Quiz Date: 23th February 2020
Directions (1-5): Study the information carefully and answer the questions given below.
Ten children are sitting in two parallel rows. A, B, C, D and E are sitting in row-1 facing south while P, Q, R, S and T are sitting in row-2 facing north. Each of them has different number of toys. Children who sit in row-1 have number of toys is multiple of 9 and who sits row-2 have number of toys is multiple of 8. The person who has maximum number of toys is 45.
Only two persons sit between P and the one who faces the person who has maximum number of toys. B sits second to the left of A. C faces the person who has 4 toys less than C. R sits second to the right of the one who has 2 toys less than E. The one who has maximum number of toys is not sitting at any end. A faces the one who has 7 toys more than A. Neither P nor S faces A. P has more toys than Q but less than R who is not an immediate neighbour of S. Q sits immediate right of T. B has odd number of toys. P faces the one who has more number of toys than B. S has less number of toys than Q.

Q1. Who among the following has 3 toys more than Q?
(a) B
(b) D
(c) C
(d) E
(e) None of these

Q2. Who among the following sits diagonally opposite to R?
(a) the one who has 16 toys
(b) D
(c) the one who has 18 toys
(d) C
(e) None of these

Q3. Which of the following statement is true about D?
(a) D faces the one who has 8 toys
(b) D has maximum number of toys
(c) Only two persons sit between D and E
(d) P has 5 toys less than D
(e) None is true

Q4. How many persons sit left of the one who has 16 toys?
(a) One
(b) Three
(c) Two
(d) None

(e) Four

Q5. What is the position of A with respect to C?
(a) Immediate Right
(b) Fourth to the left
(c) Third to the right
(d) Second to the left
(e) Immediate Left

Directions (6–10): Study the given information carefully to answer the given question.
In a certain code language
'Logical Statement Follow' is written as '17O@ 23D# 10G@'
'Village Picture University' is written as '7V@ 8B# 13V@'
'Order Business Speaking' is written as '14I@ 10T# 27H#'

Q6. What is the code for 'Human'?
(a) 25R#
(b) 21M@
(c) 22T@
(d) 21M#
(e)None of these

Q7. What is the code for 'Airtel Operator'?
(a) 28O# 14I@
(b) 14I@ 24G@
(c) 30Y@ 14I#
(d) 28O# 14I#
(e)None of these

Q8. What is the code for 'Trending'?
(a) 9T@
(b) 16R@
(c) 9T#
(d) 18T@
(e)None of these

Q9. What is the code for 'Graph'?
(a) 22S@
(b) 25T#
(c) 4F@
(d) 16D#

(e)None of these

Q10. What is the code for 'Direction'?
(a) 25M@
(b) 22H#
(c) 16M@
(d) 24K#
(e)None of these

Direction (11-15): Study the following information carefully and answer the given questions.
There are eight members in a family in three generation i.e. P, Q, R, S, T, U, V and M. Among them only two married couples and only four males. R is married to P. Q is the only child of S. U is married and she has a mother-in-law. S is paternal grandmother of T. P is father of T's mother and V. M is not a female member of a family. T is brother of M.

Q11. Who among the following mother of T?
(a) S
(b) P
(c) V
(d) U
(e) None of these

Q12. Who among the following is sister-in-law of Q?
(a) P
(b) V
(c) M
(d) T
(e) None of these

Q13. Who among the following is mother of V?
(a) R
(b) S
(c) T
(d) V
(e) None of these

Q14. How is P related to Q?
(a) Father
(b) Mother
(c) Father in law
(d) Mother in law
(e) None of these

Q15. How is R related to M?
(a) Paternal grandfather
(b) Maternal grandfather
(c) Paternal grandmother
(d) Maternal grandmother
(e) None of these

Directions (16-20): Study the following information carefully and 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: reforms 31 sector technology 96 home 14 49 local business 22 47
Step I: 5 reforms 31 sector technology 96 49 local business 22 47 home
Step II: 13 5 reforms 31 sector technology 96 49 business 47 home local
Step III: 35 13 5 reforms technology 96 49 business 47 home local sector
Step IV: 51 35 13 5 technology 96 49 business home local sector reforms
Step V: 53 51 35 13 5 technology 96 home local sector reforms business
Step VI: 87 53 51 35 13 5 home local sector reforms business technology
As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.

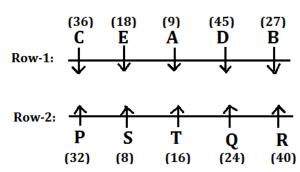**Input: 54 factory 33 income 17 26 dark 42 sport 87 optimism governance**

Q16. Which of the following element is 7th from the left in step III?
(a)54
(b)Factory

(c) 87
(d)Dark
(e)None of these

Q17. Which of the following element is exactly middle in '17' and 'income in step V?
(a)income
(b) Governance
(c)42
(d)33
(e)None of these

Q18. What is multiplication of smallest digit in step II and third highest digit in step V?
(a) 725
(b) 629
(c)100
(d) 275
(e) None of these

Q19. Which of the following element is third to the left of the element which is fourth to the right in step III?
(a)Optimism
(b)87
(c) 42
(d)Factory
(e)None of these

Q20. Which of the following element is 5th from the right in last step?
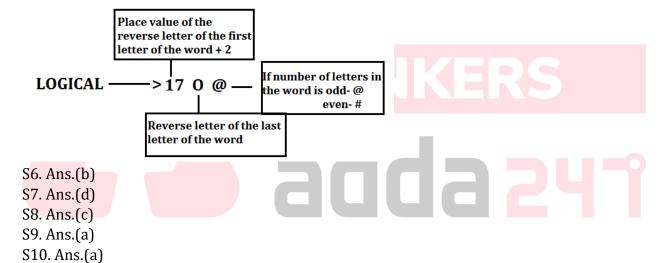(a)Sport
(b)factory
(c)Income
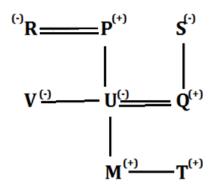(d)dark
(e)None of these

Solutions
Solution (1-5):

```
        (36)   (18)   (9)    (45)   (27)
         C      E     A       D      B
Row-1:   ↓      ↓     ↓       ↓      ↓

Row-2:   ↑      ↑     ↑       ↑      ↑
         P      S     T       Q      R
        (32)   (8)   (16)    (24)   (40)
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S1. Ans.(a)
S2. Ans.(d)
S3. Ans.(b)
S4. Ans.(c)
S5. Ans.(d)

Solution (6-10):

Place value of the reverse letter of the first letter of the word + 2

LOGICAL ——> 17 O @ —— If number of letters in the word is odd- @　even- #

Reverse letter of the last letter of the word

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

Solution (11-15):

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(-)R══════P(+)        S(-)
          |            |
          |            |
V(-)─────U(-)════Q(+)
          |
          |
         M(+)─────T(+)
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S11. Ans.(d)
S12. Ans.(b)

S13. Ans.(a)
S14. Ans.(c)
S15. Ans.(d)

Solutions (16-20):
Sol. Students let us understand the Logic behind this Question and lets understand how to solve it. As a first step lets first understand the logic behind the Output. If you will see the final output, you will observe the following:
(i)- In each step only one word and one number is getting arranged. The words are arranged according to the number of letters present in words in ascending order from left end to right end.
(ii)- Numbers are arranged increasing order right to left. If number is even number subtract square of 3(i.e 9) in this number and if number is odd number add square of 2(i.e 4) in this number.

Input: 54 factory 33 income 17 26 dark 42 sport 87 optimism governance
Step I: 21 54 factory 33 income 26 42 sport 87 optimism governance dark
Step II: 17 21 54 factory 33 income 42 87 optimism governance dark sport
Step III: 37 17 21 54 factory 42 87 optimism governance dark sport income
Step IV: 33 37 17 21 54 87 optimism governance dark sport income factory
Step V: 45 33 37 17 21 87 governance dark sport income factory optimism
Step VI: 91 45 33 37 17 21 dark sport income factory optimism governance
S16. Ans.(c)
S17. Ans.(b)
S18. Ans.(b)
S19. Ans.(c)
S20. Ans.(a)

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