person from Amazon
E) The person from Micromax and U

Explanation:-

Biocon(J)	Micromax(G)	VSNL(I)	Amul(K)	Cipla(H)
Indigo(Y)	Havells(W)	Tata(V)	Samsung(X)	Amazon(U)

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

Question No. : 75

If in the number 9365714873, all the digits are arranged in increasing order from left to right in such a way first prime numbers then odd numbers and last even numbers are arranged. After this arrangement 2 is subtracted to last four digits and 2 is added in the rest of the digits after that subtract 1 from each of the digits then how many digits remain at the same position in the new arrangement?

A) Two   B) Three   C) None   ✔D) One   E) Four

Explanation:-   *Original number- 9365714873 Obtained number- 4468826135*

Section : Verbal Usage & Reading Comprehension

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

Question No. : 76

After a delay of two years, the Crime in India Report for the year 2017 was finally released by the National Crime Records Bureau on Monday. A few months ago, government officials had blamed the States of West Bengal and Bihar for lackadaisical

responses in sending data, and said that more subheads for the data would be added in the latest report requiring further collation and error corrections. These new subheads reportedly included data on hate crimes besides those related to mob lynching, killings ordered by khap panchayats, murders by influential people, besides "anti-national elements". Except for the last category — Crimes by Northeast insurgents, left wing extremists and terrorists — the other subheads are missing in the report which suggests that the Bureau was not keen on including them. The Supreme Court last year had, in an order, called for a special law to deal with lynching, and data on such hate crimes would have been useful in both law enforcement and jurisprudence. The Central government has time and again argued against the need for a separate law and has affirmed that curbing lynching was a matter of "enforcement". Without a proper accounting of hate crimes — as of now there exist only a few independent "hate crime trackers" based on media reports — the question arises if the government is serious about tackling them effectively. The NCRB data on crime hide significant variances in case registration of serious crimes such as rapes and violence against women across States, which make it difficult to draw Statewise comparisons. The total number of crimes committed against women country-wide increased by 6% since 2016, while those against Scheduled Castes went up by 13%. However there is the possibility of some States reporting such crimes better. This is pertinent, particularly in rape cases, where the Union Territory of Delhi registered a rate of 12.5 per one lakh population, surpassed only by Madhya Pradesh (14.7) and Chhattisgarh (14.6). But the filing of rape complaints in Delhi have significantly increased following public outcry over the December 2012 rape incident and this could partially explain the high rate of such cases. The fact that Delhi recorded a 40.4% of the total IPC crimes registered among metropolitan cities in 2017 is also likely due to the use of easier (online) means to register them. The other drawback in the report is the use of the census base year as 2001 to calculate crime rates for States and 2011 for metropolitan cities, which make the assessments unwieldy. Despite these issues, the report offers a useful snapshot of crime in the country. Some crimes, murders for example, do not suffer from registration issues as much. The 2017 report shows that the States in the northeast and others in the rest of the country with a significant tribal population (Jharkhand, Chhattisgarh, Odisha) have relatively higher murder rates and this is a cause of worry.

Which of the following statements is/are not true based on the given passage?

(i) Crimes against women in India increased by 6% since 2017.
(ii) Crime in India Report for the year 2018 has been released after two years.
(iii) Crimes against Scheduled Castes increased by 13 percent.
A) Only i   B) Only ii   ✓C) Both i & ii   D) Both ii & iii   E) All i, ii, iii

Explanation:-

Statement (i) is false because crimes against women increased since 2016
Statement (ii) is false because Crime in India report for the year 2017 has been released not 2018.

Question No. : 77

According to the passage which of the following states have not cooperated with NCRB to conduct the survey?

A) Chattisgarh   B) West Bengal   C) Bihar   D) Madhya Pradesh   ✓E) Both 2 & 3

Explanation:-   From the line "A few months ago, government officials had blamed the States of West Bengal and Bihar for lackadaisical responses in sending data, and said that more subheads for the data would be added in the latest report requiring further collation and error corrections" In the first paragraph answer can be concluded.

Question No. : 78

According to the passage which of the following crimes has not been included in the survey?

A) Mob lynching   B) Crimes by terrorists   C) Murders by influential people   D) Killings ordered by khap panchayats
✓E) Not mentioned in the passage.

Explanation:-   From the line "Except for the last category — Crimes by Northeast insurgents, left wing extremists and terrorists — the other subheads are missing in the report which suggests that the Bureau was not keen on including them" Answer can be concluded.

Question No. : 79

According to the passage the author says there might be chances for some states of reporting better about some crimes, what are all that crimes that he tries to convey?

A) Mob lynching   B) Crimes against women   C) Crimes against SC community   ✓D) Both 2 & 3   E) All the above

Explanation:- *From the line "The total number of crimes committed against women country-wide increased by 6% since 2016, while those against Scheduled Castes went up by 13%. However there is the possibility of some States reporting such crimes better." Answer can be concluded.*

Question No. : 80

Which of the following statement is true based on the given passage?

A) Delhi holds the maximum number of rape cases registered with a rate of 12.5 per one lakh population
✓B) States in the northeast and others area with tribal population have higher murder rates.
C) Delhi recorded a 40.4 per lakh population of the IPC crimes registered among metropolitan cities in 2017.
D) Madhya Pradesh has a rate of 14.7 per one lakh population under mob lynching.   E) All of the above

Explanation:- *States in the northeast and others area with tribal population have higher murder rates.*
Refer to last lines of the passage - "*The 2017 report shows that the States in the northeast and others in the rest of the country with a significant tribal population (Jharkhand, Chhattisgarh, Odisha) have relatively higher murder rates and this is a cause of worry.*"

Question No. : 81

According to the passage what might be the reason behind the record number of crimes registered in Delhi?

A) Political hazards   B) Lack of education   ✓C) Registering complaint through online   D) Due to huge population
E) Flaws of the ruling government

Explanation:- *From the line "The fact that Delhi recorded a 40.4% of the total IPC crimes registered among metropolitan cities in 2017 is also likely due to the use of easier (online) means to register them" answer can be concluded.*

Question No. : 82

Which of the following states has not been mentioned in passage?

A) Delhi   B) Chattisgarh   C) Bihar   ✓D) Haryana   E) Odisha

Explanation:- *There is no mention of Haryana in the pasage.*

Question No. : 83

Which of the following words could replace **pertinent** mentioned in the above passage?

A) Relevant   B) Appropriate   C) Applicable   D) Germane   ✓E) All of these

Explanation:- *Pertinent – Appropriate/Relevant/Applicable/Germane. All the options are synonyms of the given word*

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

Question No. : 84

On September 27, a Tripura High Court Bench of Chief Justice Sanjay Karol and Justice Arindam Lodh banned the sacrifice of animals and birds in temples of the state, and directed the government to sensitise people about constitutional values and the importance of love, humanism, and compassion towards all animals and birds. The managements of two major temples, mentioned in the judgment, chose to defy the order, citing the absence of a notification on the ban. Meanwhile, Pradyot Debbarman, the son of Tripura's last king Kirit Bikram Kishore Manikya, and the state government intend to appeal in the Supreme Court. State Law & Parliamentary Affairs Minister Ratan Lal Nath told reporters Monday that the government did not want to "hurt anyone's religious beliefs" through its actions. Debbarman told that while the scale of animal sacrifice must be reduced, "courts cannot play the role of priests". Animal sacrifice has been happening for at least 500 years in Tripura. The two major sites are the Tripureswari Devi temple in Udaipur, and the Chaturdash Devta temple in Agartala. Both temples were founded by the Manikyas, Tripura's ruling dynasty from the late 13th century until September 9, 1949. The Tripureswari Temple, considered one of the 51 shakti peethas, was founded in 1501 by Maharaja Dhanya Manikya. The Chaturdash Devta Temple, or

'Temple of Fourteen Gods', who were the royal deities, was established in its current location around 1770 by Maharaja Krishna Kishore Manikya. The court ruled that the tradition of sacrificing animals "lacks the essence of economic, commercial, political or secular character" and cannot be protected under Article 25(1) of the Constitution (Subhas Bhattacharjee vs The State of Tripura and Others). Freedom of religion is subject to the rigours of public order, morality, and health, it said. Also, animal sacrifice in a temple is violative of Article 21, the court said, adding that religious practice cannot override provisions of the Prevention of Cruelty to Animals Act, 1960. Drawing reference from Rev. James Long's 'Human Sacrifices in Tripura', the court said there was evidence that up to 1,000 humans were sacrificed every year until about 1407 — "Thus it is only logical that when human sacrifice could be stopped then nothing can impede a ban on sacrifice of animals as part of religious practice, for life of both humans and animals are legally required to be valued and protected." The government argued that under the terms of Tripura's Merger Agreement with the Indian Dominion, worship at Mata Tripureswari and other temples should continue in the traditional manner. Animal sacrifice was part of tantric worship, and the petition had been filed only to "disturb the Hindu sentiment and presumably by anti-Hindu elements", because it did not challenge the practice of animal sacrifice during Bakr Eid, the government said. The court rejected this argument as "preposterous": "The State cannot be allowed to take such a stand, more so, in the absence of any material, substantiating the same". It said: "The issue of animal sacrifice by the minority community (Muslims) on the occasion of Bakr Id, already stands settled in Mohd. Hanif Quareshi (Mohd. Hanif Quareshi & Others vs The State Of Bihar, 1958), Ashutosh Lahiri (State Of West Bengal vs Ashutosh Lahiri, 1994) and Mirzapur (Mirzapur Moti Kureshi Kassab vs State Of Gujarat And Ors, 1998); hence, such plea needs to be repelled at the threshold." Even in those cases, the Supreme Court had ruled that animal sacrifice was not an essential part of Islam and could not be granted protection on the ground of religious freedom, and that states were free to enact laws to ban the practice, the court said. However, on the question of a blanket ban, the courts have held differing opinions. "And here we may only remind the State what message Sri Rabindra Nath Tagore conveyed to the then Raja and his citizenry through his famous work, Bishorjan," the court said. Tagore was closely associated with the royal house of Manikyas, who had accorded him the title of 'Bharat Bhaskar', and gave him financial assistance for the construction of Visva-Bharati. He captured a turbulent phase in the history of the Tripura kingdom in his novel Rajarshi, which he later adapted into the play Bishorjon. Rajarshi, written with inputs from Maharaja Bir Chandra Manikya around 1880, chronicled the decision of Maharaja Gobinda Manikya (1660-61 and 1667-76) to ban animal sacrifice, which angered the orthodoxy led by the head priest or Chantai, Raghupati. The novel begins with the monarch walking on the banks of the river Gomati with a little girl, Hashi. The river is red with blood, and Hashi asks "Eto rokto keno? (Why is there so much blood?)". Soon afterward, Hashi dies of a fever, repeating the question until her last breath. A shaken Gobinda Manikya bans animal sacrifice at the Bhubaneswari Temple (which now lies in ruins in south Tripura). Raghupati conspires with the king's enemies, and Gobinda Manikya is dethroned in a coup with the help of the Mughals, and replaced by his stepbrother Nakshatra Rai. Gobinda Manikya eventually regains his position with the help of the Arakans.

Which of the following is true according to the ruling of the court?

I. Religious practice sometimes override provisions of the Prevention of Cruelty to Animals Act, 1960.
II. The practice of Sacrificing animals and birds cannot be protected under Article 25(1) of the Constitution. Freedom of religion is subject to the rigours of public order, morality, and health.
III. The court ruled that the tradition of sacrificing animals, lacks the essence of economic, commercial, political or secular character.
A) I & II   B) I & III   ✔C) II & III   D) All of the above   E) None of the above

Explanation:-   *The court ruled that the tradition of sacrificing animals "lacks the essence of economic, commercial, political or secular character" and cannot be protected under Article 25(1) of the Constitution (Subhas Bhattacharjee vs The State of Tripura and Others). Freedom of religion is subject to the rigours of public order, morality, and health, it said. Also, animal sacrifice in a temple is violative of Article 21, the court said, adding that religious practice cannot override provisions of the Prevention of Cruelty to Animals Act, 1960.*

Question No. : 85

How did Gobinda Manikya lose his throne?

A) Due to the death of Hashi.   ✔B) Raghupati conspires with the king's enemies.   C) Arakans attacked Manikya kingdom
D) He died of a fever   E) None of the above

Explanation:-   *Maharaja Gobinda Manikya (1660-61 and 1667-76) to ban animal sacrifice, which angered the orthodoxy led by the head priest or Chantai, Raghupati. The novel begins with the monarch walking on the banks of the river Gomati with a little girl, Hashi. The river is red with blood, and Hashi asks "Eto rokto keno? (Why is there so much blood?)". Soon afterward, Hashi dies of a fever, repeating the question until her last breath. A shaken Gobinda Manikya bans animal sacrifice at the Bhubaneswari Temple (which now lies in ruins in south Tripura). Raghupati conspires with the king's enemies, and Gobinda Manikya is dethroned*

in a coup with the help of the Mughals, and replaced by his stepbrother Nakshatra Rai. Gobinda Manikya eventually regains his position with the help of the Arakans.

Question No. : 86

Which of the following is not true according to the passage?

A) Tripureswari Devi temple in Udaipur, and the Chaturdash Devta temple were founded by the Manikyas.
✓B) The government wanted them to cease the "religious beliefs" to epitomize the verdict of Tripura High Court through its actions.
C) Tripura High Court Bench of Chief Justice Sanjay Karol and Justice Arindam Lodh banned the sacrifice of animals and birds in temples of the state.
D) Animal sacrifice has been happening for at least 500 years in Tripura.   E) None of the above

Explanation:-   State Law & Parliamentary Affairs Minister Ratan Lal Nath told reporters Monday that the government did not want to "hurt anyone's religious beliefs" through its actions.

Question No. : 87

Which of the following is/are true according to Tripura's Merger Agreement?

I. Worship at Mata Tripureswari and other temples to be continued in the traditional manner.
II. Animal sacrifice was part of tantric worship.
III. It prohibited the practice of animal sacrifice during Bakr Eid.

✓A) I & II   B) I & III   C) Only I   D) All of the above   E) None of the above

Explanation:-   The government argued that under the terms of Tripura's Merger Agreement with the Indian Dominion, worship at Mata Tripureswari and other temples should continue in the traditional manner. Animal sacrifice was part of tantric worship, and the petition had been filed only to "disturb the Hindu sentiment and presumably by anti-Hindu elements", because it did not challenge the practice of animal sacrifice during Bakr Eid, the government said. The court rejected this argument as "preposterous": "The State cannot be allowed to take such a stand, more so, in the absence of any material, substantiating the same".

Question No. : 88

Defy

A) Comply   B) Thwart   C) Defer   D) Deterrence   ✓E) None of the above.

Explanation:-   'Defy' means openly resist or refuse to obey.
'Comply' means (of a person or group) act in accordance with a wish or command.
'Thwart' means prevent (someone) from accomplishing something.
'Defer' means put off (an action or event) to a later time; postpone.
'Deterrence' means the action of discouraging an action or event through instilling doubt or fear of the consequences.

Question No. : 89

Impede

A) Culpable   B) Hinder   ✓C) Facilitate   D) Revoke   E) None of the above.

Explanation:-   'Impede' means delay or prevent (someone or something) by obstructing them; hinder.
'Culpable' means deserving blame.
'Hinder' means create difficulties for (someone or something), resulting in delay or obstruction.
'Facilitate' means make (an action or process) easy or easier.
'Revoke' means put an end to the validity or operation of (a decree, decision, or promise).

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

Question No. : 90

It's not that the management is not aware of few false bills here and there, but they don't call it because it would expose many and_____.

A) Would be a blessing in disguise   ✔B) Stir up a hornets' nest   C) Beating around the bush   D) Would bite the bullet
E) None of these

Explanation:-   *"Stir up a hornets' nest" is the most appropriate idiom that makes the sentence contextually meaningful. It means "Provoke trouble". Hence, option (b) is the right answer choice.*
A blessing in disguise- a good thing that seemed bad at first
Beating around the bush- Avoid saying what you mean, usually because it is uncomfortable
Bite the bullet-To get something over with because it is inevitable

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

Question No. : 91

With banks baying for his blood over default in payments, he has his _____.

✔A) Back against the wall   B) Called it a day   C) Got out of hand   D) Get his act together   E) None of these

Explanation:-   *"Back against the wall" is the most appropriate idiom that makes the sentence contextually meaningful. It means "Be in a difficult situation from where escape is difficult". Hence, option (a) is the right answer choice.*
Call it a day- Stop working on something
Get out of hand- Get out of control
Get (one's) act together- Work better or leave

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

Question No. : 92

Max fell_____ in love with her colleague and wants to marry her.

A) Hang in there   B) Let himself off the hook   C) Got back to the drawing board   ✔D) Head over heels
E) None of these

Explanation:-   *"Head over heels" is the most appropriate idiom that makes the sentence contextually meaningful. It means that "If you're head over heels, you're completely in love." Hence, option (d) is the right answer choice.*
Hang in there-Don't give up
Let someone off the hook- To not hold someone responsible for something Go back to the drawing board- Start over

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

Question No. : 93

The increase in customs duty by the government has _____ of those car companies who were importing most of their car parts.

A) Missed the boat   B) Pulled their leg   ✔C) Upset the applecart   D) Made a long story short   E) None of these

Explanation:-   *"Upset (someone's) applecart" is the most appropriate idiom that makes the sentence contextually meaningful. It means that "If you upset someone's applecart, you do something that causes a plan to go wrong." Hence, option (c) is the right answer choice.*
Miss the boat- It's too late
Pull someone's leg- To joke with someone Make a long story short- Tell something briefly

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

Question No. : 94

The heavy overnight rain_____ to play cricket next morning.
A) Spoken of the devil   ✔B) Spoilt our plan   C) Under the weather   D) On the ball   E) None of these

Explanation:-   *"Spoil (someone's) plan is the most appropriate idiom that makes the sentence contextually meaningful. It means "To ruin someone's plans." Hence, option (b) is the right answer choice. Under the weather- Sick*
On the ball- Doing a good job
Speak of the devil- The person we were just talking about showed up!

DIRECTION *for the question:* *In the question below, two sentences are given. These two sentences are to be combined into a single sentence without changing their meaning. Three probable starters of the so combined sentence are given which are denoted by (A), (B) and (C). Any one or more or none of them may be correct. Find out the correct starter(s), if any, and accordingly select your answer from among the given five answer choices.*

Question No. : 95

(I) RBI placed the financially troubled Yes Bank under a moratorium.
(II) It announced a draft 'Scheme of Reconstruction' that entails the SBI investing capital to acquire 49% stake in the restructured private lender.

(i) After RBI placed........
(ii) Post placing the........
(iii) Since RBI announced........

A) Only (ii)   B) Both (i) and (iii)   C) Only (i)   D) Only (iii)   ✔E) Both (ii) and (i)

Explanation:-   *Both (i) and (ii) starters can be used to form a single sentence from the two sentences, implying the same meaning as expressed in the statement sentences. The sentences thus formed are:*
(i)After RBI placed the financially troubled Yes Bank under a moratorium, it announced a draft 'Scheme of Reconstruction' that entails the SBI investing capital to acquire 49% stake in the restructured private lender (ii)Post placing the financially troubled Yes Bank under a moratorium, RBI announced a draft 'Scheme of Reconstruction' that entails the SBI investing capital to acquire 49% stake in the restructured private lender.
Hence, option (e) is the right answer choice.

DIRECTION *for the question:* *In the question below, two sentences are given. These two sentences are to be combined into a single sentence without changing their meaning. Three probable starters of the so combined sentence are given which are denoted by (A), (B) and (C). Any one or more or none of them may be correct. Find out the correct starter(s), if any, and accordingly select your answer from among the given five answer choices.*

Question No. : 96

(I) The play features outdated perspectives on race and religion.
(II) Its portrayal of female characters was far ahead of its time.

(i) Though the play ....
(ii) Supposing that the............
 (iii) Despite featuring outdated........

A) Only (ii)   ✔B) Both (i) and (iii)   C) Only (i)   D) Only (iii)   E) Both (ii) and (i)

Explanation:-   *Both (i) and (iii) starters can be used to form a single sentence from the two sentences, implying the same meaning as expressed in the statement sentences. The sentences thus formed are:*
(i)Though the play features outdated perspectives on race and religion, its portrayal of female characters was far ahead of its time.
(iii)Despite featuring outdated perspectives on race and religion, the play's portrayal of female characters was far ahead of its time.
Hence, option (b) is the right answer choice.

DIRECTION *for the question:* *In the question below, two sentences are given. These two sentences are to be combined into a single sentence without changing their meaning. Three probable starters of the so combined sentence are given which are denoted by (A), (B) and (C). Any one or more or none of them may be correct. Find out the correct starter(s), if any, and accordingly select your answer from among the given five answer choices.*

Question No. : 97

(I) It may be necessary to get rid of colonial-era conventions to make administration more efficient.
(II) However, It is equally important to think through the reforms and work out a viable sequence.

(i) Getting rid of colonial-era...
(ii) To make administration...
(iii) As it is equally important...
A) Only (i) is correct   B) Only (ii) is correct   C) Only (iii) is correct   ✓D) Both (i) and (ii) are correct   E) All are correct

Explanation:-   *Both (i) and (ii) starters can be used to form a single sentence from the two sentences, implying the same meaning as expressed in the statement sentences. The sentences thus formed are:*
(i)Getting rid of colonial-era conventions may be necessary to make administration more efficient, however it is equally important to think through the reforms and work out a viable sequence.
(ii) To make administration more efficient, it may be necessary to get rid of colonial-era conventions, however it is equally important to think through the reforms and work out a viable sequence.

DIRECTION *for the question:* *In the question, there are two statements which can be combined into a single statement in a number of different ways without changing their meaning. Below them are given three probable starters (A), (B) and (C) of such a combined sentence. One, two, three or none of them may be correct. Decide upon which is/are correct, if any and mark the option which denotes your answer. If none of the three starters is suitable mark, 'None' as your answer.*

Question No. : 98

(I) A diversified diet that meets all nutritional requirements is difficult to provide.
(II) Fortification of food is relied upon by many countries to prevent malnutrition.

(i) Provided a diversified diet...
(ii) Since a diversified diet...
(iii) As it is difficult to provide...

A) Only (i) is correct   B) Only (ii) is correct   C) Only (iii) is correct   ✓D) Both (ii) and (iii) are correct   E) All are correct

Explanation:-   *Both (ii) and (iii) starters can be used to form a single sentence from the two sentences, implying the same meaning as expressed in the statement sentences. The sentences thus formed are:*
(ii) Since a diversified diet that meets all nutritional requirements is difficult to provide, fortification of food is relied upon by many countries to prevent malnutrition.
(iii) As it is difficult to provide a diversified diet that meets all nutritional requirements, fortification of food is relied upon by many countries to prevent malnutrition.
Hence, option (d) is the right answer choice.

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

Question No. : 99

The recently_____ peace deal between the United States and the Taliban is unlikely to bring _____to Afghanistan, is geopolitically disadvantageous for India, and has serious _____ for our national security.

A) accretion, animosity, problems   ✓B) negotiated, peace, implications   C) bonding, treaty, advent
D) mark, landscape, society   E) entry, solvent, amalgamation

Explanation:-   *The option (b) is the most viable option which fits grammatically and contextually correct. So our correct answer choice is option (b).*
Accretion- growth or increase by the gradual accumulation of additional layers or matter. Animosity-strong hostility.
Amalgamation - the action, process, or result of combining or uniting.

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

Question No. : 100

Just one year later, the novel coronavirus_____ the Chinese government to issue the largest _____order in human history, affecting an _____45 million people.

✓A) forced, quarantine, estimated   B) vitiated, errors, proclaimed   C) ablution, havoc, endangered
D) caused, penury, effect   E) saddle, whip, assimilate

Explanation:-   The option (a) is the most viable option which fits grammatically and contextually correct. So our correct answer choice is option (a).
Quarantine - a state, period, or place of isolation in which people or animals that have arrived from elsewhere or been exposed to infectious or contagious disease are placed.
Vitiated - spoil or impair the quality or efficiency of. Proclaimed - announce officially or publicly.
Ablution- an act of washing oneself. Endangered- seriously at risk of extinction.
Saddle- burden (someone) with an onerous responsibility or task. Whip- move fast or suddenly in a specified direction.
Penury- the state of being very poor; extreme poverty.

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

Question No. : 101

(I) Our_____ sea lion has been safely transported back to the Columbia River.
(II) Many religious texts legitimise keeping _____ women under control through the use of physical violence.

A) Register   ✓B) Wayward   C) Perquisite   D) Authentic   E) Concordant

Explanation:-   "Wayward" fits into both the blanks appropriately adding a proper and logical meaning to the sentences. It means difficult to control or predict because of wilful or perverse behaviour. Hence, option (b) is the right answer choice.
Perquisite- a benefit which one enjoys or is entitled to on account of one's job or position. Concordant- in agreement; consistent.

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

Question No. : 102

(I) Her charisma was kind of _____ under the mask and she was relying on an old-school state presence
(II) The song slowly faded away, until all that remained was the _____ sounds of the soldiers and the occasional neighs from the horses.

A) Priority   B) Dissuaded   C) Ineptitude   ✓D) Muffled   E) Sleight

Explanation:-   "Muffled" fits into both the blanks appropriately adding a proper and logical meaning to the sentences. It means (of a sound) not loud because of being obstructed in some way; muted. Hence, option (d) is the right answer choice.
Dissuaded- persuade (someone) not to take a particular course of action. Ineptitude- lack of skill or ability.
Sleight- the use of dexterity or cunning, especially so as to deceive.

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

Question No. : 103

(A)Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.

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

A) E ✓B) A C) B D) F E) C

Explanation:- *The correct sequence is given below.*
(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(A) Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.
(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.

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

Question No. : 104

(A)Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.

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

A) A B) F ✓C) B D) E E) C

Explanation:- *The correct sequence is given below.*
(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(A) Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.
(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.

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

Question No. : 105

(A)Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.

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

A) B B) E C) A D) F ✓E) C

Explanation:- *The correct sequence is given below.*

(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(A) Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.
(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.

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

Question No. : 106

(A)Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.

Which of the group of sentences in the rearranged paragraph are consecutive?

A) B-C   B) A-C   C) E-D   D) E-A   ✔E) E-B

Explanation:- *The correct sequence is given below.*
(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(A) Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.
(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.

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

Question No. : 107

(A)Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.

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

A) C   ✔B) F   C) B   D) A   E) E

Explanation:- *The correct sequence is given below.*
(D) Even as China's COVID-19 caseload wanes, the coronavirus has spread to at least 70 other countries.
(A) Two new infections were reported in India this week in Delhi and Hyderabad taking the total number of those afflicted by the virus to five.

(F) These patients seem to have contracted the flu outside the country of its origin, the patient from Delhi had travelled to Italy.
(C) While the one in Hyderabad had returned last week from Dubai where 19 coronavirus cases have been reported.
(E) The country's health officials are taking precautions to make sure that these patients do not pass on the infection to others.
(B) The government has also extended the screening of passengers to those arriving in India from Italy and Iran to further strengthen surveillance.

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

Question No. : 108

The banking industry <u>had begun already</u> incorporating blockchain.

A) began already   ✔B) has already begun   C) have already begun   D) will began already   E) no replacement required

Explanation:- *To make the sentence grammatically correct, replace the phrase given in bold with [has already begun+. Here, "already" is an adverb which should be placed in the mid position in the sentence i.e., after the first auxiliary verb or after a modal verb when more than one verb is present. Moreover, the subject [The banking industry] is singular, therefore, the verb associated with the subject should also be in its singular form. Hence, option (b) becomes the most suitable answer choice.*

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

Question No. : 109

Thoughts are helpful in the field of science, <u>rather thinking cannot be given</u> the touch of experience of the supreme truth, the inner core.

A) however, thinking merely must not give   B) since thinking merely would not give   C) yet mere thanking should not
✔D) but mere thinking cannot give   E) no replacement required

Explanation:- *The sentence can be made grammatically correct and contextually meaningful by replacing the phrase given in bold by "but mere thinking cannot give". "rather" is an adverb which is used to indicate one's preference in a particular matter. However, there's no comparison provided. Therefore, the correct conjunction to provide the sentence a contextual meaning should be "but" or "yet". The conjunction "but" is used to introduce a phrase or clause contrasting with what has already been mentioned. However, option*
(b) is contextually incorrect. Hence, option (d) becomes the most viable answer choice.

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

Question No. : 110

Predicting how an industry will fare further down the line <u>has never been more difficult</u> because of the swift changes brought on by technology—and with such swift changes comes uncertainty.

A) have been more difficult   B) is most difficult   C) have never been difficult   D) had not become more difficult
✔E) no replacement required

Explanation:- *The given sentence is grammatically correct and contextually meaningful. As, the phrase given in bold completely justifies the grammatical and contextual structure of the sentence, it does not require any correction or replacement. Hence, option (e) becomes the most suitable answer choice.*

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

needed, choose the option "No improvement required".

Question No. : 111

As we settle into another long summer, <u>I am finding for first time</u> I am ready for the holidays.
A) me finding for the first time   B) I did found for the first time   ✓C) I find that for the first time
D) I have found that for first time   E) no replacement required

Explanation:-   To make the sentence grammatically correct, replace the phrase given in bold by [I find that for the first time+. It is to be noted that the definite article "the" is used before ordinal numbers such as 'first', 'second', 'third' etc. Moreover, the correct phrase with no grammatical errors is option (c) which is making the sentence contextually correct. Thus, it becomes the most suitable answer choice

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

Question No. : 112

The hospital <u>restrict the number of visitor</u> who can enter the intensive care unit.

A) restricting the number of visitor   ✓B) restricts the number of visitors   C) restricted the number for visitors
D) restriction for number of visitors   E) no replacement required

*Explanation:-   The correct phrase that should replace the incorrect phrase in bold should be "restricts the number of visitors". It is to be noted that the subject *the hospital+ in the sentence is singular which should be associated with the singular verb, hence the correct form of verb should be "restricts". Moreover, the expression "the number of" always takes a plural noun hence, option (b) becomes the most viable choice to replace the phrase given in bold to make the sentence grammatically correct.*

DIRECTIONS *for the question*: *In each of the following questions below, four sentences are given which may contain grammatical or contextual errors. You have to choose the one which contains any error. If there is no error in all the four sentences, mark (e) i.e, "All are correct" as your answer.*

Question No. : 113

✓A) The response rate to RTI requests have also slowed down.
B) The JSP, therefore, can advance the objective of transparency.
C) The RTI Act had dealt with the citizen's right to know about public information.
D) There is no need for anyone to take recourse to the RTI Act and await a response.   E) All are correct

Explanation:-   Statement (a) has error in it. 'has' will be used instead of 'have' because 'rate' is in singular form.

DIRECTIONS *for the question*: *In each of the following questions below, four sentences are given which may contain grammatical or contextual errors. You have to choose the one which contains any error. If there is no error in all the four sentences, mark (e) i.e, "All are correct" as your answer.*

Question No. : 114

A) If we show an awareness of our own political leanings, it makes us more trustworthy
✓B) Journalism must retain its ability on scrutinize the state rather than becoming a cheerleader
C) The government has been relying almost entirely on providing fiscal relief in the form of tax cuts.
D) To incorporate the unorganized sector, data from alternative sources need to be used.   E) All are correct

Explanation:-   Statement (b) has an error of preposition here. Instead of 'on', 'to' will be used

DIRECTIONS *for the question*: *In each of the following questions below, four sentences are given which may contain grammatical or contextual errors. You have to choose the one which contains any error. If there is no error in all the four sentences,*

mark (e) i.e, "All are correct" as your answer.

Question No. : 115
A) The implicit assumption is that the organized sector can be a proxy for the unorganized sector.
B) While RTI filings have increased exponentially, RTI-activism has become part and parcel of civil society.
✔C) Higher judiciary must do its duty as guardians of the citizens' constitutional rights'.
D) Only certain specific projects or initiatives are undertaken in 'mission mode'.   E) All are correct

Explanation:-   Here, in statement (c), there is an incorrect usage of apostrophe 's' in "rights".

DIRECTIONS *for the question*: In each of the following questions below, four sentences are given which may contain grammatical or contextual errors. You have to choose the one which contains any error. If there is no error in all the four sentences, mark (e) i.e, "All are correct" as your answer.

Question No. : 116

A) The train has provided a trouble-free performance in the last six months.
B) The unraveling had commenced even before Train 18's inaugural run as Vande Bharat Express.
C) It is futile to expect the techno-bureaucracy of the Indian Railways to reform itself.
✔D) The Centre made amendment in proviso to Article 370(3) as a part off a well-conceived strategy.   E) All are correct

Explanation:-   Here, 'off' will be replaced by 'of' because 'off ' is making the sentence contextually meaningless and grammatically incorrect.

DIRECTIONS *for the question*: Solve the question and mark the appropriate answer.

Question No. : 117

DIRECTIONS *for the question*: A connector is given along with four statements below. Identify the statements that can be combined together in a single statement using the given connector.

EVEN THOUGH

(A) The Naga rebels have climbed down from their demand for full independence.
(B) Chief Minister has announced in the house that school students will be mandatorily taught about the constitution.
(C) The public transportation and travel restriction could be affecting upward of 35 million people in China.
(D) Naga Rebels have persisted with the demand for Nagalim, a territorial entity much larger than the present state of Nagaland.

A) Only C-D   B) Only B-D   C) Only A-B   ✔D) Only A-D   E) None of these

Explanation:-   EVEN THOUGH
We use "even though" to show an action happening even after there seem to be constraints for it to happen.
Sentences A and D show contrast to each other. The sentence formed is "Even though the Naga rebels have climbed down from their demand for full independence, they have persisted with the demand for Nagalim, a territorial entity much larger than the present state of Nagaland." Option D – Only A-D is the answer.

DIRECTIONS *for the question*: Solve the question and mark the appropriate answer.

Question No. : 118

DIRECTIONS *for the question*: A connector is given along with four statements below. Identify the statements that can be combined together in a single statement using the given connector.

ALTHOUGH

(A) The government is separately considering imposing quality standard on import as less than 10% of tariff lines regulated for

safety.
(B) The budget should make sure that such delays do not occur.
(C) The growth performance of India, Bangladesh and Vietnam was most impressive during the past quarter century.
(D) India and Bangladesh did not match the rest of Asia in slow social progress.
 ✓A) Only C-D   B) Only B-D   C) Only A-B   D) Both A-C and B-D   E) None of these

Explanation:- ALTHOUGH
"Although" is used to a contrast between two sentences. Sentence C shows impressive growth performance of India, Bangladesh and Vietnam while Sentence D shows contrast to it showing India and Bangladesh not matching in the slow social progress. The sentence formed is "Although the growth performance of India, Bangladesh and Vietnam was most impressive during the past quarter century, India and Bangladesh did not match the rest of Asia in slow social progress." Option A – Only C-D is the answer.

DIRECTIONS *for the question:* Solve the question and mark the appropriate answer.

Question No. : 119

DIRECTIONS *for the question:* A connector is given along with four statements below. Identify the statements that can be combined together in a single statement using the given connector.

WHILE

(A) The predecessors of National Register of Citizens were counting "residents" rather than "citizens".
(B) The objective of this latest initiative is to count citizens – specifically to sift and sort citizens from noncitizens.
(C) The accounting for the number of Rs 1000 and Rs 500 notes not exchanged or deposited in the banks is an issue up for debate.
(D) Modi's ruling party has also asked the government to increase duties on essential on non-essential items to boost local manufacturing.

A) Only C-D   B) Only B-C   ✓C) Only A-B   D) Both A-C and B-D   E) None of these

Explanation:- WHILE
'While' is used to show an action happening at the same time of another action. The combination of sentence A and B shows two actions happening at the same time i.e. residents were being counted instead of citizens, the objective was to count citizens and sort them from non citizens. The sentence formed is "While the predecessors of National Register of Citizens were counting "residents" rather than "citizens", the objective of this latest initiative is to count citizens – specifically to sift and sort citizens from noncitizens." Option C – Only A-B is the answer.

DIRECTIONS *for the question:* Solve the question and mark the appropriate answer.

Question No. : 120

DIRECTIONS *for the question:* A connector is given along with four statements below. Identify the statements that can be combined together in a single statement using the given connector.

MOREOVER

(A) Obviously, no revolution can sustain on 70-year-old slogans.
(B) With appropriate corrective mechanisms, natural selection can favour cooperation.
(C) This struggle has also seen violent splits, ugly divisive tribalism, fratricidal feuds and untold sufferings.
(D) There is no apparent reason a higher intelligence will treat us any better than we treat animals bred for meat, fur and milk.

A) Only C-D   B) Only B-C   C) Only A-B   ✓D) Both A-C and B-D   E) None of these

Explanation:- MOREOVER
We use "moreover" to add information or to tell about an additional action happened to make more of an action. To add more information to the sentence A which shows sustainability of a revolution, sentence C shows more information to it. The sentence

formed is "Moreover to the fact that obviously, no revolution can sustain on 70-year-old slogans, this struggle has also seen violent splits, ugly divisive tribalism, fratricidal feuds and untold sufferings." Option D – Only A-C is the answer

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

Question No. : 121

The two PG operators, who were (A)/operating the ill-fated PG in (B)/Sector 32, were charged close to Rs 3 lakh (C)/from the students staying in the PG (D)

A) A   B) B   ✓C) C   D) D   E) E

Explanation:- *'charged' should be replaced by 'charging'. Hence, option (c) is the right answer choice.*

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

Question No. : 122

A butcher, who was annoyed by (A)/vegans 'naming their plant-based (B)/food after meat' has (C)/created a 'carrots' out of pork (D)

✓A) A   B) B   C) C   D) D   E) E

Explanation:- *'at' should be used in place of 'by'. Since, we are 'annoyed at something' or 'annoyed with someone'. Hence, option (a) is the right answer choice.*

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

Question No. : 123

Unfortunately, the mob were more (A)/organized than they expected (B)/as freshly reloaded guns (C)/began to fire at them (D)

✓A) A   B) B   C) C   D) D   E) E

Explanation:- *'mob' is a singular subject, singular verb will be used. 'was' should be used instead of 'were'. Hence, option (a) is the right answer choice.*

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

Question No. : 124

The place is always (A)/thronged by researchers (B)/and those making (C)/animal documentaries (D)

A) A   ✓B) B   C) C   D) D   E) E

Explanation:- *'thronged' is followed by 'with'. So, 'by' should be replaced with 'with'. Hence, option (b) is the right answer choice.*

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

Question No. : 125

Upon arrival, Deputies observed (A)/a residence engulfed by fire (B)/with local fire fighters engaged (C)/in fire suppression efforts.(D)

A) A   ✓B) B   C) C   D) D   E) E

Explanation:- *'in' should be used in place of 'by'. Since the preposition 'in' is used after 'engulfed'. Hence, option (b) is the right answer choice.*

Section : Quantitative Ability

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 126

In the given question, two quantities are given, one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option:

Train A cross a platform of length 520 meters and a man in 22.8 sec and 7.2 sec respectively.109/66

Quantity I – If train A cross train B running in same direction at 96 km/hr in 63 seconds then find the length of train B.
Quantity II – What is length of train C having speed of 90 km/hr and cross train A in 7.2 sec running in opposite direction.

A) Quantity I > Quantity II   B) Quantity I < Quantity II   C) Quantity I ≥ Quantity II   D) Quantity I ≤ Quantity II
✔E) Quantity I = Quantity II or no relation

Explanation:- *Let length of train A be ℓ meter*

$$\text{Speed of train A} = \frac{(\ell + 520)}{22.8}$$

Also train cross a man so,

$$\text{Speed of train A} = \frac{\ell}{7.2}$$

ATQ,

$$\frac{\ell}{7.2} = \frac{(\ell + 520)}{22.8}$$

22.8 ℓ - 7.2 ℓ = 3744
15.6 ℓ = 3744
ℓ = 240 meter

$$\text{Speed of train A} = \frac{(520 + 240)}{22.8}$$

$$= \frac{100}{3} \text{ m/s}$$

Quantity I -
Let length of train B 'b' meter

$$\left(\frac{100}{3} + 90 \times \frac{5}{18}\right) = \frac{240 + c}{7.2}$$

$$\frac{175}{3} = \frac{240 + c}{7.2}$$

1260=720 + 3c
C = 180 meter
Quantity I = Quantity II

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 127

Ratio of age of Bhavya & Veer three years ago was 7 : 8 and after six year it will be 10 : 11. Ankit is two years older than Bhavya, while Ayush is four years younger than that of Veer. The time when Bhavya and Veer completed their graduation, the ratio of their respective ages at that time was 20 : 23

Quantity I − Sum of age of Ankit & Ayush at the time when Bhavya & Veer respectively completed their graduation.

Quantity II − Average age of P, Q & R, two years hence will be 38 years and ratio of present age of Q & R be 16 : 9. P is 33 years old, ratio of age of R & T eight years hence will be 7 : 8. M is four years older than Q and ratio of present age of M & N is 13 : 14. Find average age of N & Q.

A) Quantity I > Quantity II   ✔B) Quantity I < Quantity II   C) Quantity I ≥ Quantity II   D) Quantity I ≤ Quantity II
E) Quantity I = Quantity II or no relation

Explanation:- *Let age of Bhavya & Veer three years ago was 7x & 8x respectively.*
Atq,
7x+9/ 8x+9 = 10/11
77x + 99 = 80x + 90
3x = 9
x = 3 years
Present age of Bhavya = 3 × 7 + 3 = 24 years
Present age of Veer = 3 × 8 + 3 = 27 years
Let Bhavya and Veer completed their graduation 'n years' before
24−n/27−n =20/23
552-23n = 540 − 20n
n = 4 years
Quantity I −
Age of Ankit at the time of Bhavya completed his graduation = 26 -4 = 22 years
Age of Ayush when Veer completed his graduation = 23 − 4 = 19 years
Required sum = 22 + 19 = 41 years
Quantity II →
Sum of present age of P, Q & R = 38 × 3 − 2 × 3 = 108 yrs
Let age of Q & R be 16y & 9y respectively
ATQ
33 + 16y + 9y = 108
25y = 75
y = 3years
Age of Q = 16 × 3 = 48 yrs
Age of R = 9 × 3 = 27 yrs
Eight years hence age of R = 27 + 8 = 35 yrs
Present age of T = 35/7 × 8 − 8 = 32 yrs
Age of M = 48 + 4 = 52 yrs
Age of N = 52/13 × 14= 56 yrs
Required average age of N & Q = 56+48/2 = 104/2 = 52 yrs
So, Quantity I < Quantity II

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 128

Length of body diagonal of a cube is 60√3 cm, if cube is melted and formed some smaller cubes with side of 4 cm each or cube is melted and formed some cuboids of each having length of 8 cm, width of 5 cm & height of 2 cm.

Quantity I − Find the difference between increase in total surface area of all smaller cubes with respect to original cube & increase in total surface area of all cuboids formed with respect to original cube (in m^2).

Quantity II − 3.16 m^2

✔A) Quantity I > Quantity II   B) Quantity I < Quantity II   C) Quantity I ≥ Quantity II   D) Quantity I ≤ Quantity II
E) Quantity I = Quantity II or no relation

Explanation:- *Body diagonal of cube = side ×√3*
60√3 = side × √3
Side = 60 cm

Volume of larger cube = 60 × 60 × 60 = 216000 cm³
Total surface area of larger cube = 6 × 60 × 60 = 21600 cm² = 2.16 m²
Volume of each smaller cube = 4 × 4 × 4 = 64 cm²

$$\text{Number of smaller cube formed} = \frac{216000}{64} = 3375$$

Volume of each cuboids having length of 8cm, width 5cm & height 2cm

$$= \frac{216000}{80} = 2700$$

Quantity I- Total surface are of all smaller cube = 3375 × 6 × 4 × 4
=324000 cm² = 32.4 cm²
Required difference = (35.64 -2.16) - (32.4 - 2.16)
= 33.48 - 30.24
=3.24 m²
Quantity II - 3.16 m²
So, Quantity I > Quantity II

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 129

A circle with center 'o' is circumscribed with an equilateral triangle ABC of side 24√3 cm109/66

Quantity I – Find the height of triangle (in cm).

Quantity II – Find the length of rectangle (in cm) having perimeter 120 cm and breadth equal to radius of circle.

A) Quantity I > Quantity II   B) Quantity I < Quantity II   C) Quantity I ≥ Quantity II   D) Quantity I ≤ Quantity II
✔E) Quantity I = Quantity II or no relation

Explanation:-   *Quantity I -*

$$\text{Height of equilateral triangle} = \frac{\sqrt{2}}{2} \times \text{side}$$

$$= \frac{\sqrt{3}}{2} \times 24\sqrt{3}$$

= 36
Quantity II

$$\text{Height of equilateral triangle} = \frac{\sqrt{2}}{2} \times \text{side}$$

$$= \frac{\sqrt{3}}{2} \times 24\sqrt{3}$$

= 36
Breadth of rectangle = 24 cm
Let length of rectangle be 1 cm
2 (1+24) = 120
1 = 36 cm
So, Quantity I = Quantity II

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 130

Quantity I: A man has two solid balls. Ratio between radius of first ball and second ball is 4 : 3. If man cut the second ball from middle then difference between total surface area of first ball and total surface area of a part of second ball is 1424.5 cm². Find radius of bigger ball?

Quantity II: Height of a cylindrical vessel is equal to side of a square, having area is 256 cm². If volume of cylindrical vessel is 22176 cm³ then find the radius of cylindrical vessel.

A) Quantity I > Quantity II ✓B) Quantity I < Quantity II   C) Quantity I ≥ Quantity II   D) Quantity I ≤ Quantity II
E) Quantity I = Quantity II or no relation

Explanation:-   *Quantity I -*
Let radius of first and second ball be 4r cm and 3r cm respectively
When man cut second ball, it become two hemispheres.
So,

$$4\pi r^2 - 3\pi r^2 = 1424.5 \text{ cm}^2$$

$$4 \times \frac{22}{7} \times (4r)^2 - 3 \times \frac{22}{7} \times (3r)^2 = 1424.5$$

$$r^2 = 12.25$$
$$r = 3.5 \text{ cm}$$

Radius of bigger ball = 4 × 3.5 = 14 cm
Quantity II -
Height of cylindrical vessel = side of square
Side of square = 16 cm
Given,

$$\pi r^2 h = 22176$$

$$\frac{22}{7} \times r^2 \times 16 = 22176 \text{ cm}^2$$

$$r^2 = \frac{22176 \times 7}{22 \times 16}$$

$$r^2 = 441$$
$$r = 21$$

So, Quantity I < Quantity II

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

Question No. : 131

110, 55, 55, 110, ? , 3520

A) 425   B) 380   ✓C) 440   D) None of these   E) 450
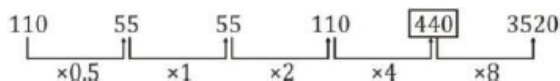
Explanation:-

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

Question No. : 132

8, 5, 7, 18, 80, ?

✓A) 656   B) None of these   C) 126   D) 642   E) 428
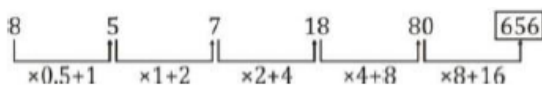
Explanation:-

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

Question No. : 133

11, 12, 17, 30, 59, ?

A) None of these   B) 125   ✓C) 120   D) 100   E) 110
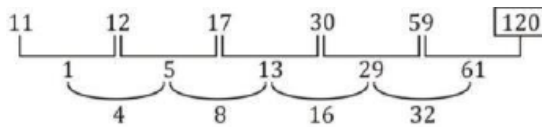
Explanation:-

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

Question No. : 134

1680, 1168, 1119, 903, ? , 814

A) None of these   B) 864   C) 814   ✓D) 878   E) 858
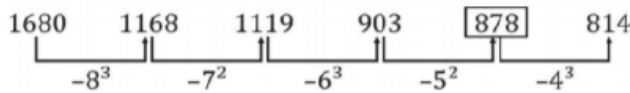
Explanation:-

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

Question No. : 135

? , 237, 366, 473, 547, 577

A) 101   B) 105   C) 78   ✓D) 97   E) None of these
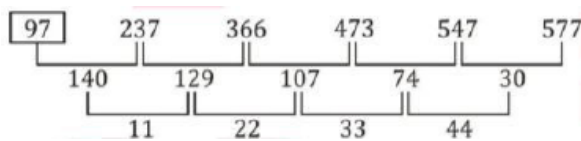
Explanation:-

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

Question No. : 136

A vessel contains 60 lit of pure honey. If m lit of pure honey is replaced with n lit of water then ratio of honey to water becomes 10: 1 and if 2m lit of pure honey were replaced by n lit of water, then ratio of honey to water becomes 8: 1. Find the value of 'm + n'?

A) 10   B) 12   ✓C) 15   D) 30   E) 20

According to first condition, Ratio of honey and water $= \dfrac{60 - m}{n} = \dfrac{10}{1}$

$\Rightarrow m + 10n = 60$ ....(1)

According to second condition, Ratio of honey and water $= \dfrac{60 - 2m}{n} = \dfrac{8}{1}$

Explanation:-
$\Rightarrow m + 4n = 30$ ....(2)
Solving eq. (1) and (2),
m = 10, n = 5
∴ m + n = 15

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

Question No. : 137

The price of a car is Rs. 3,25,000. It was insured to 85% of its price. The car was damaged completely in an accident and the insurance company paid 90% of the insurance. What was the difference between the price of the car and the amount received?
A) Rs. 32,500   B) Rs. 48,750   ✓C) Rs. 76,375   D) Rs. 81,250   E) Rs. 72,375

Explanation:- *Amount received*
= 3,25,000 × 85 /100 × 90/100
= Rs. 2,48,625
∴ Required difference = 76,375

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

Question No. : 138

Nitin borrowed some money at the rate of 6% p.a. for the first three years, 9% p.a. for the next five years and 13% p.a. for the period beyond eight years. If the total interest paid by him at the end of eleven years is Rs. 8160, how much money did he borrow?

✓A) Rs. 8000   B) Rs. 10,000   C) Rs. 12,000   D) Rs. 10,500   E) Rs. 14,000

Explanation:- *Let money borrowed by Nitin was Rs. P*
∴ P × 6 × 3 + P × 9 × 5 + P × 13 × 3 = 8160 × 100
⇒ P = Rs. 8000

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

Question No. : 139

In how many different ways can the letters of the word 'JUDGE' be arranged in such a way that the vowels always come together?

✓A) 48   B) 120   C) 124   D) 160   E) 240

Explanation:- *Total letters = 5 Vowels = 2 (U, E)*
∴ Total ways = 4! × 2!
= 48

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

Question No. : 140

A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?

A) 32   B) 48   ✓C) 64   D) 96   E) 128

Explanation:- *2W, 3B and 4R*
Total possible cases = (BWR, BWW, BRR, BBW, BBR, BBB) so required no. of ways
= 3C1 × 2C1 × 4C1 + 3C1 × 2C2 + 3C1 × 4C2 + 3C2 × 2C1 + 3C2 × 4C1 + 3C3
= 24 + 3 + 18 + 6 + 12 + 1
= 64

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

Question No. : 141

There are four types of telecommunications operator in Delhi (i.e. Airtel, Reliance Jio, Vodafone and BSNL) and each company works at two time slots i.e. Day shift and Night shift. Total employees work in Airtel at day shift is 2 times more than that in Airtel at night shift. While number of employees in BSNL at night shift is 40% of number of employees in Airtel at day shift and number of employees in BSNL at day shift and night shift is in the ratio of 5:2. Average of number of employees in Airtel at night shift and that of in BSNL at Day shift is 380. Number of employees in Reliance Jio at day shift and Vodafone in night shift is 50% more and 40% less than number of employees in Reliance Jio at Night Shift respectively. Total number of employees working (i.e in Day Shift and Night Shift) in Reliance Jio is 2500. While number of employees in Reliance Jio at night Shift and that of in Vodafone in Days shift are same.

If ratio of number of male to number of female working at night shift in Reliance Jio is 3 : 2, then find total number of male employees in Reliance Jio at night shift is what percent of total number of employee working at Day shift in Vodafone?
A) 33 1/3%   B) 35%   C) 30%   ✔D) 60%   E) 50%

Explanation:- *Let total number of employees in Airtel at night shift = a*
So, total number of employees in Airtel at day shift = 3a

$$\text{Total number of employees in BSNL at night shift} = \frac{40}{100} \times 3a = 1.2a$$

$$\text{So, total number of employees in BSNL at day shift} = \frac{5}{2} \times 1.2a = 3a$$

ATQ,
Average of total employee in Airtel at night shift and that of in BSNL at days shift

$$\frac{a+3a}{2} = 380$$
$$a = 190$$

let number of employees at night shift in Reliance Jio = b
so, number of employees in Reliance Jio at days shift = 1.5b
and number of employees in Vodafone at night shift = 0.6b
ATQ,
Total number of employees in Reliance Jio = 2500
b + 1.5b = 2500
b = 1000
and number of employees at day shift in Vodafone = 1000

Telecommunication operator	Day shift	Night shift
Airtel	570	190
Reliance Jio	1500	1000
Vodafone	1000	600
BSNL	570	228

Total number of male employees in Reliance Jio at night shift = 1000 × 3/5 = 600 Required percentage = 600/1000 × 100 = 60%

Question No. : 142

There are four types of telecommunications operator in Delhi (i.e. Airtel, Reliance Jio, Vodafone and BSNL) and each company works at two time slots i.e. Day shift and Night shift. Total employees work in Airtel at day shift is 2 times more than that in Airtel at night shift. While number of employees in BSNL at night shift is 40% of number of employees in Airtel at day shift and number of employees in BSNL at day shift and night shift is in the ratio of 5:2. Average of number of employees in Airtel at night shift and that of in BSNL at Day shift is 380. Number of employees in Reliance Jio at day shift and Vodafone in night shift is 50% more and 40% less than number of employees in Reliance Jio at Night Shift respectively. Total number of employees working (i.e in Day Shift and Night Shift) in Reliance Jio is 2500. While number of employees in Reliance Jio at night Shift and that of in Vodafone in Days shift are same.

Find the ratio of total number of employees working in Airtel at Day shift to total number of employees working in BSNL at Night shift?

A) 2 : 5   B) 5 : 7   C) 6 : 5   D) 5 : 3   ✔E) 5 : 2

Explanation:- *Let total number of employees in Airtel at night shift = a*
So, total number of employees in Airtel at day shift = 3a

$$\text{Total number of employees in BSNL at night shift} = \frac{40}{100} \times 3a = 1.2a$$

$$\text{So, total number of employees in BSNL at day shift} = \frac{5}{2} \times 1.2a = 3a$$

ATQ,

Average of total employee in Airtel at night shift and that of in BSNL at days shift

$$\frac{a + 3a}{2} = 380$$

$$a = 190$$

let number of employees at night shift in Reliance Jio = b

so, number of employees in Reliance Jio at days shift = 1.5b

and number of employees in Vodafone at night shift = 0.6b

ATQ,

Total number of employees in Reliance Jio = 2500

b + 1.5b = 2500

b = 1000

and number of employees at day shift in Vodafone = 1000

Telecommunication operator	Day shift	Night shift
Airtel	570	190
Reliance Jio	1500	1000
Vodafone	1000	600
BSNL	570	228

Required ratio = 570/228 = 5 : 2

Question No. : 143

There are four types of telecommunications operator in Delhi (i.e. Airtel, Reliance Jio, Vodafone and BSNL) and each company works at two time slots i.e. Day shift and Night shift. Total employees work in Airtel at day shift is 2 times more than that in Airtel at night shift. While number of employees in BSNL at night shift is 40% of number of employees in Airtel at day shift and number of employees in BSNL at day shift and night shift is in the ratio of 5:2. Average of number of employees in Airtel at night shift and that of in BSNL at Day shift is 380. Number of employees in Reliance Jio at day shift and Vodafone in night shift is 50% more and 40% less than number of employees in Reliance Jio at Night Shift respectively. Total number of employees working (i.e in Day Shift and Night Shift) in Reliance Jio is 2500. While number of employees in Reliance Jio at night Shift and that of in Vodafone in Days shift are same.

Total number of employees working at Day shift in BSNL is what percent more/less than total number of employees at night shift in Reliance Jio?

A) 35%   ✔B) 43%   C) 51%   D) 47%   E) 59%

Explanation:-   Let total number of employees in Airtel at night shift = a

So, total number of employees in Airtel at day shift = 3a

$$\text{Total number of employees in BSNL at night shift} = \frac{40}{100} \times 3a = 1.2a$$

$$\text{So, total number of employees in BSNL at day shift} = \frac{5}{2} \times 1.2a = 3a$$

ATQ,

Average of total employee in Airtel at night shift and that of in BSNL at days shift

$$\frac{a + 3a}{2} = 380$$

$$a = 190$$

let number of employees at night shift in Reliance Jio = b

so, number of employees in Reliance Jio at days shift = 1.5b

and number of employees in Vodafone at night shift = 0.6b

ATQ,

Total number of employees in Reliance Jio = 2500

b + 1.5b = 2500

b = 1000

and number of employees at day shift in Vodafone = 1000

Telecommunication operator	Day shift	Night shift

Airtel	570	190
Reliance Jio	1500	1000
Vodafone	1000	600
BSNL	570	228

Required percentage = 1000−570/ 1000 × 100 = 430/ 1000 × 100 = 43%

Question No. : 144

There are four types of telecommunications operator in Delhi (i.e. Airtel, Reliance Jio, Vodafone and BSNL) and each company works at two time slots i.e. Day shift and Night shift. Total employees work in Airtel at day shift is 2 times more than that in Airtel at night shift. While number of employees in BSNL at night shift is 40% of number of employees in Airtel at day shift and number of employees in BSNL at day shift and night shift is in the ratio of 5:2. Average of number of employees in Airtel at night shift and that of in BSNL at Day shift is 380. Number of employees in Reliance Jio at day shift and Vodafone in night shift is 50% more and 40% less than number of employees in Reliance Jio at Night Shift respectively. Total number of employees working (i.e in Day Shift and Night Shift) in Reliance Jio is 2500. While number of employees in Reliance Jio at night Shift and that of in Vodafone in Days shift are same.

Find the average number of employees working at each shift in Reliance Jio and Vodafone?

A) 980   B) 1080   ✓C) 1025   D) 890   E) 1060

Explanation:- *Let total number of employees in Airtel at night shift = a*
So, total number of employees in Airtel at day shift = 3a

Total number of employees in BSNL at night shift $= \dfrac{40}{100} \times 3a = 1.2a$

So, total number of employees in BSNL at day shift $= \dfrac{5}{2} \times 1.2a = 3a$

ATQ,
Average of total employee in Airtel at night shift and that of in BSNL at days shift

$\dfrac{a + 3a}{2} = 380$
$a = 190$

let number of employees at night shift in Reliance Jio = b
so, number of employees in Reliance Jio at days shift = 1.5b
and number of employees in Vodafone at night shift = 0.6b
ATQ,
Total number of employees in Reliance Jio = 2500
b + 1.5b = 2500
b = 1000
and number of employees at day shift in Vodafone = 1000

Telecommunication operator	Day shift	Night shift
Airtel	570	190
Reliance Jio	1500	1000
Vodafone	1000	600
BSNL	570	228

Required average $= \dfrac{1500+1000+1000+600}{4} = 4100/ 4 = 1025$

Question No. : 145

There are four types of telecommunications operator in Delhi (i.e. Airtel, Reliance Jio, Vodafone and BSNL) and each company works at two time slots i.e. Day shift and Night shift. Total employees work in Airtel at day shift is 2 times more than that in Airtel at night shift. While number of employees in BSNL at night shift is 40% of number of employees in Airtel at day shift and number of employees in BSNL at day shift and night shift is in the ratio of 5:2. Average of number of employees in Airtel at night shift and that of in BSNL at Day shift is 380. Number of employees in Reliance Jio at day shift and Vodafone in night shift is 50% more and 40% less than number of employees in Reliance Jio at Night Shift respectively. Total number of employees working (i.e in Day Shift and Night Shift) in Reliance Jio is 2500. While number of employees in Reliance Jio at night Shift and that of in Vodafone in Days shift are same.

Find the difference between the largest number of employees worked at Days shift and 2nd Smallest number of employees at night shift?

✓A) 1272   B) 1428   C) 1528   D) 980   E) 1724

Explanation:- *Let total number of employees in Airtel at night shift = a*
So, total number of employees in Airtel at day shift = 3a

$$\text{Total number of employees in BSNL at night shift} = \frac{40}{100} \times 3a = 1.2a$$

$$\text{So, total number of employees in BSNL at day shift} = \frac{5}{2} \times 1.2a = 3a$$

ATQ,
Average of total employee in Airtel at night shift and that of in BSNL at days shift

$$\frac{a + 3a}{2} = 380$$
$$a = 190$$

let number of employees at night shift in Reliance Jio = b
so, number of employees in Reliance Jio at days shift = 1.5b
and number of employees in Vodafone at night shift = 0.6b
ATQ,
Total number of employees in Reliance Jio = 2500
b + 1.5b = 2500
b = 1000
and number of employees at day shift in Vodafone = 1000

Telecommunication operator	Day shift	Night shift
Airtel	570	190
Reliance Jio	1500	1000
Vodafone	1000	600
BSNL	570	228

Required Difference = 1500 – 228

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

Question No. : 146

$(?)^2$ + 17.93% of 4249.9 + 14.9% of 440 = $(9.9)^3$

A) 19   ✓B) 13   C) 8   D) 21   E) 23

$$(?)^2 + \frac{18}{100} \times 4250 + \frac{15}{100} \times 440 \approx (10)^3$$
$$(?)^2 \approx 1000 - 831$$
$$(?)^2 \approx 169$$

Explanation:- $? \approx 13$

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

Question No. : 147

575.9/? + 274.87% *of* 495.8 + $\sqrt{255.9}$ = 25.009% *of* 5583.9

A) 24   B) 28   C) 48   D) 44   ✓E) None of these

Explanation:-   *576/? +275/100 × 496 + √256 ≈ 25/100 × 5584*
576/? + 1364 + 16 ≈ 1396
576/?≈ 1396 – 1380

? ≈576/16
? ≈ 36

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

Question No. : 148

$$\sqrt[3]{6858.9} \times 35.8 + ? = (28.97)^2 - 40.93$$

A) 126   B) 108   C) 122   ✓D) 116   E) 136

Explanation:- $\sqrt[3]{6859} \times 36 + ? \approx (29)^2 - 41$
$19 \times 36 + ? = 841 - 41$
? = 800 - 684
? = 116

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

Question No. : 149

? % of 5199.87 − (37.93)² + (15.9)² = (35.91)² - 39.9

A) 37   B) 40   C) 56   D) 60   ✓E) 47

Explanation:- *?/100 × 5200 − (38)2 + (16)2 ≈ (36)2 − 40*
52×? = 1256 + 1188
52×? = 2444
? = 2444/52
? = 47

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

Question No. : 150

156.02% of 450 + 133.01% of 599.98 = 375.02% of ?

A) 300   B) 425   C) 475   D) 400   ✓E) 525

Explanation:- *156/100 × 450 + 133/100 × 600 ≈ 375/100 ×?*
$\frac{702 + 798}{3.75} = ?$
? = 1500/3.75
? =400

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 151

I. $x^2 − 8\sqrt{3}x + 45 = 0$

II. $y^2 − \sqrt{2}y − 24 = 0$

A) if x > y   B) if x ≥ y   C) if x < y   D) if x ≤ y   ✓E) if x = y or no relation can be established between x and y.

$$x^2 - 5\sqrt{3}x - 3\sqrt{3}x + 45 = 0$$
$$x(x - 5\sqrt{3}) - 3\sqrt{3}(x - 5\sqrt{3}) = 0$$
$$x = 3\sqrt{3}, 5\sqrt{3}$$
$$y^2 - 4\sqrt{2}y + 3\sqrt{2}y - 24 = 0$$

Explanation:- $y(y - 4\sqrt{2}) + 3\sqrt{2}(y - 4\sqrt{2}) = 0, y = 4\sqrt{2}, -3\sqrt{2}$

No relation can be established.

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 152

I. $12x^2 - 17x + 6 = 0$

II. $20y^2 - 31y + 12 = 0$

A) if x > y   B) if x ≥ y   C) if x < y   ✓D) if x ≤ y   E) if x = y or no relation can be established between x and y.

$$12x^2 - 8x - 9x + 6 = 0$$
$$4x(3x - 2) - 3(3x - 2) = 0$$
$$x = \frac{2}{3}, \frac{3}{4}$$
$$20y^2 - 15y - 16y + 12 = 0$$
$$5y(4y - 3) - 4(4y - 3) = 0$$

Explanation:- $Y = \frac{4}{5}, \frac{3}{4}$

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 153

I. $35x^2 - 53x + 20 = 0$

II. $56y^2 - 97y + 42 = 0$

A) if x > y   B) if x ≥ y   ✓C) if x < y   D) if x ≤ y   E) if x = y or no relation can be established between x and y.

$$35x^2 - 25x - 28x + 20 = 0$$
$$5x(7x - 5) - 4(7x - 5) = 0$$
$$x = \frac{4}{5}, \frac{5}{7}$$
$$56y^2 - 49y - 48y + 42 = 0$$
$$7y(8y - 7) - 6(8y - 7) = 0$$
$$y = \frac{6}{7}, \frac{7}{8}$$

Explanation:-
x < y

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 154

I. $x^2 - 5x - 14 = 0$

II. $y^2 + 7y + 10 = 0$

A) if x > y ✓B) if x ≥ y   C) if x < y   D) if x ≤ y   E) if x = y or no relation can be established between x and y.

Explanation:- $x2 - 7x + 2x - 14 = 0$

$x(x - 7) + 2(x - 7) = 0$

$x = 7, -2$

$y2 + 5y + 2y + 10 = 0$

$y = -2, -5$

$x \geq y$

DIRECTIONS *for the question:* In the following question two equations numbered I and II are given. Solve and mark your answer as

Question No. : 155

I. $14x^2 + 11x - 15 = 0$

II. $20y^2 - 31y + 12 = 0$

A) if x > y   B) if x ≥ y   ✓C) if x < y   D) if x ≤ y   E) if x = y or no relation can be established between x and y.

Explanation:-

I. $14x^2 + 11x - 15 = 0$ II. $20y^2 - 31y + 12 = 0$

$14x^2 + 21x - 10x - 15 = 0$ $20y^2 - 15y - 16y + 12 = 0$

$7x(2x + 3) - 5(2x + 3) = 0$ $5y(4y - 3) - 4(4y - 3) = 0$

$(7x - 5)(2x + 3)$ $(5y - 4)(4y - 3)$

$x = \dfrac{-3}{2}, \dfrac{5}{7}$ $y = \dfrac{4}{5}, \dfrac{3}{4}$

$y > x$

DIRECTIONS *for the question:* Study the following Graph & table given below and answer the question that follows.

Question No. : 156

	Taj Mahal		Red Fort		India Gate	
	Total Visitors	Male: Female	Total Visitors	Male: Female	Total Visitors	Male: Female
2012	5250	5:9	6560	20:21	3294	1:2
2013	6372	4:5	7398	5:4	5392	9:7
2014	4194	2:1	5440	8:9	4890	3:2
2015	7239	10:9	7080	7:8	6080	3:5

What is the total number of male visitors who visited Taj Mahal and India Gate in all the years?

A) 19562   B) 25698   ✓C) 20658   D) 30596   E) None of these

Explanation:- *Male visitors who visit Taj Mahal in 2012*

$= 5250 \times \dfrac{5}{14} = 1875$

Male visitors who visit Taj Mahal in 2013

$= 6372 \times \dfrac{4}{9} = 2832$

Male visitors who visit Taj Mahal in 2014

$= 4194 \times \dfrac{2}{3} = 2796$

Male visitors who visit Taj Mahal in 2015

$= 7239 \times \dfrac{10}{19} = 3810$

Male visitors who visit India Gate in 2012

$= 3294 \times \dfrac{1}{3} = 1098$

Male visitors who visit India Gate in 2013

$= 5392 \times \dfrac{9}{16} = 3033$

Male visitors who visit India Gate in 2014

$= 4890 \times \dfrac{3}{5} = 2934$

Male visitors who visit India Gate in 2015

$= 6080 \times \dfrac{3}{8} = 2280$

Total = 1875 + 2832 + 2796 + 3810 + 1098 + 3033 + 2934 + 2280 = 20658
Hence, option c is correct

Question No. : 157

	Taj Mahal		Red Fort		India Gate	
	Total Visitors	Male: Female	Total Visitors	Male: Female	Total Visitors	Male: Female
2012	5250	5:9	6560	20:21	3294	1:2
2013	6372	4:5	7398	5:4	5392	9:7
2014	4194	2:1	5440	8:9	4890	3:2
2015	7239	10:9	7080	7:8	6080	3:5

What is the difference between the female visitors who visited Taj Mahal, Red Fort, and India Gate in 2014 together and the male visitors who visited Red Fort, Taj Mahal and India Gate in 2015 together?

A) 2460   B) 2860   C) 2560   ✓D) 3160   E) 2960

Explanation:-   *Female visitors who visit Taj Mahal in 2014*

$= 4194 \times \dfrac{1}{3} = 1398$

Female visitors who visit Red Fort in 2014

$= 5440 \times \dfrac{9}{17} = 2880$

Female visitors who visit India Gate in 2014

$= 4890 \times \dfrac{2}{5} = 1956$

Male visitors who visit Taj Mahal in 2015

$= 7239 \times \dfrac{10}{19} = 3810$

Male visitors who visit Red Fort in 2015

$= 7080 \times \dfrac{7}{15} = 3304$

Male visitors who visit India Gate in 2015

$= 6080 \times \dfrac{3}{8} = 2280$

Required Difference = (3810 + 3304 + 2280) – (1398 + 2880 + 1956)

= 9394 – 6234 = 3160

Hence, option D is correct.

Question No. : 158

	Taj Mahal		Red Fort		India Gate	
	Total Visitors	Male: Female	Total Visitors	Male: Female	Total Visitors	Male: Female
2012	5250	5:9	6560	20:21	3294	1:2
2013	6372	4:5	7398	5:4	5392	9:7
2014	4194	2:1	5440	8:9	4890	3:2
2015	7239	10:9	7080	7:8	6080	3:5

What is average number of female visitors who visited Taj Mahal and Red Fort in 2012 and 2013 together?
✓A) 3390.75   B) 3256.25   C) 3956.50   D) 4256.20   E) None of these

Explanation:-   *Female visitors who visit Taj Mahal in 2012*

$= 5250 \times \dfrac{9}{14} = 3375$

Female visitors who visit Taj Mahal in 2013

$= 6372 \times \dfrac{5}{9} = 3540$

Female visitors who visit Red Fort in 2012

$= 6560 \times \dfrac{21}{41} = 3360$

Female visitors who visit Red Fort in 2013

$= 7398 \times \dfrac{4}{91} = 3288$

$\text{Requ Avg} = \dfrac{3375 + 3540 + 3360 + 3288}{4}$

$= \dfrac{13563}{4} = 3390.75$

Hence, option A is correct

Question No. : 159

	Taj Mahal		Red Fort		India Gate	
	Total Visitors	Male: Female	Total Visitors	Male: Female	Total Visitors	Male: Female
2012	5250	5:9	6560	20:21	3294	1:2
2013	6372	4:5	7398	5:4	5392	9:7
2014	4194	2:1	5440	8:9	4890	3:2
2015	7239	10:9	7080	7:8	6080	3:5

Find the ratio of male visitors who visited Red Fort in 2012 and 2013 to that of the female visitors who visited India Gate in same years.

A) 411 : 326   B) 911 : 1482   ✓C) 1462 : 911   D) 902 : 1085   E) None of these

Explanation:-   *Male visitors who visit Red Fort in 2012*

$= 6560 \times \dfrac{20}{41} = 3200$

Male visitors who visit Red Fort in 2013

$= 7398 \times \dfrac{5}{9} = 4110$

Female visitors who visit India Gate in 2012

$= 3294 \times \dfrac{2}{3} = 2196$

Female visitors who visit India Gate in 2013

$= 5392 \times \dfrac{7}{16} = 2359$

Required Ratio = 3200 + 4110 : 2196 + 2359
= 7310 : 4555 = 1462 : 911
Hence, option C is correct.

Question No. : 160

	Taj Mahal		Red Fort		India Gate	
	Total Visitors	Male: Female	Total Visitors	Male: Female	Total Visitors	Male: Female
2012	5250	5:9	6560	20:21	3294	1:2

2013	6372	4:5	7398	5:4	5392	9:7
2014	4194	2:1	5440	8:9	4890	3:2
2015	7239	10:9	7080	7:8	6080	3:5

The number of female visitors who visited India Gate in 2015 is approximately what percent of the male visitors who visited Red Fort in 2014?

A) 125%   ✓B) 150%   C) 110%   D) 115%   E) 140%

Explanation:- *Female visitors who visit India Gate in 2015*

$$= 6080 \times \frac{5}{8} = 3800$$

Male visitors who visit Red Fort in 2014

$$= 5440 \times \frac{8}{17} = 2560$$

$$\text{Required \%} = \frac{3800}{2560} \times 100$$

$$= 148.43\% \approx 150\%$$

Hence, option B is correct.

Question No. : 161

	Taj Mahal		Red Fort		India Gate	
	Total Visitors	Male: Female	Total Visitors	Male: Female	Total Visitors	Male: Female
2012	5250	5:9	6560	20:21	3294	1:2
2013	6372	4:5	7398	5:4	5392	9:7
2014	4194	2:1	5440	8:9	4890	3:2
2015	7239	10:9	7080	7:8	6080	3:5

The number of male candidates who visited TAJ MAHAL in all the years is what percent of the number of female candidates who visited IDIA GATE in all the years?

✓A) 109.71%   B) 119.71%   C) 129. 63%   D) 139. 63%   E) None of these

Explanation:- *Male candidates who visited TAJ MAHAL in 2012 = 1875*
Male candidates who visited TAJ MAHAL in 2013 = 2832
Male candidates who visited TAJ MAHAL in 2014 = 2796
Male candidates who visited TAJ MAHAL in 2015 = 3810
Total number of male candidates who visited TAJ MAHAL in all the years = 11313

Female candidates who visited INDIA GATE in 2012 = 2196
Female candidates who visited INDIA GATE in 2013 = 2359
Female candidates who visited INDIA GATE in 2014 = 1956
Female candidates who visited INDIA GATE in 2015 = 3800
Total number of female candidates who visited INDIA GATE in all the years = 10311
Percentage of male candidates TAJ MAHAL to that of female candidates who visited INDIA GATE
*= 11313 * 100/ 10311 = 109.71*

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

Question No. : 162

The following bar graph shows the income and Expenditures (in million US $) of five companies in the year 2011. The percent profit or loss of a company is given by

Income and Expenditure (in million US $) of given companies in the year 2011

$$\text{Percentage profit/loss} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100\%$$
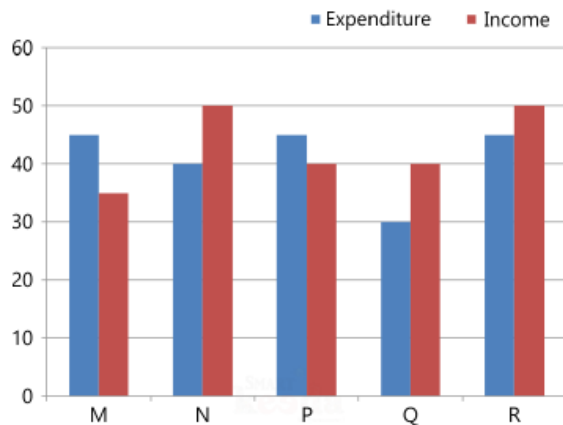
The companies M and N together had a percentage profit/loss of
A) 12% loss   B) 10% loss   C) 10% profit   ✓D) there was no loss or profit   E) None of these

Explanation:- *Total income of companies M and N together = $ (35 + 50) = $ 85 US million*
Total expenditure of companies M and N together = $ (35 + 50) = $ 85 US million Thus, there was neither loss nor profit for companies M and N together.
Hence, option D is correct.

Question No. : 163

In 2011, what was the approximate percentage of profit/loss of all the five companies taken together?

✓A) 5% profit   B) 6.5% profit   C) 4% loss   D) 7% loss   E) None of these

Explanation:- *Total income of all five companies = $ (35 + 50 + 40 + 40 + 50) US million = $ 215 US million*
Total expenditure of all five companies = $ (45 + 40 + 45 + 30 + 45) US million = $ 205 US million

$$\therefore \quad \text{Profit \%} = \frac{215 - 205}{205} \times 100$$

$= 4.88\% \approx 5\%$
Hence, option A is correct.

Question No. : 164

Which company earned the maximum percentage profit in the year 2011?

A) M   B) N   C) P   ✓D) Q   E) None of these

Explanation:-
$$\text{For Q} = \frac{40 - 30}{30} \times 100$$
= 33.33% i.e. 33.3% profit
Hence, option D is correct.

Question No. : 165

For company R, if the expenditure had increased by 20% in year 2011 from year 2010 and the company has earned profit of 10% in 2010, what was the company's income in 2010 (in million US $)?

A) 35.75   B) 37.25   C) 38.5   ✓D) 41.25   E) None of these

Explanation:- *Let the expenditure of 2010 be x. then,*
120% ≡ 45
100% ≡ x

By the cross multiplication, we get

$$x = \frac{45 \times 100}{120} = \frac{75}{2} = 37.5$$

Let company income I with 10% profit. Then,
100% ≡ 37.5
110% ≡ I
By the cross multiplication, we get

$$I = \frac{37.5 \times 110}{100} = 41.25$$

Hence, option D is correct.

Question No. : 166

If the income of company Q in 2011 was 10% more than its income in 2010 and the company had earned profit of 20% in 2010, then its expenditure in 2010 (in million US $) was

A) 28.28   ✓B) 30.30   C) 32.32   D) 34.34   E) None of these

Explanation:- *Let the income of 2010 be x, then*
110% ≡ 40
100% ≡ x
By the cross multiplication, we get

$$X = \frac{40 \times 100}{110} = \frac{400}{11} = 36.36$$

Now, company earned 20% profit on 36.36
So, 120% ≡ 36.36
100% ≡ x

$$X = \frac{36.36 \times 100}{120} = 30.30$$

Hence, option B is correct

Question No. : 167

What is the average profit percent of Q and R?

A) 21   ✓B) 22   C) 23   D) 24   E) None of these

Explanation:- *Profit percent of Q= 33%*
Profit percent of R= 11%
Average= $\frac{33+11}{2}$ = 22

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

Question No. : 168

The ratio of efficiency of Richa to that of Dipti is 3 : 5. If Richa and Raghu together can do the same work in 12 days and Raghu alone can complete it in 18 days then in how much time Dipti alone will complete the same work?

A) 20 days   ✓B) 21.6 days   C) 18 days   D) 24.6 days   E) 25.6 days

Explanation:- *Let total work = 36 (LCM of 12 & 18)*
∴ Per day work of (Richa + Raghu) = 36/12 = 3 unit
And, per day work of Raghu = 36/18 = 2 unit
∴ Per day work of Richa = 3 – 2 = 1 unit
∴ Time taken by Richa alone = 36/ 1 = 36 days
∴ Requised answer = 3/5 × 36
= 21.6 days

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

Question No. : 169

The ratio of present ages of P, Q and R is 3 : 4 : 5. After 4 years, the average ages of all the three will be 24 years. What was the difference between ages of Q and R, 6 years before?

✔A) 5 years   B) 6 years   C) 8 years   D) 10 years   E) 12 years

Explanation:-   *Lets age of P, Q and R be 3x, 4x and 5x respectively.*

$$\therefore ATQ, \ \frac{3x + 4 + 4x + 4 + 5x + 4}{3} = 24$$

⇒ 4x + 4 = 24
⇒ x = 5
∴ Required answer = (5 × 5 - 6) - (4 × 5 - 6)
= 19 - 14
= 5 years

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

Question No. : 170

There is a 120 litre mixture of alcohol and water. The ratio of alcohol to water is 7 : 5. A shopkeeper mixes a certain amount of water in order to make the ratio of alcohol to water 5 : 6. Find the new quantity of water is what percentage of original quantity of water in the mixture?

✔A) 168%   B) 175%   C) 160%   D) 178%   E) 172%

Explanation:-   *Initial amount of alcohol = 7/12 × 120 = 70 litre*
Initial amount of water = 120 – 70 = 50 litre
Let x litre water is added
∴ 70/50+x = 5/6
⇒ x = 84 – 50 = 34 litres

$$\therefore Required \ \% = \frac{50+34}{50} \times 100$$

= 168%

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

Question No. : 171

The cost price of a T.V is 72% of marked price of a fridge. The shopkeeper allows 25% discount on marked price of fridge and sells it at a profit of 20%. If cost price of the fridge is Rs. 5,000 then what is the cost price of T.V.?

A) Rs. 5,000   B) Rs. 6,460   ✔C) Rs. 5,760   D) Rs. 5,680   E) Rs. 6,870

$$S.P \ of \ fridge = \frac{120}{100} \times 5000 = 6000 \ rupees$$

$$\therefore M.P. \ of \ fridge = \frac{100}{75} \times 6000$$

$$= Rs. \ 8,000$$

$$\therefore C.P. \ of \ T.V = \frac{72}{100} \times 8000$$

Explanation:-   = Rs. 5,760

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

Question No. : 172

A train can cross a tunnel in 24 seconds. Another train can cross the same tunnel in 40 seconds. If length of tunnel is 120 m and ratio of their speed is (faster to slower) 4 : 3 then after how much time both train will cross each other if both trains are running towards each other in opposite direction. (Length of faster train is 75% of that of slower train)
A) 40 sec.   B) 18 sec.   C) 36 sec.   ✓D) 24 sec.   E) 32 sec.

Explanation:- *Let length of slower train = x meters*

$\therefore$ Let length of faster train $= \dfrac{75x}{100} \times 0.75x\,m$

ATQ

$\Rightarrow \dfrac{\left(\dfrac{120 + 0.75X}{24}\right)}{\left(\dfrac{120 + X}{40}\right)} = \dfrac{4}{3}$

$\Rightarrow 480 + 4x = 600 + 3.75x$

$\Rightarrow x = \dfrac{120}{0.25} \times 480\,m$

$\therefore$ Required time $= \dfrac{480 + 0.75 \times 480}{\underset{\substack{\Downarrow \\ \text{Speed of} \\ \text{Slower train}}}{\dfrac{600}{40}} + \underset{\substack{\Downarrow \\ \text{Speed of} \\ \text{Faster train}}}{\dfrac{480}{24}}}$

$= \dfrac{840}{35} = 24\ \text{sec.}$

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

Question No. : 173

In an election 8% of the voters did not cast their votes. In this election, there were only two candidates. The winner got 48% of the total votes and defeated his opponent by 1200 votes. Find the total number of voters in the election?

A) 20000   ✓B) 30000   C) 35000   D) 25000   E) 36000

Explanation:- *Let the Total No. of voters = 100 x*
Total No. of voters casted vote = 100x – 8x = 92x
Winner has received = 48x
Another candidate received = 92x – 48x
= 44x
Given, 48x – 44x = 1200 x = 300
Total no. of voters = 300 × 100 = 30000

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

Question No. : 174

A train travels 60% faster than a car. Both start from point A at the same time and reaches point B at the same time, which is 160 km away from each-other. If on the way the train stop for 20 minutes at station, then find the speed (in km/hr) of the train?

A) 144   B) 168   C) 198   ✓D) 288   E) 248

Explanation:- *Let the speed of train = 160x km/hr*
Let the speed of car = 100x km/hr

$$\frac{160}{160x} + \frac{20}{60} = \frac{160}{100x}$$

$$\frac{1}{x} + \frac{1}{3} = \frac{8}{5x}$$

$$\frac{1}{3} = \frac{8-5}{5x}$$

$$x = \frac{9}{5}$$

Speed of the train = 160 × 9/5
= 32 × 9
= 288 km/hr

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

Question No. : 175

Find the ratio of area of a circle to area of square if perimeter of circle and square is equal?

A) 11 : 14   B) 11 : 4   C) 8 : 11   ✓D) 14 : 11   E) 2 : 4

Explanation:- *Let radius of circle and side of square are 'r' and 'a' respectively*
Perimeter of Circle and square is equal
⇒ 2pr = 4a

$$a = \frac{\pi r}{2}$$

Required Ratio = Area of circle : Area of square

$$= \pi r^2 : a^2$$

$$= \pi r^2 : \left(\frac{\pi}{2}r\right)^2$$

$$= 14 : 11$$

Section : Abstract Reasoning

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 176

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure which would continue the series in problem set.
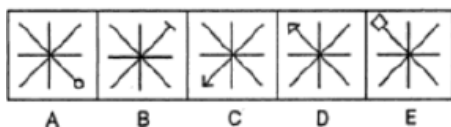
Explanation:- *The symbol on the line moves 2, 4, 6,......... steps in the anti-clockwise direction and is replaced by the new symbol in each step.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 177

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure which would continue the series in problem set.
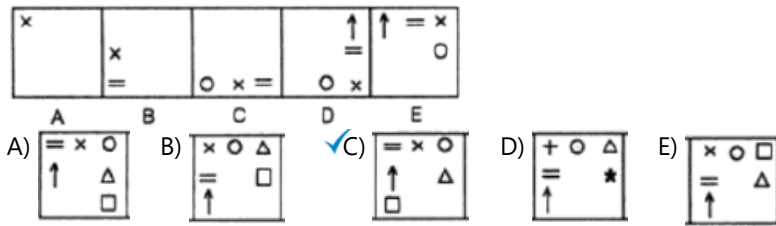
Explanation:- *The symbol 'X' moves one and two steps alternately in anticlockwise direction and a new symbol is added prior to and after the shifted place of the symbol 'X'*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 178

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure which would continue the series in problem set.
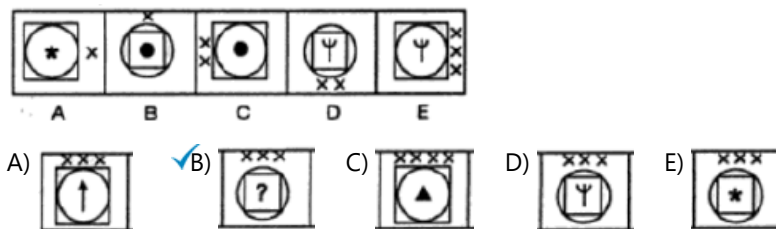
Explanation:- *In the first step, the circle comes out of the square; the inside symbol gets replaced by new one and the crosses out side move one step ACW. In the second step, the square comes out of the circle; the number of crosses increases by one and move one step ACW. The two steps are repeated alternately.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 179

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure which would continue the series in problem set.
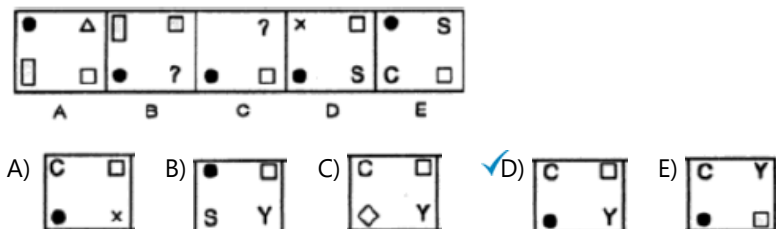
Explanation:- *In the first step the figures on the left get interchanged. The figures on the right also get interchanged but lower one is replaced by new one. In the second step, the figures on the right get replaced. The figures on the left also get interchanged but the upper one is replaced by a new one.*
The two steps operate alternately.

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 180

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure which would continue the series in problem set.
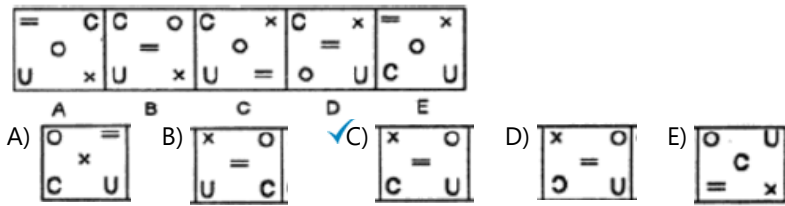
Explanation:-   *The sign '=' replaces O, O replaces C, the C replaces '=' while the remaining figures remain static. This sequence continues in the CW direction rotating each time by 90°.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 181

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure that will fit in place of question mark in problem set.
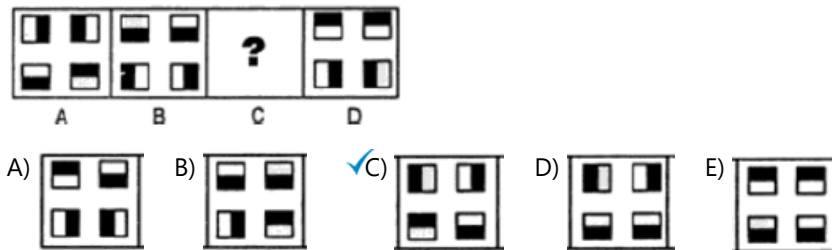

Explanation:-   *The squares in the upper left, lower left, and lower right corners rotate 90° CW while the one is the upper right corner rotates 90° ACW*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 182

The upper and lower pairs of symbols interchange positions in one step and a new symbol is added to the each pair in the next step.
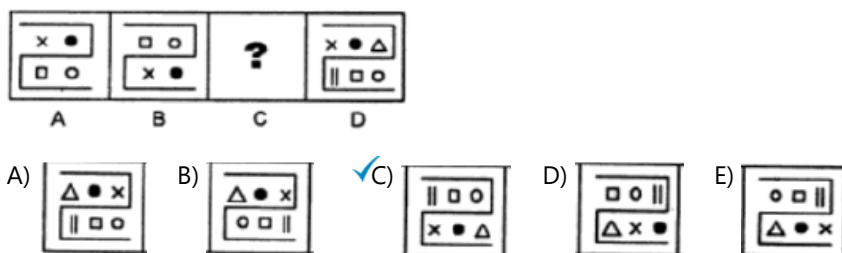
Explanation:-   *The upper and lower pairs of symbols interchange positions in one step and a new symbol is added to the each pair in the next step.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 183

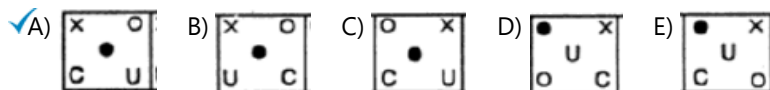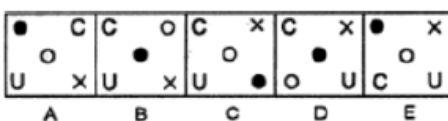Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure that will fit in place of question mark in problem set.

A)   B)   C)   D)   ✓E)
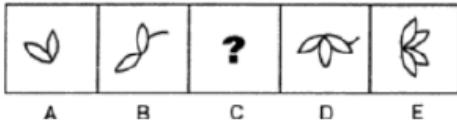
Explanation:- *The figure rotates 45° and 90° in ACW directions alternately. Also, half a leaf is added CW to the figure each time.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 184

In each step, the first and the last symbol interchange positions. A new symbol appears as the first symbol in the CW direction. Finally, all the symbols move half a side in ACW direction.

✓A)   B)   C)   D)   E)
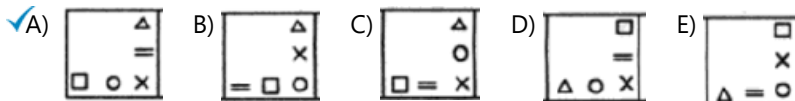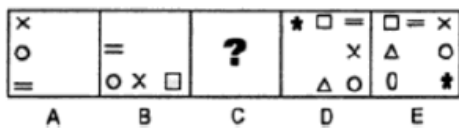
Explanation:- *In each step, the first and the last symbol interchange positions. A new symbol appears as the first symbol in the CW direction. Finally, all the symbols move half a side in ACW direction.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 185

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure that will fit in place of question mark in problem set.

A)   B)   C)   D)   ✓E)
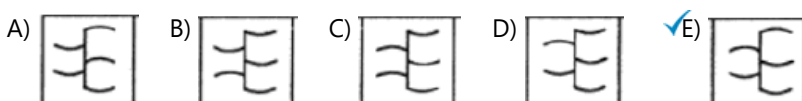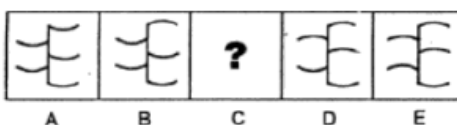
Explanation:- *In each alternate step, the arcs on the eight and left of the vertical straight line are inverted.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 186

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figur from the answer figure which would continue the series in problem set.


A) ✓ B) C) D) E)
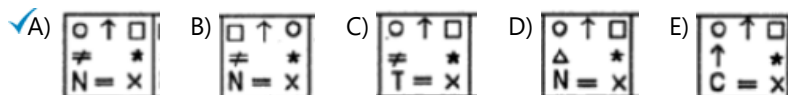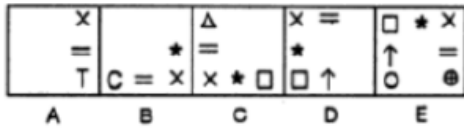
Explanation:- *In each step, each element moves one step in CW direction and two new elements appear at both ends of the figure and one unit disappears. Thus, answer figure (1) continues the series.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 187

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure

A) ✓B) C) D) E)
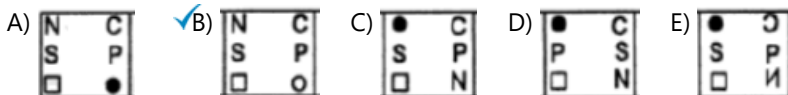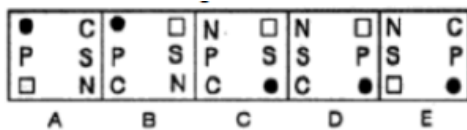
Explanation:- *In successive steps, ❑ do C & N and S & P are interchanged. The same trend continues*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 188

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure which would continue the series in problem set. +


A) ✓ B) C) D) E)

Explanation:- *In subsequent figures, first the three upper elements rotate one step ACW and the remaining two remain static; then three elements on the left right rotate one step ACW and remaining remain static. The same trend repeats with three lower elements followed by three on the left and so on. Answer figure (1) completes the series.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 189

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure which would continue the series in problem set.

A)   ✓B)   C)   D)   E)
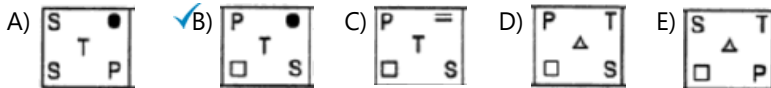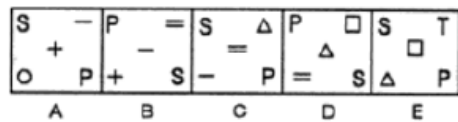
Explanation:-   In every step, the symbol S and P keep on changing their position. The remaining elements move one step down words diagonally but the element 'right hand corner is replaced by a new one.

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 190

Each of the following consist of 5 figure marked A, B, C, D and E. You have to select a figure from the answer figure which would continue the series in problem set.

✓A)   B)   C)   D)   E)
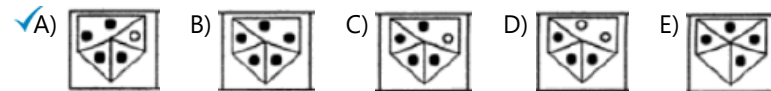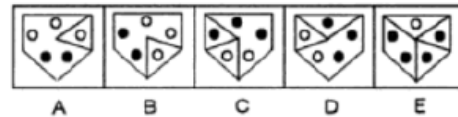
Explanation:-   The dots inside the figure are moved one step CW.

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 191

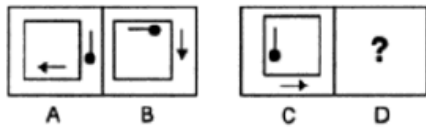Find the figure which has similar relationship as the first figure.

A)   B)   C)   ✓D)   E)
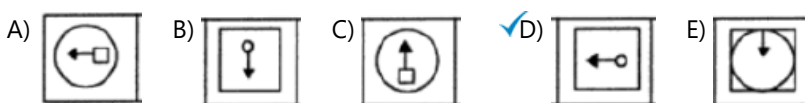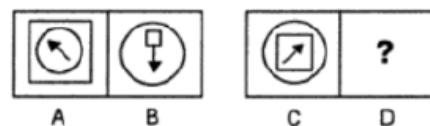
Explanation:-   The arrow is rotated 135 degree ACW. The outer figure is attached to the end of arrow and the middle figure than becomes the outer figure

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 192

Find the figure which has similar relationship as the first figure.
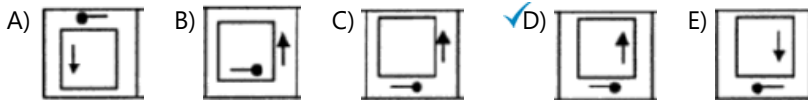
Explanation:- *The dark circle moves 1 step behind in CW direction and comes outside. While the arrow moves 1 step ahead in CW direction and comes inside.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 193

Find the figure which has similar relationship as the first figure.
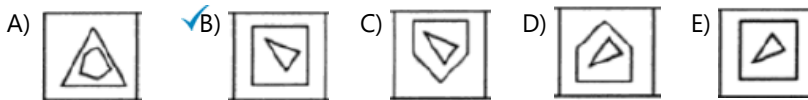
Explanation:- *The figure is rotated 135 degree in ACW direction and it is enclosed in figure which has 1 more side than inside figure.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 194
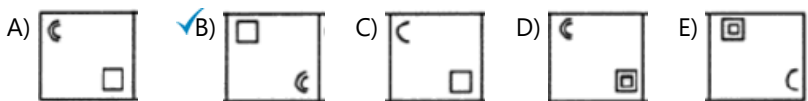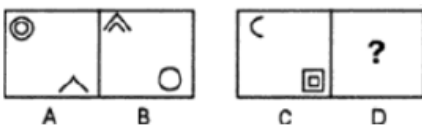
Explanation:- *Down right figure moves to the top left and becomes single figured. While the top left figure moves to the bottom right and becomes double figured.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 195

Find the figure which has similar relationship as the first figure

A)   ✓B)   C)   D)   E)
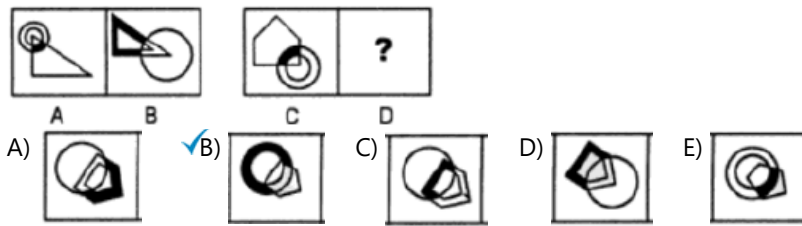
Explanation:- *The bottom figure comes on the top. The unshaded area of the bottom figure gets darker.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

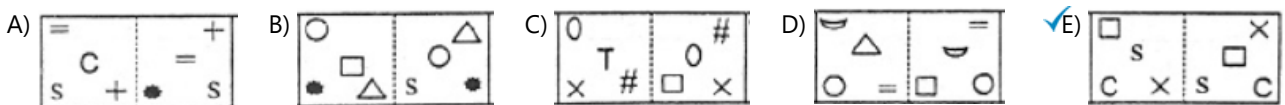**Question No. : 196**

Find out the odd pair.

A)   ✓B)   C)   D)   E)
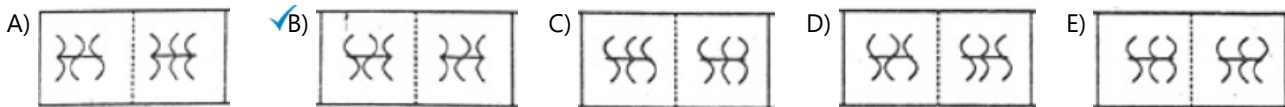
Explanation:- *One of the curves has changed*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 197

Find out the odd pair.

A)   B)   ✓C)   D)   E)
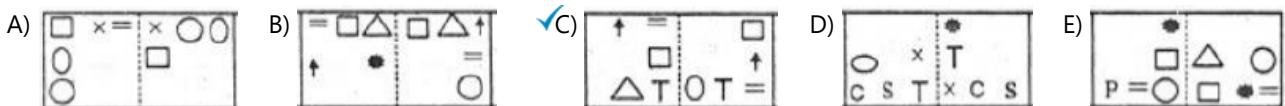
Explanation:- *The first and second element from ACW end move three steps CW. The third and fourth move one step ACW and one at CW end moves one step CW and replaced by a new one.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?
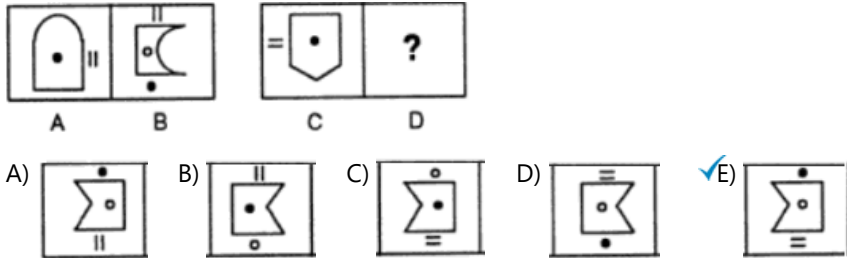
Question No. : 198

Find out the odd pair.

A)   B)   C)   D)   ✓E)

Explanation:- *The CW end element shifts to the centre. The central element shifts to lower left and is replaced by a new one while other two moves one side ACW.*

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 199

Find the figure which has similar relationship as the first figure.
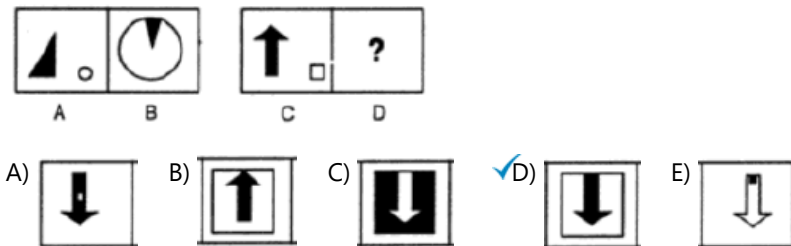

Explanation:- The figure and the = rotates 90 degree ACW direction.

DIRECTIONS *for the question:* In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

Question No. : 200

Find the figure which has similar relationship as the first figure

Explanation:- The smaller figure grows n size and the larger figure moves inside and gets iverted.