Quiz Date: 25th June 2020

**Directions (1-5): Study the following information carefully and answer the questions give below.**

Seven friends A, B, C, D, E, F, and G purchased different cars i.e. U, V, W, X, Y, S, and Z in seven different months from January to July (not necessarily in same order). Also, they all like different fruits i.e. Mango, Muskmelon, Orange, Kiwi, Pomegranate, Guava, and Cherry (not necessarily in same order). E did not purchase a car in March and July. Car Z was purchased in a month which has 30 days. B purchased a car in June. Either D or E likes guava. C purchased car W in February. A likes mango and F purchased car Y. F doesn't like muskmelon and kiwi. The one who likes pomegranate purchased car V. B did not purchase car U. The one who purchased car W doesn't like muskmelon and car S was purchased in May. A purchased a car in a month which has 31 days. Cars V and Y were purchased in the months which have 31 days. Either B or A purchased car Z. G likes orange and purchased car X. D purchased car just after G. The one who likes mango did not purchase car S. E did not purchase car S.

Q1. Who among the following friend likes Pomegranate?
(a) C
(b) B
(c) A
(d) E
(e) None of these

Q2. Who among the following friends purchased a car in March?
(a) A
(b) C
(c) F
(d) Either (a) or (c)
(e) None of these

Q3. Which of the following combination is not true according to the given arrangement?
(a) W- Kiwi
(b) V- January
(c) X- April
(d) Y- Cherry
(e) S- Kiwi

Q4. The one who likes cherry, purchased a car in which of the following month?
(a) July
(b) June
(c) February
(d) Either (a) or (e)
(e) March

Q5. Car V purchased in which of the following month?
(a) January

(b) July
(c) April
(d) None of these
(e) May

Directions (6-10): Study the following information carefully to answer the given questions. A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.
**Input: first 31 practice linear 22 47 sound 11 62 magic 35**
Step I: 11 first 31 practice linear 22 47 sound 62 35 magic
Step II: 11 31 first practice linear 22 47 62 35 sound magic
Step III: 11 31 47 first linear 22 62 35 practice sound magic
Step IV: 11 31 47 22 first 62 35 linear practice sound magic
Step V: 11 31 47 22 35 62 first linear practice sound magic
And step V is the last step of the above input. As per the rules followed in the above step, find out the appropriate step for the given output.

**Input: wait 17 48 bad back 23 relation 61 25 puzzle 16**

Q6. Which element is exactly between the third element from left end and fifth element from right end in step IV?
(a) 48
(b) back
(c) wait
(d) bad
(e) 16

Q7. In step II, '17' is related to 'back' and 'wait' is related to '61'. In the same way 'relation' is related to?
(a) 25
(b) bad
(c) 23
(d) puzzle
(e) 48

Q8. In which of the following step the elements "48 25 relation" found in the same order?
(a) Step I
(b) Step IV
(c) Step III
(d) Step II
(e) no such step

Q9. In step II, what is the sum of fourth element from left end and third element from right end?
(a) 79

(b) 88
(c) 37
(d) 80
(e) 64

Q10. Which of the following element would be at the third from the left of the element which is sixth from the right end in step III?
(a) 61
(b) wait
(c) back
(d) 16
(e) 48

**Direction (11-13): In the following questions, the symbols #, &, @ and $ are used with the following meanings as illustrated below. Study the following information and answer the given questions:**
**Note: The directions which are given indicates exact directions.**
A#B  -  A is in the south direction of B.
A@B  - A is in the north direction of B.
A&B -  A is in the east direction of B.
A$B  -  A is in the west direction of B.
A£BC- A is the mid-point of BC vertically.

Point S is $24m of point B. Point P is #5m of point S. Point K is @25m of point B. Point L is $20m of point K. Point Q is #10m of point L. Point F is $13m point Q. Point E£SB. Point D is &16m of Point F.

Q11. What is the direction of point K with respect to S?
(a) #&
(b) @&
(c) #$
(d) @$
(e) None of these

Q12. What is the shortest distance and direction of point P with respect to E?
(a) 13m, #$
(b) 15m, @&
(c) 20m, #@
(d) 25m, $&
(e) None of these

Q13. What is the direction of point L with respect to B?
(a) $#
(b) #@
(c) @$
(d) &@

(e) None of these

**Direction (14-15): Study the following information carefully and answer the given question.**
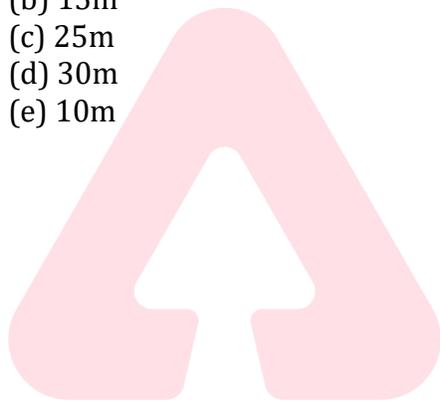Point A is 5m north of point D.  Point E is 7m south of point C. Point F is 3m west of point A. Point C is 24m east of point D. Point B is 10m north of point E.

Q14. If Point G is 4m west of Point C, then what is the shortest distance and direction of point B with respect to G?
(a) 7m, north west
(b) 5m, north east
(c) 3m, south west
(d) 11m, south east
(e) 8m, north

Q15. What is the shortest distance between point D and point E?
(a) 18m
(b) 15m
(c) 25m
(d) 30m
(e) 10m

Solutions

Solutions: (1-5):
Sol.

| Months | Friends | Cars | Fruits |
|---|---|---|---|
| March/July | A | U | Mango |
| June | B | Z | Muskmelon |
| February | C | W | Kiwi |
| May | D | S | Guava |
| January | E | V | Pomegranate |
| March/July | F | Y | Cherry |
| April | G | X | Orange |

S1. Ans.(d)
S2. Ans.(d)
S3. Ans.(e)
S4. Ans.(d)
S5. Ans.(a)

Solution (6-10):
Sol. In this input output question two numbers are arranged in each step following a certain pattern. Let us understand the logic behind it-
For Words:  Words are arranged according to the place value of the last letter in the alphabetical series from right to left in the right end. The word which has the last letter, which comes 1st in alphabetical series, is arranged first and so on. For example, "music and guide" in which we can see that "c" and "e" are last letters of both words but c comes 1st, so "music" will be arranged 1st.
For Numbers: They are arranged in increasing order. The prime numbers are arranged first followed by composite numbers from left to right in left end.
**Input: wait 17 48 bad back 23 relation 61 25 puzzle 16**
Step I: 17 wait 48 back 23 relation 61 25 puzzle 16 bad
Step II: 17 23 wait 48 back relation 61 25 16 puzzle bad
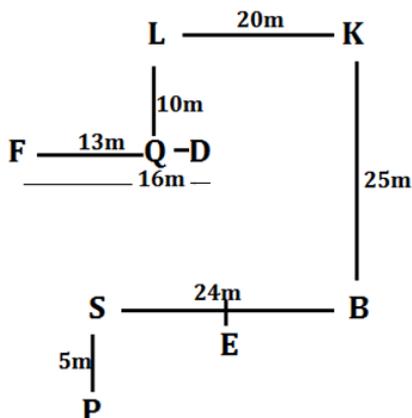Step III: 17 23 61 wait 48 relation 25 16 back puzzle bad
Step IV: 17 23 61 16 wait 48 25 relation back puzzle bad
Step V: 17 23 61 16 25 48 wait relation back puzzle bad

S6. Ans.(c)
S7. Ans.(d)
S8. Ans.(b)
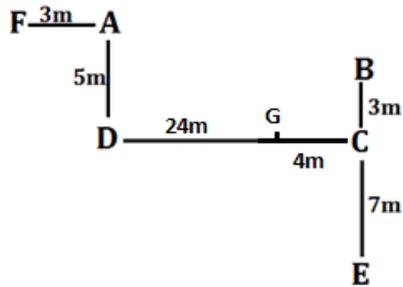S9. Ans.(e)
S10. Ans.(a)

Solution (11-13):
Sol.



S11. Ans.(b)

S12. Ans.(a)
S13. Ans.(c)

Solution (14-15):
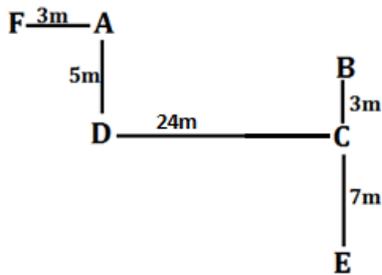S14.Ans.(b)
Sol.

```
F  3m  A
       |
    5m |
       |
    D ————— 24m ————— G   B
                      |   | 3m
                      C   C
                    4m    |
                          | 7m
                          |
                          E
```

S15. Ans.(c)
Sol.

```
F  3m  A
       |
   5m  |
       |
    D ————— 24m ————— C  B
                      |  | 3m
                      C
                      | 7m
                      |
                      E
```

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