

## 200 Questions for IBPS PO Mains 2022 - Reasoning Ability

**Directions (1-5):** A number arrangement machine when give an input line of numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input: 20146 38967 58426 23614 42975**

Step I: 46120 67938 26458 14623 75942

Step II: 64102 76983 62485 41632 57924

Step III: 02164 83976 85462 32641 24957

Step IV: 64210 98763 86542 64321 97542

Step V: 13 33 25 16 27

Step VI: @ @ @ % @

Step VI is the last step of the above input. As per the rules followed in the above steps, answer the following questions.

**Input: 74891 68974 36289 98317 62598**

**Q1.** What is the absolute difference between the highest and second lowest number in step II of the given input?

- (a) 50277
- (b) 65124
- (c) 46782
- (d) 65398
- (e) 45897

**Q2.** How many numbers are multiple of 4 in step IV of the given input?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

**Q3.** The digits of each number in step V are arranged in descending order from left to right. And then, all the numbers are arranged in ascending order from left to right. What is the last number (from the left end) obtained after rearrangement?

- (a) 76
- (b) 92
- (c) 86
- (d) 74
- (e) None of these

**Q4.** How many numbers are there in step III which are greater than 25321 and lesser than 63278?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

**Q5.** What is the sum of the second highest and third lowest number in step III of the given input?

- (a) 150277
- (b) 150345
- (c) 150246
- (d) 150245
- (e) None of these

**Directions (6-10):** When a word and number arrangement machine is given an input line of word and numbers it arranges them following a particular rule. The following is an illustration of input and rearrangement.

**Input: 32 cycle 65 volcano 74 dormant 81 lava 37 ashes**

Step I: 33 cycle 64 volcano 75 dormant 80 lava 36 ashes

Step II: 33 dycle 64 wolcano 75 eormant 80 mava 36 zshes

Step III: 80 dycle 33 64 wolcano 75 eormant mava 36 zshes

Step IV: 75 eormant 80 dycle 33 64 wolcano mava 36 zshes

Step V: 64 mava 75 eormant 80 dycle 33 wolcano 36 zshes

Step VI: 36 wolcano 64 mava 75 eormant 80 dycle 33 zshes

Step VII: 33 zshes 36 wolcano 64 mava 75 eormant 80 dycle

And the step VII is the last step of the rearrangement. As per the rules followed in the above step, find out each of the following questions the appropriate step for the given input.

**Input: 44 divine 29 circular 38 european 55 delicious 16 ancestors**

**Q6.** How many steps are required to complete the rearrangement of the given input?

- (a) Six
- (b) Five
- (c) Seven
- (d) Four
- (e) None of these

**Q7.** Which of the following element will not appear in step III of the given input?

- (a) Eelicious
- (b) 45
- (c) 39
- (d) Fuorpean
- (e) None of these

**Q8.** In which of the following steps, "45 eivine 28 39" will appear in the same sequence?

- (a) Step III
- (b) Step IV
- (c) Step V
- (d) Step VI
- (e) None of these

**Q9.** What is the sum of 2nd number from the left end and 1st number from the right end in Step IV?

- (a) 71
- (b) 74
- (c) 64
- (d) 62
- (e) None of these

**Q10.** Which of the following is the 2nd last step of the given input after the rearrangement?

- (a) 54 eelicious 45 eivine 28 dircular 38duropean 16zncestors
- (b) 28 eivine 39 eelicious 45 duropean 54 dircular 17 zncestors
- (c) 28 eelicious 45 eivine 39 dircular 54 duropean 17 zncestors
- (d) 28 eelicious 54 eivine 45 dircular 39 duropean 17 zncestors
- (e) 54 eelicious 44 eivine 28 dircular 39 duropean 17 zncestors

**Directions (11-15):** A number and word arrangement machine when given an input line of numbers and words rearranges them following a particular rule in each step. The following is an illustration of an input rearrangement.

**Input: 63 Student Class Stress 34 56 College 47**

Step I: 63 Class Stress 34 56 College 47 Student

Step II: 63 56 Class 34 College 47 Stress Student

Step III: 63 56 47 Class 34 College Stress Student

Step IV: 63 56 47 34 Class College Stress Student

Step V: 63 56 47 34 15 21 114 133

And the step V is the last step of the rearrangement. As per the rules followed in the above step, find out each of the following questions the appropriate step for the given input.

**Input: 64 36 great brave 29 ego courage 58 hostile 82**

**Q11.** Which element is second to the left of 'brave' in the second last step of the given input?

- (a) 29
- (b) 36
- (c) Courage
- (d) Ego
- (e) None of these

**Q12.** How many numbers are between the smallest and the largest numbers in the last step of the given input?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

**Q13.** Which element is fourth to the right of '29' in the last step of the given input?

- (a) 82
- (b) 56
- (c) 15
- (d) 35
- (e) None of these

**Q14.** Which of the following is the final step of the given input?

- (a) 82 58 64 29 36 10 21 15 35 56
- (b) 82 64 58 36 29 10 21 15 35 56
- (c) 82 64 58 36 10 28 15 21 35 56
- (d) 82 64 36 58 29 10 21 15 56 35
- (e) 64 82 58 36 10 21 29 15 35 56

**Q15.** In which of the following steps, "36 brave 29 courage" will appear in the same sequence?

- (a) Step III
- (b) Step IV
- (c) Step V
- (d) Step VI
- (e) None of these

**Directions (16-20):** Answer the questions based on the information given below.

In a certain code language:

"Soft Corner Deal available" is coded as "#T20, @D18, @E12, #B5"

"Some Time Hero Potential" is coded as "@T5, @US, @I15, @Q12"

"Nothing Can Pass Obstacles" is coded as "@07, #D14, #Q19, #P19"

"Some Are Useful Sometimes" is coded as "@T5, @B5, #V12, @T19"

**Q16.** What will be the code for "Temple"?

- (a) @U5
- (b) @U14
- (c) #U5
- (d) #U14
- (e) None of these

**Q17.** What will be the code for "Nonsense Run"?

- (a) #05 #S14
- (b) @05 @S14
- (c) @05 #S14
- (d) @N5 @R19
- (e) None of these



**Q18.** Which of the following word is coded as "@N25"?

- (a) Donkey
- (b) Monkey
- (c) Carry
- (d) Honey
- (e) Fossil

**Q19.** What will be the code for "Questions"?

- (a) #S19
- (b) @S19
- (c) #R19
- (d) @R19
- (e) None of these

**Q20.** Which of the following word is coded as "@B15"?

- (a) Abject
- (b) Albino
- (c) Ago
- (d) Bingo
- (e) Indigo

**Directions (21-25):** Answer the questions based on the information given below.

In a certain language,

'Afraid Fired Graphics Raise' is coded as 'F@12 V#13 L@3 H#2

'Reflect Sonic Bond Aster' is coded as 'L#16 Q@2 F#2 H#17

'Some Laugh Train Offer' is coded as 'L#6 P@14 H#3 J#4"

'Bottom Wisdom Copy Peace' is coded as 'R@11 S@22 R@10 F#11"

**Q21.** What will be the code for "Python"?

- (a) R@2
- (b) R#8
- (c) M@10
- (d) E#5
- (e) None of these

**Q22.** Which of the following word is coded as 'O#4'?

- (a) Originals
- (b) Aptitude
- (c) Ocean
- (d) Occur
- (e) Object

**Q23.** Which of the following word is coded as 'F#14'?

- (a) Normal
- (b) Surface
- (c) Affiliate
- (d) Security
- (e) Possible

**Q24.** What will be the code for "Divisors" in the same code language?

- (a) F@18
- (b) U@15
- (c) V@18
- (d) F#17
- (e) None of these

**Q25.** What will be the code for "Tracker" in the same code language?

- (a) H@5
- (b) G@2
- (c) H#5
- (d) H#2
- (e) None of these

**Directions (26-30):** Answer the questions based on the information given below.

In a certain code of language,

"Healthy mentally peace fitness training" is coded as "hba sba cba uba fba",

"Exercises are daily fitness" is coded as "fba xba zba vba",

"Peace are rivers" is coded as "xba oba hba",

"Healthy daily peace" is coded as "hba sba zba".

**Q26.** What is the code for the word "exercise"?

- (a) vba
- (b) xba
- (c) zba
- (d) qba
- (e) None of the above

**Q27.** What is the code of "mentally"?

- (a) uba
- (b) cba
- (c) zba
- (d) sba
- (e) Cannot be determined

**Q28.** The code "zba" represents which of the following word?

- (a) Mentally
- (b) Peace
- (c) Rivers
- (d) Daily
- (e) None of the above

**Q29.** What is the code of "Fitness"?

- (a) xba
- (b) fba
- (c) oba
- (d) hba
- (e) None of the above

**Q30.** What is the code for the word "healthy"?

- (a) sba
- (b) oba
- (c) uba
- (d) hba
- (e) Cannot be determined

**Directions (31-35):** There are two rows given and to find out the resultant of a particular row, we need to follow the given steps:

**Step I:** If an even number is followed by an odd number, then resultant will be the addition of both numbers.

**Step II:** If an odd number is followed by an even number (but not the square number), then the resultant will be the multiplication of both numbers.

**Step III:** If an odd number is followed by a square number (but not an odd number), then the resultant will be the difference of both numbers.

**Step IV:** If an even number is followed by another even number, then the resultant will be the division of both numbers.

**Step V:** If an odd number is followed by another odd number, then the resultant will be the highest number among both the numbers.

**Q31.** What is the addition of resultant of both the rows?

**22    2    4    5**

**50    5    2    10**

- (a) 17
- (b) 18
- (c) 19
- (d) 20
- (e) None of these

**Q32.** What is the multiplication of resultant of both rows?

**16    8    19    25**

**30    6    4    25**

- (a) 576
- (b) 625
- (c) 635
- (d) 676
- (e) None of these

**Q33.** What is the difference of resultant of both the rows?

**12    6    9**  
**3    9    23**

- (a) 11
- (b) 13
- (c) 12
- (d) 14
- (e) None of these

**Q34.** What is the resultant of first row if X is the resultant of second row?

**16    4    X**

**15    36    8**

- (a) 42
- (b) 44
- (c) 46
- (d) 48
- (e) None of these

**Q35.** What is the half of the sum of resultant of both the rows?

**12    2    3    8**

**18    7    4    2**

- (a) 51
- (b) 59
- (c) 56
- (d) 57
- (e) None of these

**Directions (36-40):** In every question, two rows are given and to find out the resultant of a particular row you need to follow the following steps:

**Step I:** If an even number is followed by the number divisible by 5 then the resultant will be the addition of 8 with the difference of both the numbers.

**Step II:** If an even number is followed by another even number but not divisible by 5, then the resultant will be the smallest number among the two numbers.

**Step III:** If an odd number is followed by an even number, then the resultant will be the addition of both the numbers.

**Step IV:** If an odd number is followed by another odd number, then the resultant will be the difference of greater number with 10.

**Step V:** If an even number is followed by an odd number but not divisible by 5, then the resultant will be the difference of both the numbers.

**Q36.** What is the multiplication of resultant of both rows?

**2    10    4    7**

**6    14    7    3**

- (a) 21
- (b) 28
- (c) 24
- (d) 32
- (e) None of these

**Q37.** What is the addition of the resultant of both the rows?

**22    25    8**

**12    15    9**

- (a) 24
- (b) 26
- (c) 20
- (d) 22
- (e) None of these

**Q38.** What is the resultant of second row if B is the resultant of first row?

**12    9    6**

**14    B    12**

- (a) 17
- (b) 16
- (c) 20
- (d) 18
- (e) None of these

**Q39.** What is the division of the resultant of both rows?

**12    30    4    8**

**8    22    14    16**

- (a) 4
- (b) 6
- (c) 5
- (d) 2
- (e) None of these

**Q40.** What is the difference of resultant of both the rows?

**14    15    35**

**7    17    22**

- (a) 6
- (b) 4
- (c) 8
- (d) 9
- (e) None of these

**Directions (41-45):** There are two rows given and to find out the resultant of a particular row, we need to follow the particular steps:

**Step I:** If an even number (but not square) is followed by an odd number, then resultant will be the addition of both numbers.

**Step II:** If an odd number is followed by an even number (but not cube), then the resultant will be the multiplication of both numbers.

**Step III:** If an odd number is followed by a cube number (but not an odd number), then the resultant will be the difference of both numbers.

**Step IV:** If an even number is followed by another even number, then the resultant will be the addition of a smaller number with 7.

**Step V:** If a square number is followed by an odd number, then the resultant will be the highest number among both the numbers.

**Q41.** What is the difference of resultant of both the rows?

**12    8    6**

**9    7    14**

- (a) 38
- (b) 36
- (c) 42
- (d) 40
- (e) None of these

**Q42.** What is the addition of the resultant of both the rows?

**2    5    14    6**

**4    7    2    5**

- (a) 32
- (b) 35
- (c) 39
- (d) 30
- (e) None of these

**Q43.** What is the twice of the number which is the resultant of second row if X is the resultant of the first row?

**8    27    8**

**4    9    X**

- (a) 56
- (b) 58
- (c) 54
- (d) 64
- (e) None of these

**Q44.** What is the three times of the number which is the difference of resultant of both the rows?

**6    10    12**

**8    24    64**

- (a) 322
- (b) 324
- (c) 332
- (d) 321
- (e) None of these

**Q45.** What is the division of the resultant of both rows?

6 4 6 9

3 8 2 8

- (a) 5
- (b) 10
- (c) 7
- (d) 6
- (e) None of these

**Directions (46-47):** Answer the questions based on the information given below.

A @ B means A is not smaller than B  
A & B means A is neither smaller than nor equal to B  
A % B means A is neither greater than nor equal to B  
A # B means A is not greater than B  
A \$ B means A is neither smaller than nor greater than B

**Q46. Statements:** M % B # R @ Q & S \$ N, N % V @ P \$ O @ L

**Conclusion:** I. L % B                      II. R & N

- (a) Only I is true
- (b) Only II is true
- (c) Either I or II is true
- (d) Neither I nor II is true
- (e) Both I and II are true

**Q47. Statements:** S % A # T & U @ H \$ L, P % Q # U \$ O & J

**Conclusion:** I. L & P                      II. S % Q

- (a) Only I is true
- (b) Only II is true
- (c) Either I or II is true
- (d) Neither I nor II is true
- (e) Both I and II are true

**Q48.** Which of the following combination of alphabets should be placed in the blank sequentially in the given expression in order to make the expressions  $A > B$  always true?

$\_ > \_ = \_ \geq \_ > \_ < \_$

- (a) A, C, D, E, F, B
- (b) B, C, D, E, A, F
- (c) C, A, D, B, E, F
- (d) B, E, F, C, A, D
- (e) A, E, F, D, B, C

**Q49.** Which of the following symbols should replace this question mark in the given expression in order to make the expressions  $P > Q$  and  $Q < R$  always true respectively?

$H < I \geq J > P ? A \geq B = Q \leq O ? R = L$

- (a) =, <
- (b)  $\geq$ , =
- (c) >, <
- (d) >, =
- (e) <,  $\leq$

**Directions (50-51):** In the following question the relationship between different elements are given in the statements followed by conclusions. Read the statements carefully and mark your answer accordingly.

**Q50. Statements:**  $Q > R \geq V, V \leq Y < Z = O, K \leq L < O = M \geq N$

**Conclusions:** I.  $V > M$                       II.  $Z > K$                       III.  $Q < Z$

- (a) Only I and II are true
- (b) Only II and III are true
- (c) Only II is true
- (d) Only I and III is true
- (e) None is true

**Q51. Statements:**  $T \leq K > Q \geq M, M < N \geq S, S > R = P \geq L$

**Conclusions:** I.  $N > P$                       II.  $S < K$                       III.  $R > M$

- (a) Only I is true
- (b) Only II and III are true
- (c) Only II is true
- (d) Only I and III is true
- (e) None is true

**Directions (52-54):** Read the following information carefully and answer the questions below.

A family consists of nine members. There are more female members than male members. B has two sons. F is the daughter of H and C is the mother of D. G who is the brother of F, is the son of D who is the son of B. B is the grandfather of I who is not a sibling of F. C has a child E who is married to A.

**Q52.** How is A related to F?

- (a) Uncle
- (b) Aunt
- (c) Brother
- (d) Sister
- (e) Sister-in-law

**Q53.** Who is the grandmother of I?

- (a) A
- (b) D
- (c) H
- (d) C
- (e) None of the above

**Q54.** How is H related to B?

- (a) Daughter-in-law
- (b) Son-in-law
- (c) Sister-in-law
- (d) Brother-in-law
- (e) None of the above

**Directions (55-57):** Answer the questions based on the information given below.

If A @ B means A is Mother of B,

A # B means A is Father of B,

A % B means A is Sister of B,

A & B means A is married to B,

A \$ B means A is Brother of B.

**Q55.** In expression (P@R&L\$K#T&S%U), If U is a male member of the family, then, how is T related to P's daughter?

- (a) Son
- (b) Son-in-law
- (c) Nephew
- (d) Niece
- (e) None of the above

**Q56.** In expression (U%S&K@R\$M%T#Q\$L), how is Q related to M?

- (a) Son
- (b) Daughter
- (c) Nephew
- (d) Niece
- (e) None of the above

**Q57.** In expression (U%S&K@R\$M%T#Q\$L), how is U related to T?

- (a) Maternal aunt
- (b) Paternal aunt
- (c) Sister-in-law
- (d) Uncle
- (e) None of the above

**Directions (58-60):** Answer the questions based on the information given below.

Nine persons (P, Q, R, S, T, U, V, W, and X) belong to a family of two generations. U is married to son-in-law of P. X is mother-in-law of R who is a male member. Neither Q nor U is married to R. X has only two daughters and has one brother who is married. V is father of S who is nephew of P. X, Q and T are of same gender. S has no sibling. Q is not younger to T.

**Q58.** How is Q related to T's mother?

- (a) Brother
- (b) Sister
- (c) Sister-in-law
- (d) Brother-in-law
- (e) None of the above

**Q59.** Which of the following pair is not a married couple?

- (a) V and Q
- (b) P and X
- (c) W and U
- (d) R and T
- (e) S and W

**Q60.** How many female members are in the family?

- (a) Three
- (b) Two
- (c) Four
- (d) More than four
- (e) Can't be determined

**Directions (61-65):** Answer the questions based on the information given below.

12 shelves are in a cupboard such that the bottommost shelf is numbered as 1 and the shelf immediately above it is numbered as 2 and so on. Some shelves contain different laptops.

S6 contains Avita. S1 is three places above S4. Either S4 or S1 is a prime numbered shelf. Not less than three shelves are above S1. The shelf which contains Apple is not an odd numbered shelf. S5 is two shelves above the shelf which contains Apple. As many shelves are above S5 as below S3 which contains Acer. Shelf which contains HP is three shelves above S3. Shelves which contain HP and Lenovo are adjacent shelves. As many shelves are below the shelf which contains Lenovo as above S6. S2 which contains Sony is immediately below S1. Three shelves are between S2 and the shelf which contains Apple.

**Q61.** Which of the following shelf is three places above the shelf which contains Lenovo?

- (a) S4
- (b) S2
- (c) S6
- (d) S1
- (e) None of these

**Q62.** If S8 is two shelves below the shelf which contains HP then, how many shelves are between S8 and the shelf which contains Apple?

- (a) More than seven
- (b) Six
- (c) Seven
- (d) Four
- (e) None of these



**Q63.** As many shelves are between S6 and S5 as between \_\_\_ and \_\_\_.

- (a) S5, S4
- (b) S2, S5
- (c) S6, S4
- (d) S3, S4
- (e) None of these

**Q64.** Which of the following statement (s) is/are definitely not correct?

- (a) S3 is 1<sup>st</sup> shelf
- (b) S4 contains HP
- (c) S5 is 12<sup>th</sup> shelf
- (d) Three shelves are between S2 and S6
- (e) None is correct

**Q65.** Four from the following are similar in a certain way and forms a group. Find out the one which does not belong to that group.

- (a) S6
- (b) S5
- (c) S4
- (d) S2
- (e) S3

**Directions (66-70):** Answer the questions based on the information given below.

Ten persons (A, E, I, O, P, Q, R, S, T, and V) live on different floors in a ten-floor building. The bottommost floor is numbered as 1 and the topmost floor is numbered as 10. Each person uses different phone (MI, Vivo, Oppo, Samsung, Apple, Motorola, Lenovo, Nokia, Realme and Oneplus).

Note: The person whose name is a vowel, does not live on a prime numbered floor.

I lives three floors above A. The person who uses Oppo, lives immediately above I. P doesn't use Oneplus. Three persons live between P and V. P lives on an odd numbered floor above I but below E. The person who uses Motorola, lives two floors below V. As many persons live above the person who uses Motorola as below the person who uses Apple. Q who uses Realme, lives immediately above S. R who uses Samsung, doesn't live below T. O lives two floors above E who doesn't live on 6th floor. The person who uses Lenovo, lives on an odd numbered floor above 4th floor. Neither P nor T uses Vivo or MI.

**Q66.** Who among the following uses Lenovo?

- (a) V
- (b) S
- (c) A
- (d) T
- (e) None of these

**Q67.** Who among the following lives on the 4<sup>th</sup> floor?

- (a) The person who use MI
- (b) The person who use Vivo
- (c) The person who use Apple
- (d) The person who use One plus
- (e) Can't be determined

**Q68.** How many persons live below the person who lives three floors below the person who uses Apple?

- (a) Four
- (b) Six
- (c) Five
- (d) Three
- (e) None of the above

**Q69.** Who among the following doesn't live on an even numbered floor?

- (a) O
- (b) E
- (c) Q
- (d) I
- (e) S

**Q70.** Which among the following statement is/are definitely correct regarding E?

- (a) E lives on 4<sup>th</sup> floor
- (b) E uses MI
- (c) E uses Vivo
- (d) Two persons live above E
- (e) All are correct

**Q71.** In the word, 'POMEGRANATES', if the letters of the first half of the word from the left are replaced by their immediately preceding letters as per the English alphabetical series while the remaining letters of the word are replaced by their immediate succeeding letters as per English alphabetical series, then how many vowels are there in the word after rearrangement?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of the above

**Q72.** How many pairs of letters are there in the word "CONSULTANCY" which has as many letters between them (both forward and backward) as in the English alphabetical series?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of the above



**Q73.** If we increase all the even digits by 1 and decrease all the odd digits by 2 in the number "576329846789", then how many digits will appear more than once in the new number?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of the above

**Q74.** If the letters of the word 'PHARMACEUTICAL' are arranged in English alphabetical order from the left end, then the position of how many letters remains unchanged?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of the above

**Q75.** How many pairs of letters are there in the word "COGNIZANCE" which has as many letters between them (both forward and backward) in the word as in the English alphabetical series?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of the above

**Directions (76-80):** Read the following information carefully and answer the following questions.

Twelve persons were born on two dates either 9<sup>th</sup> or 14<sup>th</sup> of six different months viz. January, March, June, July, September, and October but not necessarily in the same order.

The persons whose name starts with a letter before the letter 'M' was born in the first half of the year and the persons whose name starts with a letter after the letter 'M' was born in the second half of the year. All letters are according to the English alphabet series. Example- If a person name is Rajesh, then he will be born in the second half of the year. The persons whose name consists of even number of letters after counting the number of letters is born in the month having odd number of days and vice-versa. Example- If a person name is 'Rajesh' then he will be born in month having odd number of days because the sum of number of letters is 6.

Only one person was born between Pranav and Kumar. The number of persons were born before Gaurav is same as the number of persons were born after Yati. Only three persons were born between Kanta and Gaurav. The number of persons were born between Kanta and Shriti is same as the number of persons were born between Puja and Ram. Aayush was born before Kishan and Gopi. Neither Gopi nor Swati was born on date 9<sup>th</sup> of any month. Puja was born after Ram.

**Q76.** The number of persons were born between Gaurav and Kishan is same as persons were born between \_\_\_ and \_\_\_?

- (a) Kanta and Shriti
- (b) Kishan and Kanta
- (c) Pranav and Swati
- (d) Yati and Swati
- (e) All of these

**Q77.** How many persons were born between Kishan and Swati?

- (a) Three
- (b) Four
- (c) Two
- (d) Six
- (e) Cannot be determined

**Q78.** Yati was born on which of the following date?

- (a) 9<sup>th</sup> October
- (b) 14<sup>th</sup> October
- (c) 14<sup>th</sup> July
- (d) Cannot be determined
- (e) None of these

**Q79.** Four of the following five are alike in a certain way based on a group, which among the following does not belong to that group?

- (a) Aayush
- (b) Gopi
- (c) Kumar
- (d) Pranav
- (e) Puja

**Q80.** Who was born on 14<sup>th</sup> January?

- (a) Aayush
- (b) Gaurav
- (c) Kishan
- (d) Gopi
- (e) Cannot be determined

**Direction (81-83):** In each of the questions below some statements are given followed by some 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.

**Q81. Statements:** Only a few Car is Cycle.

Only Bike is Motor.  
Some Bike is Cycle.

**Conclusion I:** Some Bike is Car

**II:** All Car is Cycle is a possibility

**III:** Some Motor is Cycle is a possibility

- (a) Only II follows
- (b) Only III follows
- (c) Only I & II follows
- (d) Only II & III follows
- (e) None follows

**Q82. Statements:** No Rohan is Rakesh.

Only a few Rakesh is Rahul.

All Rohan is Ramesh.

**Conclusion I:** All Rahul is Rakesh is a possibility

**II:** All Rakesh is Rahul is a possibility

**III:** Some Ramesh is not Rakesh.

(a) Only II follows

(b) Only III follows

(c) Only II & III follows

(d) Only I & III follows

(e) All follows

**Q83. Statements:** Only BJP is BSP.

No BJP is INC.

Some NCP is INC.

**Conclusion I:** Some BJP is not NCP.

**II:** Some BSP is INC is a possibility

**III:** Some NCP is BSP is a possibility

(a) Only II follows

(b) Only III follows

(c) Only II & III follows

(d) Only I & III follows

(e) None follows

**Directions (84-85):** In each of the question, relationships between some elements are shown in the statements. These statements are followed by conclusions numbered I and II. Read the statements and give the answer.

(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

**Q84. Statements:**  $A \geq B < D = E > F$ ;  $D \geq G > I$ ;  $A < J \leq K$

**Conclusions:** I.  $A \geq F$

II.  $E > I$

**Q85. Statements:**  $P \geq Q \leq R = S$ ;  $Q \geq T > U$ ;  $P = L \leq M$

**Conclusions:** I.  $M = T$

II.  $M > T$

**Direction (86-90):** Study the following information carefully to answer the given questions.

In a certain code language-

“Truth Pocket legacy” is coded as “O3 G20 K5”

“Earn Money Work” is coded as “N5 V18 D18”

“Divide Exam Surprise” is coded as “H19 W4 V1”

**Q86.** What is the code for “Money”?

(a) V18

(b) G20

(c) N5

(d) D18

(e) None of these

**Q87.** What is the code for “Given Mobile”?

(a) H19 N12

(b) N12 T5

(c) T5 N10

(d) N5 D18

(e) None of these

**Q88.** What is the code for “save waste water”?

(a) H22 D20 D5

(b) H21 E5 D20

(c) S20 T5 T20

(d) D5 H21 D21

(e) None of these

**Q89.** What is the code for “Bottle down”?

(a) A5 W14

(b) B12 W14

(c) A5 W12

(d) W14 A2

(e) None of these

**Q90.** What is the code for “Coffee”?

(a) C5

(b) X5

(c) O12

(d) F15

(e) None of these

**Direction (91-95):** Study the following information and answer the questions that follow:

Twelve Children were born in six consecutive years starting from 2011 to 2016. Two of them were born in each year. They were born in the months of February and September. No two children were born in the same month of the same year.

Four children were born between A and O. B is older than E. K is younger than O. A and M were born in the month of February. Three children were born between O and F. Only four children are older than E. Only four children were born between F and E. D is older than C. H and B were born in the same months of the different year. Only one child was born between M and G. M is older than G. N is the youngest. Only three persons are older than C. G was not born in even number year. A is older than C. K was born in even number year but not in 2014.

**Q91.** How many children were born in between D and H?

(a) Five

(b) Two

(c) Four

(d) Three

(e) None

**Q92.** M born in which of the following year?

- (a) 2015
- (b) 2011
- (c) 2012
- (d) 2014
- (e) None of these

**Q93.** Who among the following was born in the same year in which O born?

- (a) A
- (b) E
- (c) G
- (d) D
- (e) None of these

**Q94.** Who among the following was born in February 2016?

- (a) K
- (b) G
- (c) D
- (d) C
- (e) None of these

**Q95.** Which of the following statement is true about F?

- (a) F was born in 2013
- (b) Only two persons were born after F
- (c) H born immediate before F
- (d) More than three persons were born in F and O
- (e) Both (b) and (d)

**Directions (96–100):** A word and number arrangement machine when given an input of words and numbers rearranges them following a particular rule. The following is an illustration of input and rearrangement.

**Input: 50 kindle 93 life gratification 46 decode 17 smart 32 78 image**

Step I: 17 50 kindle life graduate 46 decode smart 32 78 image 93

Step II: 17 32 50 kindle life graduate 46 decode smart image 78 93

Step III: 17 32 46 kindle life graduate decode smart image 50 78 93

Step IV: 17 32 46 decode kindle life graduate image smart 50 78 93

Step V: 17 32 46 decode graduate kindle image life smart 50 78 93

Step VI: 17 32 46 decode graduate image kindle life smart 50 78 93

Step VI is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input. Input for the questions.

**Input: 69 command octal 19 around 83 lost 50 about 75 bring 36**

**Q96.** How many steps would be needed to complete the arrangement?

- (a) X
- (b) VIII
- (c) IX
- (d) VII
- (e) None of these

**Q97.** Which step number would be the following output?  
19 36 50 about around command bring lost octal 69 75 83

- (a) II
- (b) VI
- (c) V
- (d) IV
- (e) None of these

**Q98.** Which of the following would be Step I?

- (a) 19 36 50 command octal around lost about bring 69 75 83
- (b) 83 69 command octal around lost 50 about 75 bring 36 19
- (c) 19 69 about around command octal lost 50 75 bring 36 83
- (d) 19 69 command octal around lost 50 about 75 bring 36 83
- (e) None of these

**Q99.** Which of the following would be the final arrangement?

- (a) 69 75 83 about around command lost octal 19 36 50
- (b) 19 36 50 about around bring command lost octal 69 75 83
- (c) 19 36 50 69 75 83 about around bring command lost octal
- (d) 19 36 50 about lost around bring command octal 69 75 83
- (e) None of these

**Q100.** In Step IV, which of the following word/number would be on 7<sup>th</sup> position (from the right)?

- (a) Octal
- (b) Around
- (c) 69
- (d) Bring
- (e) None of these

**Direction (101-103):** In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer-

- (a) If only assumption I is implicit.
- (b) If only assumption II is implicit.
- (c) If either I or II is implicit.
- (d) If neither I nor II is implicit.
- (e) If both I and II are implicit.

**Q101. Statement:** The 'M' Cooperative Housing Society has put up a notice at its gate that sales persons are not allowed inside the society.

**Assumptions:**

- I.** All the sales persons will stay away from the 'M' cooperative Housing Society.
- II.** The security guard posted at the gate may be able to stop the sales persons entering the society.

**Q102. Statement:** "If it does not rain throughout this month, most farmers would be in trouble this year."

**Assumptions:**

- I. Timely rain is essential for farming.
- II. Most farmers are generally dependent on rains.

**Q103. Statement:** If the city bus which runs between Ram Nagar and Sant Colony is extended to Vasant Vihar, it will be convenient. — Appeal of residents of Ram Nagar to the city bus company.

**Assumptions:**

- I. The convenience of the city bus company is much more important than the needs of the consumers.
- II. The city bus company is indifferent to the aspirations of the residents of Sant Colony.

**Q104.** Which alphabet is 3rd from the left in the meaningful four-letter word formed from the first, fourth, fifth and eight letter of the word **FOUNDATION**? If more than one word is formed, then mark answer as X and no meaningful word is formed then mark answer as Z.

- (a) F
- (b) X
- (c) N
- (d) Z
- (e) D

**Q105.** If all the letters in the word **GUIDELINES** 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 U and S after the arrangement?

- (a) two
- (b) one
- (c) none
- (d) three
- (e) four

**Directions (106-107):** Answer the questions based on the information given below.

Twelve persons (T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, and T12) sit around a square table such that four persons sit at the corner and two persons each sit along the four sides of the table. The persons sit at the corner face away from the center and remaining person face towards the center of the table. The person who sits along the four sides of the table gets different monthly salary (in k) which is consecutive multiple of 5 starting from 5.

T11 whose salary is 30k sits 2nd to the right of T10. T6's salary is 5k more than T11. T8's salary is more than T7 whose salary is not 10k. T2 doesn't sit adjacent to the person who gets 15k salary. T3 sits 2nd to the right of T1. T4 who gets the highest salary sits adjacent to T1. T5 gets the lowest salary sits 4th to the left of T4. Two persons sit between T5 and T8 who sits immediate left of T7. T12 whose salary is 25k sits 2nd to the left of T8. T10 doesn't sit 3rd to the left of T3.

**Q106.** What is the salary of the person who sits immediate left of T2?

- (a) 20K
- (b) 35K
- (c) 40K
- (d) 10K
- (e) None of these

**Q107.** Which of the following persons face away from the center of the table?

- (a) T2
- (b) T9
- (c) T10
- (d) T1
- (e) All of the above

**Q108.** What is the position of T9 with respect to T10?

- (a) 2<sup>nd</sup> to the right
- (b) 3<sup>rd</sup> to the right
- (c) 3<sup>rd</sup> to the left
- (d) 2<sup>nd</sup> to the left
- (e) None of the above

**Q109.** What is the sum of T7's, T6's and T8's salary?

- (a) 60K
- (b) 75K
- (c) 70K
- (d) 65K
- (e) None of the above

**Q110.** How many persons sit between T1 and T12 when counted from the left of T12?

- (a) One
- (b) Seven
- (c) Eight
- (d) Two
- (e) Three

**Directions (111-115):** Answer the questions based on the information given below.

Eight persons (M, N, O, P, Q, R, S, and T) sit in a row such that five persons face towards the north direction and remaining person face towards the south direction. No two persons having name starting with consecutive alphabets, sit adjacent to each other. Not more than two adjacent persons face the same direction.

Note: Consider extreme right end and extreme left end of row according to the persons facing the north direction.

T doesn't sit at any of the extreme ends of row. S sits 3rd to the left of N. Q sits adjacent to N. M sits 3rd to the right of Q. Two persons sit between O and T. P and R face same direction but opposite to Q. Q faces same direction as N. Only two persons sit to the right of N.

**Q111.** How many persons sit between R and Q?

- (a) One
- (b) Two
- (c) Three
- (d) Five
- (e) None of these

**Q112.** Which of the following statements is/are definitely correct?

- I.** M and T face the same direction
  - II.** O sits 2nd to the right of P
  - III.** One person sits between N and O
- (a) Only I and II
  - (b) Only II and III
  - (c) Only I and III
  - (d) Only III
  - (e) Only II

**Q113.** What is the position of O with respect to the person who sits immediate right of P?

- (a) 4<sup>th</sup> to the left
- (b) 3<sup>rd</sup> to the right
- (c) 3<sup>rd</sup> to the left
- (d) 2<sup>nd</sup> to the left
- (e) None of these

**Q114.** Four from the following are similar in a certain way and forms a group. Find out the one who does not belong to that group.

- (a) M
- (b) T
- (c) O
- (d) S
- (e) P

**Q115.** Who among the following sits immediate right of N?

- (a) T
- (b) Q
- (c) O
- (d) M
- (e) None of these

**Directions (116-120):** Answer the questions based on the information given below.

Nine seats are arranged around a circular table, seven persons A, B, C, D, E, F and G sit on seven seats are facing towards the centre while two seats are vacant. If a person sits immediate left or immediate right of another person, then there may be more than one seat between them. Each of them works in different companies among HCL, HP, Dell, CTS, TCS, ITC and HTC but not necessarily in the same order.

A sits immediate left of E such that A's seat is adjacent to a vacant seat. Two seats are there between E's seat and F's seat. The person who works in CTS, sits on the seat which is immediate left of F's seat. C doesn't work in CTS. G's seat is immediate right of E's seat. D who works in HTC, sits adjacent to C's seat. Neither F nor G works in ITC or HP. Vacant seat is not adjacent to C's seat. F doesn't work in Dell. C's seat is fourth to the left of A's seat. A works in HCL. The one who works in Dell, doesn't sit on the seat, which is adjacent to the vacant seat.

**Q116.** Who is third person to the right of C?

- (a) A
- (b) G
- (c) E
- (d) No one
- (e) None of these

**Q117.** How many seats are there between A and F when counted from the right of F?

- (a) Three
- (b) Two
- (c) Four
- (d) Five
- (e) None

**Q118.** If the one who works in HP sits immediate left of G then who definitely works in ITC?

- (a) E
- (b) C
- (c) B
- (d) F
- (e) None of these

**Q119.** Which of the following is definitely correct?

- (a) F doesn't work in TCS.
- (b) One person sit between A and B when counted from the right of A.
- (c) D sits immediate right of vacant seats
- (d) E works in HP
- (e) None is correct



**Q120.** Four from the following are similar in a certain way and forms a group. Find out the one, which does not belong to that group.

- (a) D - HTC
- (b) G - Dell
- (c) B - CTS
- (d) A - HCL
- (e) E - HP

**Directions (121-125):** Read the following arrangement of symbols, letters, and numbers carefully and answer the questions based on it.

**& E A # L K 4 \$ 9 G P @ 8 B S M @ € 5 D % C B K 4 A 9 @ S W ¥ 6 B & 8 # I**

Step I: All the symbols which are immediately followed by a letter will be placed from the extreme left end in the same order.

Step II: If a letter is immediately followed by a symbol, then such letters are placed from the extreme right end in the same order.

Step III: The first twenty elements of the arrangement from the left end are placed from the extreme right end in the same order.

Note: Step II is performed after the completion of Step I, similarly, Step III is performed after the completion of Step II.

**Q121.** How many elements are between % and \$ in step III?

- (a) 7
- (b) 8
- (c) 9
- (d) 10
- (e) None of the above

**Q122.** Which element is 7th to the left of the 30th element from the right end after applying step III?

- (a) D
- (b) &
- (c) B
- (d) #
- (e) None of the above

**Q123.** What is the sum of the number occurring between both 'A' in step II?

- (a) 20
- (b) 30
- (c) 35
- (d) 40
- (e) None of the above

**Q124.** Which of the following pairs of elements will be there at the leftmost and rightmost places in step II?

- (a) & and 5
- (b) & and I
- (c) & and B
- (d) D and 5
- (e) None of the above

**Q125.** How many such symbol(s) are there in step II which are followed and preceded by a number?

- (a) Two
- (b) Three
- (c) One
- (d) Four
- (e) None of these

**Directions (126-130):** Read the following arrangement of numbers, symbols, and alphabets carefully.

**@ X ? K \$ 8 1 & 3 H S L Z D @ G S % + A 1 % D K G 7 & D & E @ H**

**Q126.** Which element is 11th to the right of 7th element from the left end?

- (a) S
- (b) %
- (c) +
- (d) A
- (e) None of these

**Q127.** How many letters are there in the series which are immediately followed by an odd number and preceded by consonant?

- (a) Three
- (b) Four
- (c) Two
- (d) One
- (e) None of these

**Q128.** What is the sum of the total numbers between \$ and 7 in the given series?

- (a) 9
- (b) 7
- (c) 13
- (d) 6
- (e) None of these

**Q129.** How many symbols are immediately preceded by number and immediately followed by an alphabet?

- (a) One
- (b) Two
- (c) Three
- (d) More than three
- (e) None of these

**Q130.** If all the symbols are dropped, then which of the following element is 8<sup>th</sup> to the right of 5<sup>th</sup> element from the left end?

- (a) A
- (b) 1
- (c) S
- (d) D
- (e) None of these

**Directions (131-135):** In each of the questions given below, a group of letters is given followed by some combinations of numbers/symbols. You have to find out which of the given combination correctly represents the group of letters based on the numbers/symbols codes and the conditions given below. If none of the given combinations represents the group of letters correctly, give (e) i.e., none of these as the answer.

<b>Letters</b>	D	H	I	B	S	L	P	T	A	U	E	J	R	C	Z	W	Q	G
<b>Numbers/symbols</b>	*	4	+	&	5	=	1	@	3	#	>	?	£	9	%	©	6	!

**Condition for coding the group of letters:**

- (i) If the first letter is a consonant and the last letter is a vowel, the codes for the first and the last letter are to be interchanged.
- (ii) If the first as well as the last letter is a vowel, then both are to be coded by the code for the first letter.
- (iii) If the first as well as the last letter is consonant, then both are to be coded by the code for the last letter.
- (iv) If the first letter is a vowel and the last letter is a consonant, the codes for the first and the last letter are to be coded as Ω.

**Q131.** Find the code for 'UPIHBA'?

- (a) #1+4&3
- (b) #1+4&#
- (c) #1+4&+
- (d) 31+4&3
- (e) None of the above

**Q132.** Find the code for 'GEDTWQ'?

- (a) <!\$@©6
- (b) 6!\*@©<
- (c) 6>\*@©6
- (d) 6>\*@©!
- (e) None of the above

**Q133.** Find the code for 'SLBCRJ'?

- (a) 5=&£9?
- (b) ?=&9£?
- (c) ?=&£9?
- (d) 5&=£9?
- (e) None of the above

**Q134.** Find the code for 'UAIEHG'?

- (a) Ω3+>4 Ω
- (b) Ω+3>4 Ω
- (c) #3+>4 Ω
- (d) #3+>4 !
- (e) None of these

**Q135.** Which of the following word is coded as '+6%91'?

- (a) QPZCI
- (b) PQZCI
- (c) ZPCQI
- (d) QCPZI
- (e) None of these

**Direction (136-150):** The question consists of two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

**Q136.** Seven people (A, B, C, D, E, F and G) are sitting around a circular table such that all are facing inside and two consecutive alphabetical named persons doesn't sit immediate next to each other. Who is sitting third to the left of A?

**Statements:**

- I.** B is sitting second to the right of A. D is sitting immediate left of A. E is sitting adjacent to C.
  - II.** E is sitting second to the right of F. G is sitting adjacent to D. B is sitting immediate right of F. A sits immediate right of D.
- (a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
  - (b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
  - (c) The data either in statement I alone or in statement II alone are sufficient to answer the question.
  - (d) The data given in statements I and II together are not sufficient to answer the question.
  - (e) The data in statements I and II together are necessary to answer the question.

**Q137.** Eight people (A, B, C, D, E, F, G and H) are sitting around a square table (but not necessarily in the same order) such that four people are sitting at each corner while others are sitting at the middle of each side. All of them are facing towards the center of the table. Who is sitting opposite to A?

**Statements:**

- I.** C is sitting third to the right of A who is sitting at the side. D is sitting immediate right of B who is sitting opposite to F. H is sitting third to the right of E.
  - II.** B is sitting adjacent to A. G is sitting adjacent to H. F is sitting third to the right of D.
- (a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
  - (b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
  - (c) The data either in statement I alone or in statement II alone are sufficient to answer the question.
  - (d) The data given in statements I and II together are not sufficient to answer the question.
  - (e) The data in statements I and II together are necessary to answer the question.

**Q138.** Seven boxes (A, B, C, F, G, H and I) are kept one above the other but not in the same order as given. The bottommost box is numbered as 1, just above it is numbered as 2 and so on till the topmost box is numbered as 7. How many boxes are kept between A and H?

**Statements:**

**I.** Three boxes are kept below box G. Box B is kept adjacent to box G. Two boxes are kept between box F and box B. Box C is three boxes above box H.

**II.** Two boxes are kept between box G and box I. Number of boxes kept between box C and box A is an even number. Box I is not kept at the bottom.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q139.** Seven persons (P, Q, R, S, T, U and V) were born on 1st day of seven different months (February, March, April, May, June, July, and August) of the same year but not necessarily in the same order. Which of the following statement is abundant to find who was born in March?

**Statements:**

**I.** P was born immediately before T. Three persons were born between T and V. Both V and R were born in consecutive months having 31 days.

**II.** Only R was born after V. Two persons were born between R and Q. P was born three months before Q. U was born before S but after T.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q140.** Seven boxes (S1, S2, S3, S4, S5, S6, and S7) are kept one above another but not in the same order. The bottommost box is numbered 1, just above it is numbered as 2 and so on till the topmost box is numbered as 7. How many boxes are kept below Box S3.

**Statements:**

**I.** Only three boxes are kept below S7. S4 is kept two places above S7. Two boxes are kept between S1 and S3. S3 is kept above S7.

**II.** S4 is 6th box. Three boxes are kept between S4 and S1. One box is kept between S1 and S7. S3 is kept adjacent to S7.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q141.** Seven persons P, Q, R, S, T, U, and V are living in a seven-floor building such that the bottommost floor is numbered as 1, just above it is numbered as 2 and so on till the topmost floor is numbered as 7 but not necessarily in the same order. How many persons live between S and T?

**Statements:**

**I.** Two persons live between S and P who lives on the 4th floor. Three persons live between S and Q. T lives on one of the floors above Q.

**II.** T lives on one of the even number floors above the 4<sup>th</sup> floor. Three persons live between T and Q. S lives on a floor adjacent to Q.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.



**Q142.** Six persons M, N, O, P, Q, and R are sitting in a straight row facing north but not necessarily in the same order. Who sits 3rd to the right of M?

**Statements:**

**I.** R sits 2<sup>nd</sup> to the left of P who sits 3<sup>rd</sup> from the right end of the row. Three persons sits between R and O. M does not sit adjacent to P.

**II.** R sits immediate left of M who sits 4th to the left of Q. One person sits between P and N.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q143.** There are seven members in a family. Who is the father-in-law of U?

**Statements:**

**I.** R is the daughter of Q who is married to the son of P. H and Q are the children of M. U is the only son-in-law of O. H and M are male members.

**II.** O is married to Q who is the mother of U. P and Q are siblings. U is married to I who is the son of M. M has two children.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q144.** Six persons (A, B, C, D, E and F) have different number of marbles (12, 24, 36, 40, 44 and 48) but not necessarily in the same order. Who has 24 marbles?

**Statements:**

**I.** D has 8 more marbles than E. C has twice number of marble than B. F has 4 more marbles than D. A doesn't have 12 marbles.

**II.** A has 28 more marbles than B. A has 4 more marbles than E. D has 4 marbles less than F.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q145.** Seven shelves (T1, T2, T3, T4, T5, T6, and T7) are above one another in a cupboard but not necessarily in the same order. The bottommost shelf is numbered as 1, just above it is numbered as 2 and so on till the topmost shell is numbered as 7. How many shelves are between T3 and T4?

**Statements:**

**I.** Three shelves are above T3. One shelf is between T2 and T3. T4 is three places above T5. T4 is not a prime numbered shelf.

**II.** T5 is 3<sup>rd</sup> shelf. Two shelves are between T4 and T5. T1 and T6 is immediately above and immediately below T4 respectively. T3 is above T2.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q146.** Seven functions (A, B, C, D, E, F, and G) were held on seven different days of the same week starting from Monday but not necessary in the same order. B was held on which of the day?

**Statements:**

**I.** G was held on Friday. Two functions were held between G and F. B was held three days before A.

**II.** C was held three days before D. D was held three days before E. G was held two days after B.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q147.** Seven persons (A, K, B, D, C, G, and S) live in a seven-floor building such that the bottommost floor is numbered as 1, just above it is numbered as 2 and so on till the topmost floor is numbered as 7 but not necessarily in the same order. Who lives immediately above S?

**Statements:**

**I.** Two persons live between G and A. A lives immediately below K. S lives three floors above C.

**II.** K lives immediately below C. C lives on 3rd floor. Two persons live between K and B. D lives two floors above B. S lives above A and G.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q148.** Seven boxing teams (M, N, O, P, Q, R and S) played different number of matches in a tournament but not in the same order as given. Which team played the 2nd lowest number of matches?

**Statements:**

**I.** M played the 4th lowest number of matches. Only O and S played more matches than R. N played more matches than Q.

**II.** S played more matches than R and M. O played the highest number of matches. Only three teams played more matches than M. N played more matches than Q and P.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q149.** Seven batches A, B, C, D, E, F and G (not in the same order as given) of KBC tuition, started on same day in seven months i.e., January, February, March, April, May, June and July of year 2022. How many batches started before F?

**Statements:**

**I.** Only two batches started after A. B started two months before A. C started immediately after E. D does not start in the month which has only 30 days. G started two months before F.

**II.** E started two months before B. G started immediately after B. D started three after months G. F started after A.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.

**Q150.** Seven plants (P, Q, R, S, T, U and V) are planted at certain distance from each other in a park. Plant U is in which direction with respect to plant S?

**Statements:**

**I.** Plant P is 12m west of U which is 5m south of Q. Plant V is west of Plant P.

**II.** Plant V is 15m south of Plant U which is 7m west of Plant T. Plant R is south of Plant T.

(a) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) The data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) The data given in statements I and II together are not sufficient to answer the question.

(e) The data in statements I and II together are necessary to answer the question.



**Directions (151-155):** A number and word arrangement machine when given an input rearranges the words and the numbers following a particular set of rules. An illustration is given below of it.

**Input: goal 54 keeper 65 smart 43 worker 78 always 23**

Step I: always goal 54 keeper 65 smart 43 worker 78 23

Step II: always 24 goal 54 keeper 65 smart 43 worker 78

Step III: always 24 goal 44 54 keeper 65 smart worker 78

Step IV: always 24 goal 44 keeper 54 65 smart worker 78

Step V: always 24 goal 44 keeper 54 smart 65 worker 78

Step VI: always 24 goal 44 keeper 54 smart 66 worker 78

Step VII: @lw@ys 12 g@@I 22 k@@p@r 27 sm@rt 33 w@rk@r 39

Step VIII: @%%@%% 12 %@@% 22 %@@%% 27 %%% 33 %%% 39

Step VIII is the last step of the rearrangement. Following the same set of rules rearranges the input given below and answer the questions based on it.

**Input: corn 67 field 45 ample 32 suitable 69 food 21**

**Q151.** How many steps are required to complete the arrangement?

- (a) Eight
- (b) Nine
- (c) Seven
- (d) Six
- (e) None of these

**Q152.** Which of the following is the second last step of the given input?

- (a) @mpl@ 11 c@rn 16 f@@ld 23 f@d 34 s@@t@bl@ 35
- (b) @mpl@ 11 c@rn 23 f@d 16 f@@ld 34 s@@t@bl@ 35
- (c) @mpl@ 16 f@@ld 23 f@d 11 c@rn 34 s@@t@bl@ 35
- (d) @mpl@ 11 c@rn 34 s@@t@bl@ 16 f@@ld 23 f@d 35
- (e) None of these

**Q153.** What is the position of 'field' from the right end in step VI of the arrangement?

- (a) 6<sup>th</sup>
- (b) 5<sup>th</sup>
- (c) 4<sup>th</sup>
- (d) 3<sup>rd</sup>
- (e) None of these

**Q154.** How many elements are between "32" and "food" in the step II of the given arrangement?

- (a) Two
- (b) Five
- (c) Four
- (d) Three
- (e) None of these

**Q155.** In which of the following steps " 22 corn 32 field 67" will appear in the same sequence?

- (a) Step III
- (b) Step IV
- (c) Step VIII
- (d) Step II
- (e) None of these

**Directions (156-160):** A word arrangement machine when given an input rearranges the words following a particular set of rules. An illustration is given below of it.

**Input: filu goat hunt give file bone crow live**

Step 1: filt goau hunu givd fild bond crox livd

Step II: bnod corx flid flit gvid gaou hnuu lvid

Step III: dnob xorc dlif tlif dvg uaog unuh dvil

Step IV: 23n15b 315rc 23l9f 7l9f 23v9g 6115g 6n21h 23v9l

Step V: 11@@ 9@@ 14@@ 16@@ 14@@ 13@ 9@@ 14@@

Step V is the last step of the above input. As per the rules followed in the above steps, find out in each of the given questions the appropriate steps for the given input.

**Input: deer name plum some fake deaf dumb word**

**Q156.** Which of the following word is 4th from the right end in step III?

- (a) fakd
- (b) nmad
- (c) dman
- (d) dkaf
- (e) None of the above

**Q157.** What is the sum of the numbers in step V?

- (a) 65
- (b) 75
- (c) 85
- (d) 95
- (e) None of the above

**Q158.** Which of the following word is 2nd to the left of the 4th word from the left end in step II?

- (a) dees
- (b) fkad
- (c) smod
- (d) daeg
- (e) None of these

**Q159.** How many vowels are there in step I?

- (a) 8
- (b) 9
- (c) 10
- (d) 11
- (e) None of the above

**Q160.** Which of the following is 3rd from the right end in step IV?

- (a) 855d
- (b) 23k1f
- (c) 1321lp
- (d) 22r15w
- (e) None of the above

**Directions (161-165):** A number and word arrangement machine when given an input rearranges the words and the numbers following a particular set of rules. An illustration is given below of it.

**Input: porsche 64 versache 32 nike 54 puma 76 gucci 98**

Step I: 31 porsche 64 versache nike 54 puma 76 gucci 98  
Step II: 31 hucchi porsche 64 versache nike 54 puma 76 98  
Step III: 31 hucchi 53 porsche 64 versache nike puma 76 98  
Step IV: 31 hucchi 53 oike porsche 64 versache puma 76 98  
Step V: 31 hucchi 53 oike 63 porsche versache puma 76 98  
Step VI: 31 hucchi 53 oike 63 qorsche versache puma 76 98  
Step VII: 31 hucchi 53 oike 63 qorsche 75 versache puma 98  
Step VIII: 31 hucchi 53 oike 63 qorsche 75 quma versache 98  
Step IX: 31 hucchi 53 oike 63 qorsche 75 quma 97 versache  
Step X: 31 hucchi 53 oike 63 qorsche 75 quma 97 wersache  
Step XI: 31 h#cc# 53 ##k# 63 q#rsch# 75 q#m# 97  
w#rs#ch#

Step XII: 31 @#@#@# 53 ##@# 63 @#@#@#@# 75 @#@# 97  
w#@#@#@#

Step XII is the last step of the rearrangement. Following the same set of rules rearranges the input given below and answer the questions based on it.

**Input: techno 66 xiaomi 84 samsung 94 redmi 12 apple 42**

**Q161.** How many steps are required to complete the arrangement?

- (a) 8
- (b) 9
- (c) 10
- (d) 12
- (e) None of the above

**Q162.** Which of the following is the last step of the given input?

- (a) 11 @#@#@# 41 @#@#@# 65 @#@#@#@# 83 ##@#@#@# 93 @###@#
- (b) 11 @#@#@# 41 @#@#@# 83 ##@#@#@# 93 @###@# 65 @#@#@#@#
- (c) 11 @#@#@# 65 @#@#@#@# 83 ##@#@#@# 93 @###@# 41 @#@#@#
- (d) 41 @#@#@# 11 @#@#@# 65 @#@#@#@# 83 ##@#@#@# 93 @###@#
- (e) None of the above

**Q163.** What is the position of 'techno' from the right end in step V of the arrangement?

- (a) Sixth
- (b) Fifth
- (c) Fourth
- (d) Third
- (e) None of the above

**Q164.** How many elements are between bpple and uechno in the third last step of the arrangement?

- (a) Two
- (b) Five
- (c) Four
- (d) Three
- (e) None of the above

**Q165.** In which of the following steps '41 sedmi 65 tamsung 83 techno' will appear in the same sequence?

- (a) VII
- (b) VI
- (c) IX
- (d) III
- (e) None of the above

**Directions (166-170):** Answer the questions based on the information given below:

Ten boxes are kept one above another from bottom to top such that each of the boxes is of different colour (Purple, Black, Grey, Indigo, Blue, Yellow, White, Golden, Orange and Red) but not necessarily in same order.

There is one box between Box Q and Box P. Box Q is adjacent to white colour box. Box P is immediately below yellow colour box. Yellow colour box is fourth from the top. Box M is not kept immediately above Box Q. As many boxes are there between box M and Grey colour box as between grey colour box and box K. There are two boxes between Box T and Box R. There are two boxes between White colour box and Grey colour box which is three boxes above box M. Orange colour box is immediately above Box M and immediately below Purple colour box. Golden and Blue colour box is adjacent to Box K. Number of boxes below Box R is one more than number of boxes above Box N. Box S is below Box O and above box U. Box S is of neither Golden nor Blue colour. Box T is Indigo colour box.

**Q166.** How many boxes are above box R?

- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) None of these

**Q167.** Which of the following statement is definitely false?

- I. Box M is immediately above box S.
  - II. Three boxes are between box P and Orange colour box.
  - III. Black colour box is below Box S.
- (a) Only I  
(b) Only I and II  
(c) Only II and III  
(d) Only III  
(e) None of these

**Q168.** If there are four boxes between Black and Golden box, then which of the following box is red colour box?

- (a) M  
(b) T  
(c) O  
(d) Q  
(e) None of these

**Q169.** If all the boxes are arranged in alphabetical order from top to bottom, then positions of how many boxes will remain unchanged?

- (a) One  
(b) Three  
(c) Four  
(d) Two  
(e) None of these

**Q170.** Four from the following are similar in a certain way and forms a group. Find out the one who does not belong to that group.

- (a) K  
(b) N  
(c) P  
(d) S  
(e) U

**Directions (171-175):** Answer the questions based on the information given below:

Eight persons (W, X, Y, Z, A, B, C, and D) work in the same organization on eight different designations (MD, CEO, CFO, HR, Manager, AM, Supervisor, and Intern) but not necessarily in the same order. The designations are in the decreasing order such that MD is the senior-most position and Intern is the junior-most position. Some of the persons like different fruits.

Only two persons are senior to B. X is three designations senior to Y who likes Banana. Z is two designations junior to C. The person who likes Apple is three designations junior to A. There are four designations between the person who likes Apple and the person who likes Mango. There is one designation between the designations of B and D. W who likes Peach, is immediate junior to D. The person who likes Orange is two designations senior to the person who likes Mango.

**Q171.** Who among the following likes Orange?

- (a) CEO  
(b) AM  
(c) C  
(d) D  
(e) None of these

**Q172.** If the person who likes Grapes is two designations senior to the person who likes Kiwi, then, which of the following statement is/are definitely correct?

- I. X likes Grapes
  - II. X likes Kiwi
  - III. C likes Kiwi
- (a) Only I  
(b) Only I and II  
(c) Only II and III  
(d) Only I and III  
(e) None of these

**Q173.** The person who likes Apple is how many designations junior to Y?

- (a) Two  
(b) One  
(c) Three  
(d) Either One or Three  
(e) None of these

**Q174.** Who among the following is immediate senior to A?

- (a) X  
(b) C  
(c) B  
(d) Y  
(e) None of these

**Q175.** Four from the following are similar in a certain way and forms a group. Find out the one which does not belong to that group.

- (a) W - CFO  
(b) Y - Intern  
(c) Z - AM  
(d) D - CEO  
(e) X - Manager

**Directions (176-180):** Answer the questions based on the information given below:

Nine people i.e., A, B, C, D, E, M, N, O, and P live on nine different floors of a building but not necessarily in same order. Each floor is of different colour among White, Yellow, Magenta, Green, Red, Pink, Purple, Blue and Teal but not necessarily in same order. The bottommost floor is numbered as 1, the floor above it as 2, and so on.

O lives on a prime numbered floor above the floor number 4. O lives on red coloured floor. B lives two floors below O's floor. B does not live on a blue-coloured floor. A prime numbered floor is coloured as Blue. There is one floor between blue and purple coloured floor. No odd numbered floor is coloured as purple. As many people live below P's floor as above M's floor. N lives three floors above P but not in purple coloured floor. Green coloured floor is not below purple coloured floor. White coloured floor is three floors above green coloured floor. Pink coloured floor is below Magenta coloured floor. Yellow coloured floor is immediately above Magenta coloured floor. N does not live on Magenta coloured floor. C lives on an odd floor but not on the bottommost floor. One of the prime numbered floors is Teal coloured floor. E does not live adjacent to D's floor. A lives on an even numbered floor.

**Q176.** Who is living on floor 6?

- (a) E
- (b) P
- (c) D
- (d) M
- (e) None of these

**Q177.** How many floors are there between Pink and Magenta coloured floor?

- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) None of these

**Q178.** Which of the following statement is not correct?

- (a) C lives on Magenta coloured floor.
- (b) M lives on floor number 4.
- (c) Floor 2 is coloured as Blue.
- (d) There are four floors above P's floor.
- (e) All the statements are correct.

**Q179.** Floor numbered 3 has which of the following colour?

- (a) Yellow
- (b) Blue
- (c) Teal
- (d) Green
- (e) None of these

**Q180.** Four from the following are similar in a certain way and forms a group. Find out the one who does not belong to that group.

- (a) N
- (b) C
- (c) O
- (d) B
- (e) P

**Direction (181-185):** Study the following information carefully and answer the questions given below:

Adarsh is going to park from Monday to Sunday (Starting from Monday and ending on Sunday) in different time slot. Time slots are 6:00am, 7:00am, 7:15am, 8:30am, 9:30am, 11:30am and 11:45am. Order of the time slot must be different from the one mentioned above. Consecutive time slot as mentioned above will not be necessarily on consecutive days.

Adarsh is going at 9:30am on Tuesday. There is 15min gap between the Thursday and Sunday time slot. There is one-hour gap between the time slot of Saturday and Wednesday. There are three days gap between 6:00am and 11:30am time slots. Monday time slot is after Friday time slot.

**Q181.** What is the time difference between Monday and Sunday time slot?

- (a) 1 hour
- (b) 2 hours
- (c) 3 hours
- (d) 4 hours
- (e) 5 hours

**Q182.** What is the time slot of Thursday?

- (a) 7:15 am
- (b) 7:00 am
- (c) 11:30 am
- (d) 8:30 am
- (e) 11:45 am

**Q183.** If the time slots are arranged in descending order from Monday to Sunday, then how many time slots will remain unchanged?

- (a) One
- (b) Two
- (c) None
- (d) Three
- (e) None of these

**Q184.** What is the time slot is just before 11:30 am according to the arrangement?

- (a) 8:30 am
- (b) 7:00 am
- (c) 6:00 am
- (d) 9:30 am
- (e) None of these

**Q185.** If the person is getting 15 min late on Sunday, then what time he reaches to the park?

- (a) 6:15 am
- (b) 7:15 am
- (c) 11:45 am
- (d) 8:45 am
- (e) None of these

**Direction (186-189):** 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: cement 14 australia 75 fun 58 governor 22 earlier 55**

Step I: australia cement 14 75 fun 58 governor earlier 55 22  
Step II: earlier australia cement 75 fun 58 governor 55 22 14  
Step III: governor earlier australia cement 75 fun 58 22 14 55  
Step IV: cement governor earlier australia fun 58 22 14 55 75  
Step V: fun cement governor earlier australia 22 14 55 75 58  
Step V is the final step of given input. Answer the following questions based on the following input: -

**Input: goa 35 minister 45 grass 86 national 33 eliminating**

**Q186.** Which of the following element is 3<sup>rd</sup> from right in Step III?

- (a) 33
- (b) 35
- (c) 45
- (d) 86
- (e) None of these

**Q187.** How many steps is required to get output?

- (a) Two
- (b) One
- (c) Three
- (d) Four
- (e) Five

**Q188.** What is the total sum of 3<sup>rd</sup> element from left in step I and 2<sup>nd</sup> element from right in step III?

- (a) 68
- (b) 70
- (c) 78
- (d) 80
- (e) None of these

**Q189.** In which of the following step 'goa grass 86' is found in the same order?

- (a) Step III
- (b) Step I
- (c) Step II
- (d) Step IV
- (e) None of these

**Directions (190-194):** Study the following information carefully and answer the questions given below:

Six persons R, Z, G, L, T, and F are going for a holiday on different days of the week from Monday to Saturday but not necessarily in the same order. They work at different posts i.e., Clerk, PO, SO, Assistant Manager, Manager and Cashier.

Three persons are going for a holiday between the Cashier and Clerk who is not going for holiday on Monday. PO who is not an immediate neighbor of either Cashier or Clerk is going for a holiday immediately before Z. The Manager is not going for a holiday on Monday. No one is going for a holiday between SO and F who is a cashier. T is not going for a holiday after Wednesday. L is neither PO nor Manager. Two persons are going for a holiday between T and Z. R is not the Manager.

**Q190.** Who is going for a holiday on Thursday?

- (a) Manager
- (b) PO
- (c) R
- (d) Both (a) and (b)
- (e) Both (b) and (c)

**Q191.** Who is an Assistant Manager?

- (a) L
- (b) G
- (c) T
- (d) Z
- (e) None of these

**Q192.** Which of the following is true regarding G?

- (a) G is going for holiday on Friday
- (b) G is an Assistant Manager
- (c) Two persons are going for holiday after G
- (d) G is not going after T
- (e) None of these

**Q193.** Four of the following five are alike in a certain way and belongs to a group. Which of the following does not belong to that group?

- (a) L-Assistant Manager
- (b) G-Manager
- (c) T-Clerk
- (d) Z-SO
- (e) R-Cashier



**Q194.** Number of persons going for holiday before G is same as the number of persons going for holiday after \_\_\_\_\_

- (a) Z
- (b) T
- (c) R
- (d) F
- (e) None of these

**Q195.** In the word "INVESTMENT" all the consonants are written as their preceding letter and all the vowels are written as their following letter according to the English alphabetical series. Now all the letters are arranged in alphabetical order from left to right and all the repeated letters are eliminated. Then how many such pairs of letters are there each of which have as many letters between them in the word (both forward and backward) as they have in the English alphabetical series.

- (a) Two
- (b) Three
- (c) One
- (d) None
- (e) More than Three

**Directions (196-200):** Study the following information carefully and answer the questions given below:

Eight persons A, B, C, D, E, F, G and H are sitting around circular table facing the center but not necessarily in the same order. They like different colors red, blue, green, orange, grey, violet, white and pink.

Two persons are sitting between the one who likes green color and the one who like white color. Two persons are sitting between B and E who is sitting next to the one who likes green color. G who likes pink color faces B. H who does not like white is sitting immediate left of A who likes orange. One person is sitting between the one who likes white and the one who likes violet. The one who likes violet does not sit next to the one who likes green. C is sitting second to the right of the one who likes red color who is sitting third to the left of the one who likes grey color. B does not like grey color. F who likes blue color is sitting second to the right of D who is sitting next to B.

**Q196.** How many persons are sitting between A and G when counting from left of A?

- (a) One
- (b) Three
- (c) Two
- (d) Four
- (e) None of these

**Q197.** Four of the following five belongs to a group. Which of the following does not belong to that group?

- (a) H-blue
- (b) A-green
- (c) B-pink
- (d) E-white
- (e) F-orange

**Q198.** Who amongst the following likes green color?

- (a) A
- (b) C
- (c) D
- (d) Cannot be determined
- (e) G

**Q199.** Who amongst the following faces the one who likes grey color?

- (a) E
- (b) C
- (c) D
- (d) A
- (e) None of these

**Q200.** Who is sitting third to the left of the one who likes red color?

- (a) E
- (b) The one who likes white color
- (c) A
- (d) The one who likes violet color
- (e) None of these

## Solutions

**Solution (1-5):**

Step I: In each number, 1st digit interchanges with 4th digit, 2nd digit interchanges with 5th digit and 3rd digit remains in its original position.

Step II: 1st and 2nd digit interchange their position similarly 4th and 5th digit interchange their position and 3rd digit remains in its original position.

Step III: It repeats the process of step I.

Step IV: Digits of the numbers are arranged in descending order.

Step V: The digits of the numbers are added.

Step VI: If the sum of digits is even number then % is written else @ is used.

**Input: 74891 68974 36289 98317 62598**

Step I: 91874 74968 89236 17398 98562

Step II: 19847 47986 98263 71389 89526

Step III: 47819 86947 63298 89371 26589

Step IV: 98741 98764 98632 98731 98652

Step V: 29 34 28 28 30

Step VI: @ % % % %



- S1. Ans.(a)  
 S2. Ans.(c)  
 S3. Ans.(b)  
 S4. Ans.(b)  
 S5. Ans.(d)

**Solution (6-10): In Step I:** '1' is added to all the even numbers, and '1' is subtracted from all the odd numbers and rest elements are written as it is.

**In Step II:** If the 1st alphabet of the word from the left end is a consonant, then, it will be replaced by its succeeding alphabet, and if the 1st alphabet of the word from the left end is a vowel, then, it will be replaced by its preceding alphabet in the English alphabetical series. Rest elements are written as it is.

**In Step III:** Highest number is written at the extreme left end. And the word, which comes first in alphabetical order, is written immediately after the highest number.

**In Step IV to last step:** 2nd highest number is written at the extreme left end. And the word, which comes 2nd in alphabetical order, is written immediately after the 2nd highest number. This is repeated for remaining numbers and words till the last step.

**Input: 44 divine 29 circular 38 european 55 delicious 16 ancestors**

Step I: 45 divine 28 circular 39 european 54 delicious 17 ancestors

Step II: 45 eivine 28 dircular 39 duropean 54 eelicious 17 zncestors

Step III: 54 dircular 45 eivine 28 39 duropean eelicious 17 zncestors

Step IV: 45 duropean 54 dircular eivine 28 39 eelicious 17 zncestors

Step V: 39 eelicious 45 duropean 54 dircular eivine 28 17 zncestors

Step VI: 28 eivine 39 eelicious 45 duropean 54 dircular 17 zncestors

Step VII: 17 zncestors 28 eivine 39 eelicious 45 duropean 54 dircular

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

**Solution (11-15):** In the first step, the largest number and the word, which is last word (as per English Dictionary) are placed at the extreme left and extreme right ends respectively. In the next step, the second largest number and the word, which is 2nd last word (as per English Dictionary) are placed after the largest number and before the last word (according to English dictionary) respectively.

After arrangement of all the numbers and the word, the number of alphabets in the word is multiplied by the place value of the first letter of the word according to English alphabetical series and the number in will remain same as they are in previous step.

**Input: 64 36 great brave 29 ego courage 58 hostile 82**

Step I: 82 64 36 great brave 29 ego courage 58 hostile

Step II: 82 64 36 brave 29 ego courage 58 great hostile

Step III: 82 64 58 36 brave 29 courage ego great hostile

Step IV: 82 64 58 36 29 brave courage ego great hostile

Step V: 82 64 58 36 29 10 21 15 35 56

- S11. Ans.(b)  
 S12. Ans.(d)  
 S13. Ans.(d)  
 S14. Ans.(b)  
 S15. Ans.(a)

**Solution (16-20):**

**Sol. Symbols:** The symbols are coded as per the number of vowels in the words. If the number of vowels in the word is even then "@", and if the number of vowels in the word is odd then "#".

**Alphabets:** The alphabet is coded as the next letter of the 1st letter of the word from the left end.

**Numbers:** The numbers are coded as the positional value in the English Alphabetical series of the last letter of the word from the left end. Ex-Corner is coded as @D18.

There are two vowels-@, next letter of C is D, position of the last letter, i.e., R is 18.

- S16. Ans.(a)  
 S17. Ans.(a)  
 S18. Ans.(b)  
 S19. Ans.(d)  
 S20. Ans.(c)

**Solution (21-25):**

**Step I:** The first element of the code is 3rd succeeding alphabet (as per alphabetical series) of the 2nd last alphabet of the word.

**Step II:** The second element is the symbol based on the number of letters.

If the number of letters is even - @, if the number of letters is odd - #

**Step III:** The difference between the positions 1st and last alphabets of the word is obtained. For, e.g., AFRAID - L@3 [I + 3 = L, even number of letters, so @, difference of A and D is 3].

- S21. Ans.(a)  
 S22. Ans.(a)  
 S23. Ans.(b)  
 S24. Ans.(b)  
 S25. Ans.(d)

**Solution (26-30):**

Words	Codes
Mentally	uba/cba
Peace	hba
Healthy	sba
Fitness	fba
Training	cba/uba
Exercise	vba
Are	xba
Daily	zba
Rivers	oba

**S26. Ans.(a)****S27. Ans.(e)****S28. Ans.(d)****S29. Ans.(b)****S30. Ans.(a)****S31. Ans.(b)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 7.

In row 2, according to the given step, resultant of row 2 is 11.  
Hence, required sum =  $7 + 11 = 18$ .

**S32. Ans.(b)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 25.

In row 2, according to the given step, resultant of row 2 is 25.  
Hence, required multiplication =  $25 \times 25 = 625$ .

**S33. Ans.(c)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 11.

In row 2, according to the given step, resultant of row 2 is 23.  
Hence, required difference =  $23 - 11 = 12$ .

**S34. Ans.(a)**

**Sol.** In row 2, according to the given step, resultant of row 2 is 168. So,  $X = 168$

In row 1, according to the given step, resultant of row 1 is 42.

**S35. Ans.(d)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 72.

In row 2, according to the given step, resultant of row 2 is 42.  
So, sum of the resultants =  $72 + 42 = 114$   
Hence, half of the number =  $114 / 2 = 57$ .

**S36. Ans.(a)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 3.

In row 2, according to the given step, resultant of row 2 is 7.  
Hence, required multiplication =  $7 \times 3 = 21$ .

**S37. Ans.(c)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 19.

In row 2, according to the given step, resultant of row 2 is 1.  
Hence, required sum =  $19 + 1 = 20$ .

**S38. Ans.(a)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 9. So,  $B = 9$

In row 2, according to the given step, resultant of row 2 is 17.

**S39. Ans.(d)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 4.

In row 2, according to the given step, resultant of row 2 is 8.  
Hence, required division =  $8 \div 4 = 2$ .

**S40. Ans.(b)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 25.

In row 2, according to the given step, resultant of row 2 is 29.  
Hence, required difference =  $29 - 25 = 4$ .

Solution (41-45):

**S41. Ans.(b)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 90.

In row 2, according to the given step, resultant of row 2 is 126.  
Hence, required difference =  $126 - 90 = 36$ .

**S42. Ans.(a)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 13.

In row 2, according to the given step, resultant of row 2 is 19.  
Hence, required sum =  $19 + 13 = 32$ .

**S43. Ans.(c)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 27,  $X = 27$ .

In row 2, according to the given step, resultant of row 2 is 27.  
Hence, twice of resultant of second row =  $27 \times 2 = 54$ .

**S44. Ans.(d)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 156

In row 2, according to the given step, resultant of row 2 is 49.  
So, difference of resultant of both rows = 107  
Hence, thrice of resultant =  $3 \times 107 = 321$ .

**S45. Ans.(a)**

**Sol.** In row 1, according to the given step, resultant of row 1 is 75

In row 2, according to the given step, resultant of row 2 is 15.  
Hence, required division =  $75 \div 15 = 5$ .

S46. Ans.(b)

Sol. I.  $L\%B - L < B$  - False

II.  $R \& N - R > N$  - True

S47. Ans.(d)

Sol. I.  $L \& P - L > P$  - False

II.  $S\% Q - S < Q$  - False

S48. Ans.(e)

Sol. From option (e): placing the alphabets given in option (e) in the given inequality, ( $A > E = F \geq D > B < C$ ) it satisfies the given condition.

S49. Ans.(c)

Sol. From option (c): Replacing the sign given in option (c) in the given inequality. ( $H < I \geq J > P > A \geq B = Q \leq O < R = L$ ) it satisfies the given condition.

S50. Ans.(c)

Sol. I.  $V > M$  - False

II.  $Z > K$  - True

III.  $Q < Z$  - False

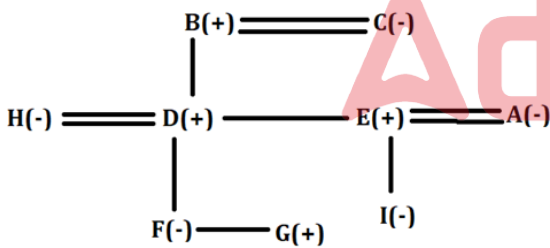
S51. Ans.(a)

Sol. I.  $N > P$  - True

II.  $S < K$  - False

III.  $R > M$  - False

Solution (52-54):



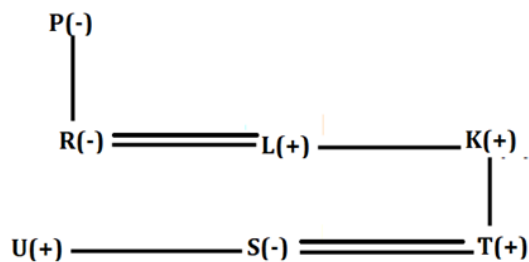
S52. Ans.(b)

S53. Ans.(d)

S54. Ans.(a)

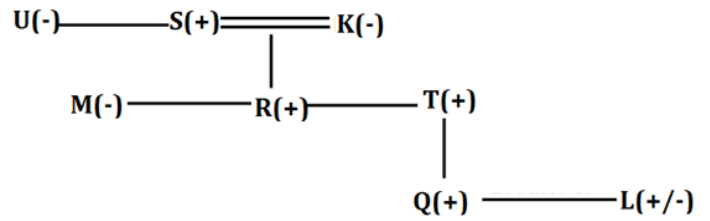
S55. Ans.(c)

Sol.



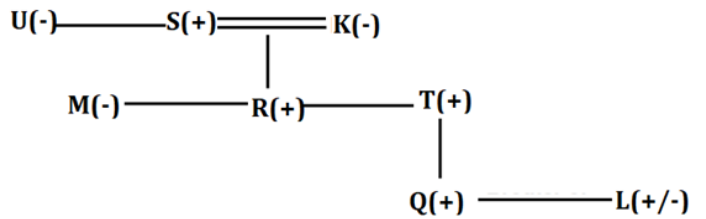
S56. Ans.(c)

Sol.



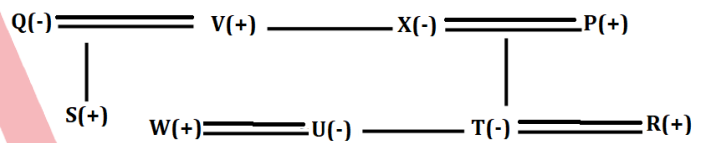
S57. Ans.(b)

Sol.



Solution (58-60):

Sol.



S58. Ans.(c)

S59. Ans.(e)

S60. Ans.(c)

Solution (61-65):

Positions	Shelves	Laptops
12	S5	--
11	--	--
10	--	Apple
9	--	--
8	S6	Avita
7	S1	--
6	S2	Sony
5	--	Lenovo
4	S4	HP
3	--	--
2	--	--
1	S3	Acer

S61. Ans.(c)

S62. Ans.(c)

S63. Ans.(c)

S64. Ans.(d)

S65. Ans.(e)

**Solution (66-70):**

Floors	Persons	Mobiles
10	O	Apple
9	R	Samsung
8	E	Vivo/MI
7	P	Nokia
6	Q	Realme
5	S	Oppo
4	I	MI/Vivo
3	V	Lenovo
2	T	One plus
1	A	Motorola

S66. Ans.(a)

S67. Ans.(e)

S68. Ans.(b)

S69. Ans.(e)

S70. Ans.(d)

S71. Ans.(c)

Sol. Given word - POMEGRANATES

After operation- ONLDFQBOBUFT

So, there are three vowels are there in the word after rearrangement.

S72. Ans.(d)

Sol.



S73. Ans.(d)

Sol. Given Number - 576329846789

After operation - 357137957597

So, four numbers will appear more than once in the new number.

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S74. Ans.(a)

Sol. Given word - PHARMACEUTICAL

After operation - AAACCEHILMPRTU

So, the position of only one letter (A) is unchanged.

S75. Ans.(c)

Sol.



**Solutions (76-80):**

Months	Dates	Persons
Jan (31)	9	Gaurav
	14	Aayush
March (31)	9	Kishan
	14	Gopi
June (30)	9	Kanta
	14	Kumar
July (31)	9	Shriti
	14	Pranav
Sept (30)	9	Ram
	14	Swati
Oct (31)	9	Puja
	14	Yati

S76. Ans.(e)

S77. Ans.(d)

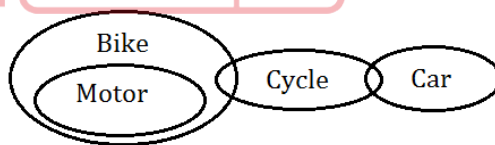
S78. Ans.(b)

S79. Ans.(e)

S80. Ans.(a)

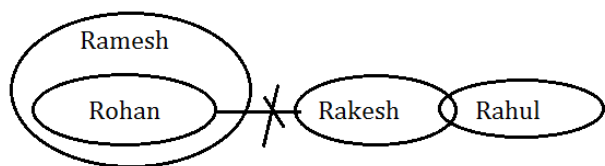
S81. Ans.(e)

Sol.



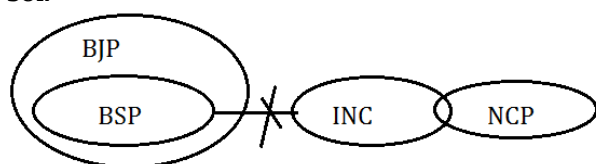
S82. Ans.(d)

Sol.



S83. Ans.(e)

Sol.



S84. Ans.(b)

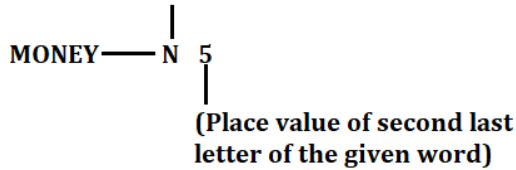
Sol. I.  $A \geq F$  (False)      II.  $E > I$  (True)

S85. Ans.(c)

Sol. I.  $M = T$  (False)      II.  $M > T$  (False)

Solutions (86-90):

(Reverse letter of first letter of given word)



S86. Ans.(c)

S87. Ans.(b)

S88. Ans.(a)

S89. Ans.(e)

S90. Ans.(b)

Solutions (91-95):

Year	February	September
2011	A	B
2012	D	C
2013	E	O
2014	M	H
2015	G	F
2016	K	N

S91. Ans.(c)

S92. Ans.(d)

S93. Ans.(b)

S94. Ans.(a)

S95. Ans.(b)

Solutions (96-100):

(i) For numbers- In this input-output two numbers are rearranging in each step. Smallest number arrange at left end and highest number is arrange at right end, then in the next step second smallest number is arranged at left end and second highest number is arrange at right end. This process is continued till all numbers are arranges.

(ii) After arranging all numbers, words are arranged in a same way, two words are arranged in each step. The word is arranged alphabetical order at the left most end and the reverse alphabetical order at the rightmost end in each step. This process is continued till all words are arranged.

**Input:** 69 command octal 19 around 83 lost 50 about 75 bring 36

Step I: 19 69 command octal around lost 50 about 75 bring 36 83

Step II: 19 36 69 command octal around lost 50 about bring 75 83

Step III: 19 36 50 command octal around lost about bring 69 75 83

Step IV: 19 36 50 about command around lost bring octal 69 75 83

Step V: 19 36 50 about around command bring lost octal 69 75 83

Step VI: 19 36 50 about around bring command lost octal 69 75 83

S96. Ans.(e)

S97. Ans.(c)

S98. Ans.(d)

S99. Ans.(b)

S100. Ans.(b)

S101. Ans.(e)

Sol. Since both the assumptions follow from the given statement, so both I and II are implicit.

S102. Ans.(e)

Sol. It is mentioned that farmers will be in trouble without rain. This means that timely rain is essential. Also, it shows that farmers are dependent on rain. So, both I and II are implicit.

S103. Ans.(d)

Sol. Clearly, the city bus company is meant to provide bus services according to the needs of the local residents and not as per their own convenience. So, I is not implicit. Again, the statement talks of an appeal of a resident of Ram Nagar. So, nothing can be said about the company's response to appeals of the residents of Sant Colony. So, II is also not implicit.

S104. Ans.(c)

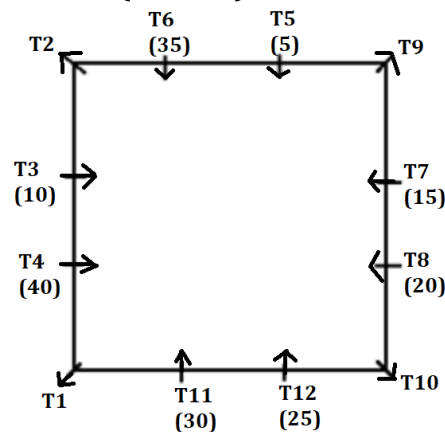
Sol. Find

S105. Ans.(e)

Sol. Original Word: GUIDELINES

Obtained Word: EEIHUDGLNS

Solution (106-110):



S106. Ans.(d)

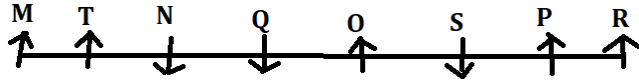
S107. Ans.(e)

S108. Ans.(c)

S109. Ans.(c)

S110. Ans.(a)

**Solution (111-115):**



**S111. Ans.(c)**

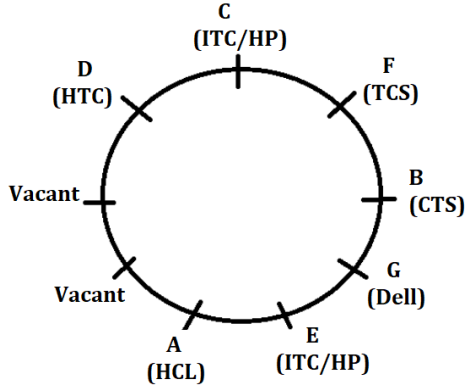
**S112. Ans.(c)**

**S113. Ans.(c)**

**S114. Ans.(d)**

**S115. Ans.(a)**

**Solution (116-120):**



**S116. Ans.(c)**

**S117. Ans.(c)**

**S118. Ans.(b)**

**S119. Ans.(e)**

**S120. Ans.(e)**

**Solution (121-125):**

**Given series -** & E A # L K 4 \$ 9 G P @ 8 B S M @ € 5 D % C B K 4 A 9 @ S W ¥ 6 B & 8 # I

**Step I:** & # % @ # E A L K 4 \$ 9 G P @ 8 B S M @ € 5 D C B K 4 A 9 S W ¥ 6 B & 8 I

**Step II:** & # % @ # E A L K 4 \$ 9 G @ 8 B S @ € 5 D C B K 4 A 9 S ¥ 6 & 8 I P M W B

**Step III:** D C B K 4 A 9 S ¥ 6 & 8 I P M W B & # % @ # E A L K 4 \$ 9 G @ 8 B S @ € 5

**S121. Ans.(a)**

**S122. Ans.(a)**

**S123. Ans.(b)**

**S124. Ans.(c)**

**S125. Ans.(a)**

**S126. Ans.(b)**

**Sol.** Given series - @ X ? K \$ 0 1 & 3 H S L Z D @ G S % + A 1 % D K G 7 & D & E @ H  
7<sup>th</sup> element from the left end - 1, Hence, 11<sup>th</sup> to the right of 1 - %

**S127. Ans.(d)**

**Sol.** Given series - @ X ? K \$ 0 1 & 3 H S L Z D @ G S % + A 1 % D K G 7 & D & E @ H  
Hence, there is one letter which is immediately followed by an odd number and preceded by consonant.

**S128. Ans.(c)**

**Sol.** Given series - @ X ? K \$ 8 1 & 3 H S L Z D @ G S % + A 1 % D K G 7 & D & E @ H  
Hence, required sum = 8 + 1 + 3 + 1 = 13.

**S129. Ans.(b)**

**Sol.** Given series - @ X ? K \$ 0 1 & 3 H S L Z D @ G S % + A 1 % D K G 7 & D & E @ H  
Hence, there are two symbols which are immediately preceded by number and immediately followed by an alphabet.

**S130. Ans.(a)**

**Sol.** Given series - @ X ? K \$ 8 1 & 3 H S L Z D @ G S % + A 1 % D K G 7 & D & E @ H  
After dropping - X K 8 1 3 H S L Z D G S A 1 D K G 7 D E H  
So, 5<sup>th</sup> element from the left end - 3: Hence, 8<sup>th</sup> to the right of 3 - A

**S131. Ans.(b)**

**Sol.** Condition (ii) is applied.

**S132. Ans.(c)**

**Sol.** Condition (iii) is applied.

**S133. Ans.(b)**

**Sol.** Condition (iii) is applied.

**S134. Ans.(a)**

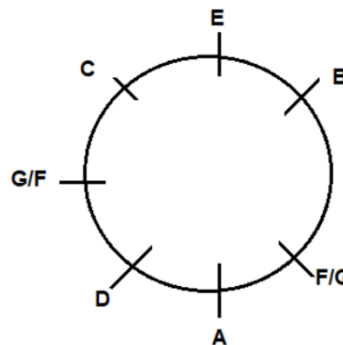
**Sol.** Condition (iv) is applied.

**S135. Ans.(b)**

**Sol.** Condition (i) is applied.

**S136. Ans.(a)**

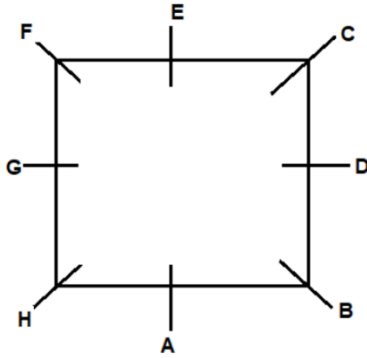
**Sol.** From statement I alone:



Hence, the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

**S137. Ans.(e)**

**Sol.** From statement I and II together:



Hence, the data in statements I and II together are necessary to answer the question.

**S138. Ans.(e)**

**Sol.** From statement I and II together:

Positions	Boxes
7	I
6	C
5	B
4	G
3	H
2	F
1	A

Hence, the data in statements I and II together are necessary to answer the question.

**S139. Ans.(b)**

**Sol.** From statement II alone:

Months	Persons
February	P
March	T
April	U
May	Q
June	S
July	V
August	R

Hence, the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

**S140. Ans.(a)**

**Sol.** From statement I alone:

Positions	Boxes
7	
6	S4
5	S3
4	S7
3	
2	S1
1	

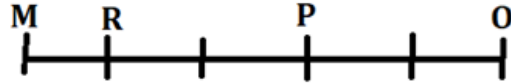
Hence, the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

**S141. Ans.(d)**

**Sol.** From the given statements we can't determine the answer. So, the data given in statements I and II together are not sufficient to answer the question.

**S142. Ans.(a)**

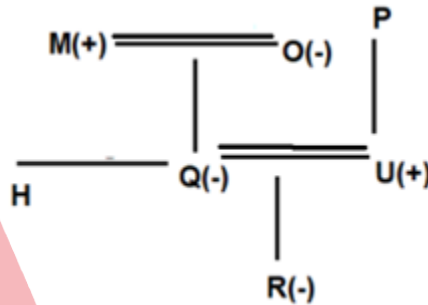
**Sol.** From statement I alone:



Hence, the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

**S143. Ans.(a)**

**Sol.** From statement I alone:



Hence, the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

**S144. Ans.(c)**

**Sol.** From statement I alone or II alone:

Marbles	Persons
12	B
24	C
36	E
40	A
44	D
48	F

Hence, the data either in statement I alone or in statement II alone are sufficient to answer the question.

**S145. Ans.(a)**

**Sol.** From statement I alone:

Positions	Shelves
7	
6	T4
5	
4	T3
3	T5
2	T2
1	

Hence, the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

**S146. Ans.(b)****Sol.** From statement II alone:

Days	Functions
Monday	C
Tuesday	
Wednesday	B
Thursday	D
Friday	G
Saturday	
Sunday	E

Hence, the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

**S147. Ans.(b)****Sol.** From statement II alone:

Floors	Persons
7	D
6	S
5	B
4	A/G
3	C
2	K
1	G/A

Hence, the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

**S148. Ans.(d)**

**Sol.** From the given statements we can't determine the answer. So, the data given in statements I and II together are not sufficient to answer the question.

**S149. Ans.(e)****Sol.** From statement I and II together:

Months	Persons
January	E
February	C
March	B
April	G
May	A
June	F
July	D

Hence, the data in statements I and II together are necessary to answer the question.

**S150. Ans.(d)**

**Sol.** From the given statements we can't determine the answer. So, the data given in statements I and II together are not sufficient to answer the question.

**Solution (151-155):**

Words and numbers are arranged alternatively in each step.

**Words:** The words are arranged in alphabetical order from the left end in alternate steps.

**Numbers:** The numbers are arranged in ascending order from left, if the number is odd then one is added to it in alternate steps.

After arranging all the words and numbers.

In the next step vowels are replaced with symbol '@' and the numbers are divided by 2.

In last step the consonants are replaced with symbol "%".

**Input:** corn 67 field 45 ample 32 suitable 69 food 21

Step I: ample corn 67 field 45 32 suitable 69 food 21

Step II: ample 22 corn 67 field 45 32 suitable 69 food

Step III: ample 22 corn 32 67 field 45 suitable 69 food

Step IV: ample 22 corn 32 field 67 45 suitable 69 food

Step V: ample 22 corn 32 field 46 67 suitable 69 food

Step VI: ample 22 corn 32 field 46 food 67 suitable 69

Step VII: ample 22 corn 32 field 46 food 68 suitable 69

Step VIII: ample 22 corn 32 field 46 food 68 suitable 70

Step IX: @mpl@ 11 c@rn 16 f@@ld 23 f@d 34 s@t@bl@ 35

Step X: @%%%@ 11 %@@% 16 %@@% 23 %@@% 34 %@@%@@% 35

**S151. Ans.(e)****S152. Ans.(a)****S153. Ans.(a)****S154. Ans.(a)****S155. Ans.(b)****Solution (156-160):**

Step I: The last letter of the word from the left end is a vowel, then it will be replaced by its previous letter and the last letter from the left end of the word is a consonant, then it will be replaced with its next letter in the English alphabetical series and the rest letters are written as it is.

Step II: Words are arranged as per English dictionary order from the left end and the place of its 2nd and 3rd letter from the left end are interchanged and the rest letters are written as it is.

Step III: The positions of the 1st and 4th letter of the word from the left end are interchanged and the rest letters are written as it is.

Step IV: The first letter of the word from the left end is replaced by its reverse positional value in the English alphabetical series and the vowels (except the first letter) are replaced with their positional value in the English alphabetical series and the rest of the letters are written as it is.

Step V: All the digits are added and consonants are replaced with the symbol @.



**Input: deer name plum some fake deaf dumb word**

Step 1: dees namd plun somd fakd deag dumc wore  
 Step 2: daeg dees dmuc fkad nmad puln smod wroe  
 Step 3: gaed seed cmud dkaf dman nulp dmos erow  
 Step 4: 2015d 855d 24m21d 23k1f 23m1n 1321lp 23m15s 22r15w  
 Step 5: 8@ 18@ 9@@ 6@@ 6@@ 7@@ 11@@ 10@@

- S156. Ans.(c)**  
**S157. Ans.(b)**  
**S158. Ans.(a)**  
**S159. Ans.(d)**  
**S160. Ans.(c)**

**Solution (161-165):** In Step I: The smallest number is subtracted by 1, and is written extreme left end.

In Step II: First, word is picked alphabetically as per its first letter, then the first letter is replaced by its just succeeding letter (in alphabetical series) and the word is written just right of the number which is arranged in step I.

In Step III: The 2nd smallest number is subtracted by 1, and is written to the just right of the word which is arranged in step II.

In Step IV: The word is picked, arranged and written as per the logic follows in step II.

This rule is followed till all the numbers and words are arranged.

After all the numbers and words are arranged, the vowels are replaced by '#' in 2<sup>nd</sup> last step and in the last step the consonants are replaced by '@'.

**Input: techno 66 xiaomi 84 samsung 94 redmi 12 apple 42**

Step I: 11 techno 66 xiaomi 84 samsung 94 redmi apple 42  
 Step II: 11 bpple techno 66 xiaomi 84 samsung 94 redmi 42  
 Step III: 11 bpple 41 techno 66 xiaomi 84 samsung 94 redmi  
 Step IV: 11 bpple 41 sedmi techno 66 xiaomi 84 samsung 94  
 Step V: 11 bpple 41 sedmi 65 techno xiaomi 84 samsung 94  
 Step VI: 11 bpple 41 sedmi 65 techno xiaomi 84 samsung 94  
 Step VII: 11 bpple 41 sedmi 65 tamsung 83 techno xiaomi 94  
 Step VIII: 11 bpple 41 sedmi 65 tamsung 83 uechno xiaomi 94  
 Step IX: 11 bpple 41 sedmi 65 tamsung 83 uechno 93 xiaomi  
 Step X: 11 bpple 41 sedmi 65 tamsung 83 uechno 93 yiaomi  
 Step XI: 11 bppl# 41 s#dm# 65 t#ms#ng 83 ##chn# 93 y###m#  
 Step XII: 11 @@@@# 41 @#@#@# 65 @#@#@#@# 83 ##@@#@# 93 @###@#

- S161. Ans.(d)**  
**S162. Ans.(a)**  
**S163. Ans.(b)**  
**S164. Ans.(b)**  
**S165. Ans.(a)**

**Solution (166-170):**

Positions	Boxes	Colour
10	O	Golden/ Blue
9	K	White
8	Q	Blue/Golden
7	N	Yellow
6	P	Grey
5	R	Purple
4	S	Orange
3	M	Black/Red
2	T	Indigo
1	U	Red/Black

- S166. Ans.(d)**  
**S167. Ans.(b)**  
**S168. Ans.(e)**  
**S169. Ans.(b)**  
**S170. Ans.(e)**

**Solution (171-175):**

Designations	Persons	Fruits
MD	D	Orange
CEO	W	Peach
CFO	B	Mango
HR	X	
Manager	A	
AM	C	
Supervisor	Y	Banana
Intern	Z	Apple

- S171. Ans.(d)**  
**S172. Ans.(d)**  
**S173. Ans.(b)**  
**S174. Ans.(a)**  
**S175. Ans.(c)**

**Solution (176-180):**

Floors	Persons	Colours
9	N	White
8	D/E	Yellow
7	C	Magenta
6	P	Green
5	O	Red
4	M	Purple
3	B	Teal
2	A	Blue
1	E/D	Pink

- S176. Ans.(b)**  
**S177. Ans.(d)**  
**S178. Ans.(d)**  
**S179. Ans.(c)**  
**S180. Ans.(e)**

**Solution (181-185):**

Days	Time slot
Monday	8:30
Tuesday	9:30
Wednesday	6:00
Thursday	11:45
Friday	7:15
Saturday	7:00
Sunday	11:30

S181. Ans.(c)

S182. Ans.(e)

S183. Ans.(b)

S184. Ans.(b)

S185. Ans.(c)

**Solution (186-189):**

Logic: One word and one number is arranged in each step.

Word: In descending order from left according to number of vowels in each word.

Number: In ascending order from right according to total sum of numeral value of all digits of each number.

**Input: goa 35 minister 45 grass 86 national 33 eliminating**

Step I: eliminating goa 35 minister 45 grass 86 national 33

Step II: national eliminating goa minister 45 grass 86 33 35

Step III: minister national eliminating goa grass 86 33 35 45

Step IV: goa minister national eliminating grass 33 35 45 86

Step V: grass goa minister national eliminating 33 35 45 86

S186. Ans.(a)

S187. Ans.(e)

S188. Ans.(b)

S189. Ans.(a)

**Solutions (190-194):**

Days	Persons	Posts
Monday	L	Assistant manager
Tuesday	T	Clerk
Wednesday	G	Manager
Thursday	R	PO
Friday	Z	SO
Saturday	F	Cashier

S190. Ans.(e)

S191. Ans.(a)

S192. Ans.(e)

S193. Ans.(e)

S194. Ans.(c)

S195. Ans.(a)

Sol.

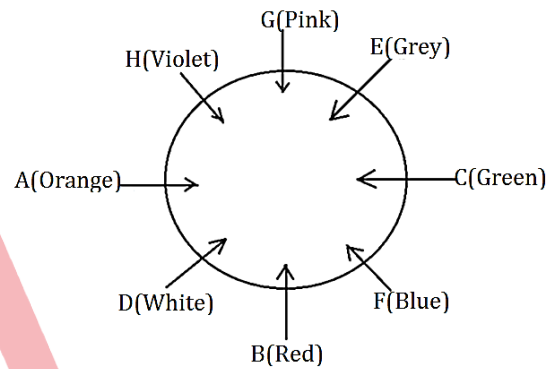
I N V E S T M E N T  
J M U F R S L F M S

FFJLMMRSSU

repeated words FJLMRSU  
are eliminated

F J L M R S U  
□ □

**Solutions (196-200):**



S196. Ans.(a)

S197. Ans.(e)

S198. Ans.(b)

S199. Ans.(c)

S200. Ans.(d)

