Quiz Date: $1^{\text {st }}$ April 2020
Directions (1-5): Study the following information carefully and answer the questions.
Seven persons P, O, N, M, L, K and J were born in seven different months namely February, March, April, June, September, October and November (of the same year) but not necessarily in the same order. Each of them has different weight viz. 39, 49, 42, 33, 55, 17 and 23, but not necessarily in the same order. The one whose weight is 42 kg was not born in the month which has less than thirty days. Both J and N were born in one of the months after the month in which the person whose weight is 39 kg was born. The one who is the third heaviest of them all was not born in the month which has 31 days. Only three persons were born between the one whose weight is 42 kg and the one whose weight is 23 kg . Only two persons were born between J and the one whose weight is 33 kg . N is not the lightest. K was not born in the month which has thirty days. J was born immediately before N. M was born immediately after the one whose weight is 33 kg . P was born immediately before the one who is the second heaviest. Only one person was born between K and the person whose weight is 39 kg . Only two persons were born between M and L .

Q1. Who among the following has the least weight?
(a) K
(b) P
(c) N
(d) M
(e) 0

Q2. How many persons were born between L and J?
(a) None
(b) One
(c) Three
(d) Two

(e) More than three

Q3. J was born in which of the following months?
(a) Cannot be determined
(b) October
(c) March
(d) April
(e) September

Q4. Which of the following denotes the weight of K?
(a) 39
(b) 17
(c) 33
(d) 55
(e) 23

Q5. How many persons are older than the second heaviest person?
(a) More than four
(b) Three
(c) Four
(d) One
(e) None of these


Directions (6-10): Study the following information carefully to answer the given questions.
Number arrangement machine when given an input line of numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: 91537214392485766167
Step I: 13915372398576616723
Step II: 40139172857661672354
Step III: 62401391728576235468
Step IV: 71624013918523546875
Step V: 86716240132354687592
Input:- 564010028638416347188


Q6. How many numbers are there between 33 and the one which is 4th from the left end in step IV?
(a) One
(b) More than three
(c) Three
(d) None
(e) Two

Q7. How many numbers are there between the one which is 2nd from the left end and 100 in step III?
(a) One
(b) More than three
(c) Three
(d) None
(e) Two

Q8. What is the position of 88 from the right end in penultimate step?
(a) First
(b) Fifth
(c) Second
(d) Third
(e) Sixth

Q9. Which of the following number is 4th to the left of 88 in the III step?
(a) 100
(b) 15
(c) 84
(d) 33
(e) None of these

Q10. How many steps will be required to complete the given arrangement?
(a) five
(b) four
(c) seven
(d) eight
(e) None of these

Direction (11-15): In each of the questions below are given some statements followed by two conclusions. 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 follows from the given statements disregarding commonly known facts.
(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.

## Q11. Statements:

Some Apple are Orange.
Some Grapes are Papaya.
No Orange is papaya.

## Conclusion:

I: Some Apple are not grapes
II: Some grapes are not Orange

## Q12. Statements:

Only a few Smile are Cute.
All Cute is Dog.
Some Dog are Awesome

## Conclusion:

I: Some smile are Awesome
II: All Dog being smile is possibility

## Q13. Statements:

Only air is breath.
Some air is pure.
All pure is Nature

## Conclusion:

I: Some Nature is Breath
II: Some pure is breath

## Q14. Statements:

Only a few Mango is Grapes.
Only a few Grapes are Apple.
Some apple is Litchi.

## Conclusions:

I. All Apple can be Mango.
II. Some Litchi is Grapes.

Q15. Statements:
All Symbols are Image.
All Image are Tool.
No Image is Color.
Conclusions:
I. Some Tool are not Color.
II. All Color are not Symbols


Solutions
S1. Ans.(a)

Sol

| Month | Persons | Weight |
| :--- | :--- | :--- |
| February | L | 23 |
| March | K | 17 |
| April | O | 33 |
| June | M | 39 |
| September | P | 42 |
| October | J | 49 |
| November | N | 55 |

S2. Ans.(e)

Sol

| Month | Persons | Weight |
| :--- | :--- | :--- |
| February | L | 23 |
| March | K | 17 |
| April | O | 33 |
| June | M | 39 |
| September | P | 42 |
| October | J | 49 |
| November | N | 55 |

S3. Ans.(b)

Sol.

| Month | Persons | Weight |
| :--- | :--- | :--- |
| February | L | 23 |
| March | K | 17 |
| April | O | 33 |
| June | M | 39 |
| September | P | 42 |
| October | J | 49 |
| November | N | 55 |

S4. Ans.(b)

| Month | Persons | Weight |
| :--- | :--- | :--- |
| February | L | 23 |
| March | K | 17 |
| April | O | 33 |
| June | M | 39 |
| September | P | 42 |
| October | J | 49 |
|  | November | N |

S5. Ans.(a)

Sol.

| Month | Persons | Weight |
| :--- | :--- | :--- |
| February | L | 23 |
| March | K | 17 |
| April | O | 33 |
| June | M | 39 |
| September | P | 42 |
| October | J | 49 |
| November | N | 55 |

S6. Ans. (d)
Sol. In this input output question numbers are arranged in ascending order from both the ends such as lowest number is first arranged from the left end and the second lowest number is arranged from the right end. And also all the numbers which are getting arranged by adding 1 to odd numbers and subtracting 1 from the even numbers.

Input:- 564010028638416347188
Step I: 155640100638434718827
Step II: 331556100638471882739
Step III: 553315100847188273964
Step IV: 725533151008827396483
Step V: 87725533152739648399
Step V, is the last step
S7. Ans. (a)
Sol. In this input output question numbers are arranged in ascending order from both the ends such as lowest number is first arranged from the left end and the second lowest number is arranged from the right end. And also all the numbers which are getting arranged by adding 1 to odd numbers and subtracting 1 from the even numbers.

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Step V: 87725533152739648399
Step V, is the last step
S8. Ans. (b)
Sol. In this input output question numbers are arranged in ascending order from both the ends such as lowest number is first arranged from the left end and the second lowest number is arranged from the right end. And also all the numbers which are getting arranged by adding 1 to odd numbers and subtracting 1 from the even numbers.

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Step II: 331556100638471882739
Step III: 553315100847188273964
Step IV: 725533151008827396483
Step V: 87725533152739648399
Step V, is the last step
S9. Ans. (b)
Sol. In this input output question numbers are arranged in ascending order from both the ends such as lowest number is first arranged from the left end and the second lowest number is arranged from the right end. And also all the numbers which are getting arranged by adding 1 to odd numbers and subtracting 1 from the even numbers.

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Step V: 87725533152739648399
Step V, is the last step
S10. Ans (a)
Sol. In this input output question numbers are arranged in ascending order from both the ends such as lowest number is first arranged from the left end and the second lowest number is arranged from the right end. And also all the numbers which are getting arranged by adding 1 to odd numbers and subtracting 1 from the even numbers.

Input:- 564010028638416347188
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Step IV: 725533151008827396483
Step V: 87725533152739648399
Step V, is the last step
S11. Ans(b)

Sol.


S12. Ans(b)

Sol.


S13. Ans(d)

Sol.


S14.Ans(a)

Sol.


S15.Ans(e)


Sol.


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