

**Directions (1-3): Study the following information and answer the questions given below:**

There are seven given letters A, Y, E, R, S, P and L which are arranged from left to right with facing north direction. There are three letters between the S and E. There is only one letter between E and A. R is immediate left of S. Y is immediate left of E. P and L are adjacent to each other. L is not adjacent to R.

**Q1. Who among the following is on extreme end?**

- (a) A, S
- (b) Y, S
- (c) A, P
- (d) A, R
- (e) E, S

**Q2. Who among the following is immediate right of P?**

- (a) R
- (b) L
- (c) E
- (d) A
- (e) Y

**Q3. Which letter is adjacent to E?**

- (a) Y, P
- (b) Y, L
- (c) A, S
- (d) S, L
- (e) R, Y

**Directions (4-6): Study the following alphanumeric series carefully and answer the questions given below:**

**7 A 6 P & R \$ 4 Y Q % T @ 3 9 S I O 9 9 J L E U \* K # 3**

STEP I- The letters which are immediately preceded and immediately followed by a symbol are arranged in the end of the series in the alphabetical order. (They are arranged just after 3)

STEP II- The numbers which are immediately preceded by the letter and immediately followed by the Symbol are arranged between 9 and S in the increasing order.

STEP III- The numbers which are immediately followed by letter are interchanged its position with respect to the element just after it.

(STEP II is applied after STEP I and STEP III is applied after STEP II)

**Q4. How many letters are arranged at the end of the series in the step-1?**

- (a) one
- (b) Three
- (c) Four
- (d) Five
- (e) More than five

**Q5. Which among the following are the elements of the series which are second position from the left end and fifth position from the right end in step-III?**

- (a) 63
- (b) 7#
- (c) P#
- (d) AK
- (e) 6#

**Q6. How many symbols are immediately followed by numbers in step-III?**

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

**Directions (7-9): Study the following information carefully to answer the given question.**

There are Some boxes which are arranged one above another such that one box is placed at the bottom and another box is placed just above that box and all are arranged in the same order.

Only two boxes are there in between Orange box and box U and Orange box is above box U. There is only one box in between box P and box S. Box S is of Purple color and is placed above box R. There are three boxes in between Orange box and Green box. Green box is placed below U, which is not of blue colour. Only one box is placed in between box R and Orange box. More than four boxes are placed in between box P and Orange box. There are as same boxes placed between box S and the box which is of Orange colour as same as between The box which is of orange colour and the box which is of green colour. The box which is of green colour is placed at the bottom. Not more than two boxes are placed in between box V and box S. Box R is placed just above the box of blue colour. Box V is not an immediate neighbor of Box S.

**Q7. How many boxes are there in the arrangement?**

- (a) Ten
- (b) Eleven
- (c) Fourteen
- (d) Twelve
- (e) None of these

**Q8. How many boxes are there between box R and box U?**

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

**Q9. Which box is immediately above Orange box?**

- (a) S
- (b) R
- (c) Purple box
- (d) V
- (e) Green box

**Directions (10-12): Study the following alphanumeric series carefully and answer the questions given below:**

**12AIFR**

**42 WBOL**

**63EOCN**

**15TVMR**

**75GYTR**

**Q10. How many meaningful words can be formed from the letters of the words which are attached with the numbers in which At least one digit is even digit in the given alphanumeric series?**

- (a) one
- (b) two
- (c) three
- (d) four
- (e) More than four

**Q11. The words are arranged according to the descending order of the numbers which are attached to them from left to right, then how many alphabets are between the letters of second letter from the left end and seventh letter from the right end?**

- (a) one
- (b) two
- (c) three
- (d) four
- (e) More than five

**Q12.** The letters which are attached with the numbers in which at least one is odd digit are arranged according to the ascending orders of their numbers from left to right and then all letters of the words together are arranged in the alphabetical order, then which of the following is the 9<sup>th</sup> letter from the right end?

- (a) M
- (b) O
- (c) N
- (d) R
- (e) None of these

**Directions (13-15):** Study the following information and answer the questions given below:

There are AB axis in such a way that A is in north and B is in south direction. There is XY axis in such a way that X is in west direction and Y is in east direction. AB axis and XY axis intersect at a point Q in such a way that AQ is 15m, QB is 17m, QX is 12m, QY is 24 m.

Mehul starts from point X and walks 20m in south direction and then he turns his left and walks 32m. Arun starts from point A and walks 20m in east direction. Raju starts from point Y and walks 5m in north direction and then he turns his left and walk 4m and again he turns his left and walks 22m.

**Q13.** Point B is in which direction with respect to Arun's current position?

- (a) south
- (b) south-east
- (c) south-west
- (d) west
- (e) north-west

**Q14.** Point Y is in which direction with respect to Mehul's current position?

- (a) north
- (b) east
- (c) north-east
- (d) north-west
- (e) south

**Q15.** What is distance between Raju's current position and Mehul's current position?

- (a) 3m
- (b) 5m
- (c) 13m
- (d) 22m
- (e) 27m

**Directions (16-18): Study the following information and answer the questions given below:** **prepp**  
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**Q16. Four friends are sitting around a circular table named M, N, O and P. Are they facing to the centre of table? If-**

- I.** N is sitting second to the right of P. P is facing centre. O is sitting immediate right of N and P.
  - II.** M is sitting immediate left of N. O is not sitting immediate left of M. O is sitting immediate right of P.
  - III.** P is sitting immediate of M and O. N is sitting immediate left of M. O is sitting immediate left of P.
- (a) If the data in statement I and II are sufficient to answer the question, while the data in statement III are not sufficient to answer the question.
  - (b) If the data in statement II and III are sufficient to answer the question, while the data in statement I is not sufficient to answer the question.
  - (c) If the data in statement I alone or in the statement II alone or in the statement III alone is sufficient to answer the question.
  - (d) If the data in all the statement I, II and III are necessary to answer the question.
  - (e) If the data in statement I and III are sufficient to answer the question, while the data in statement II is not sufficient to answer the question.

**Q17. Six people A, B, C, D, E and F are living in six floor building each live in one of apartment of building. In building there are from I to VI floor. Ground floor is given number I, then II and so on. Who is living on Ground floor?**

- I.** In which floor C and B are living there is only one floor between them. A is living in even number floor.
  - II.** E is not living in even number floor. B is living in even number floor. B is not living in top floor.
  - III.** D is living in odd number floor. In which floor D and A are living, there are two between them. E is living immediate next to C from down.
- (a) If the data in statement I and II are sufficient to answer the question, while the data in statement III are not sufficient to answer the question.
  - (b) If the data in statement I and III are sufficient to answer the question, while the data in statement II is not sufficient to answer the question.
  - (c) If the data in statement II and III are sufficient to answer the question, while the data in statement I is not sufficient to answer the question.
  - (d) If the data in all the statement I, II and III are necessary to answer the question
  - (e) If the data in statement I alone or in the statement II alone or in the statement III alone is sufficient to answer the question.

**Q18. Who is youngest among six family members G, H, I, J, K and L? (Each member is of different ages.)**

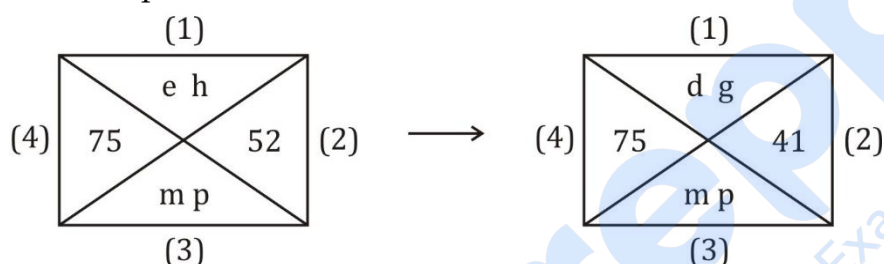
- I.** G is the daughter-in-law of J, K is grandson of L, who is the father of H.
- II.** G is not youngest while L is the eldest.
- III.** H is the father of I, who is grandson of L. J is the wife of K's son and I's father

- (a) If the data in statement I and II are sufficient to answer the question, while the data in statement III are not sufficient to answer the question.
- (b) If the data in statement I alone or in the statement II alone or in the statement III alone is sufficient to answer the question.
- (c) If the data in statement I and III are sufficient to answer the question, while the data in statement II is not sufficient to answer the question.
- (d) If the data in statement II and III are sufficient to answer the question, while the data in statement I is not sufficient to answer the question.
- (e) If the data in all the statement I, II and III are necessary to answer the question

**Directions (19-21): Study the following information and answer the questions given below:**

There is four triangles given in question on which we apply some operation individually on each triangle and then convert it into solution. We have to answer the questions from the triangle which comes after the operation applied on the given triangle.

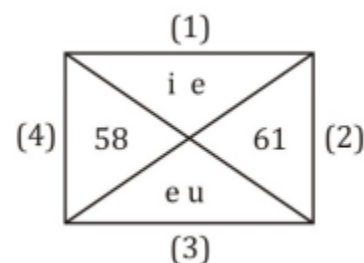
For example-



- (1) For triangle 1- if the total letter between given two letters in the triangle 1 is less than three then change each letter to previous letter according to English alphabetical series
- (2) For triangle 2- if the difference between given two digit is less than 5 then change the each digit to previous digit.
- (3) For triangle 3- if the total letters between given two letters is more than 5 then change the each letter to previous letter according to English alphabetical series.
- (4) For triangle 4- if the difference between given two digits is more than 2 then change each digits to previous digit.

**Note:- If the above condition are not applied then we write the digit and letter as it is in solution part.**

Based on the above example solve the given question.



**Q19. How many meaningful words are formed by letter combining from triangle 1 and triangle 3?**

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

**Q20. What is the sum of each digits which is obtained in triangle 2 and triangle 4?**

- (a) 17
- (b) 18
- (c) 19
- (d) 20
- (e) 16

**Q21. Which of the following letter is obtained in triangle 3?**

- (a) d, f
- (b) t, c
- (c) d, t
- (d) d, v
- (e) t, b

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**Directions (22-24):** 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-** acon 82 43 exam 16 acer loge 77 rope 22

Step I – care 82 acon 43 exam 16 loge 77 rope 22

Step II- cano 77 care 82 43 exam 16 loge rope 22

Step III- emax 43 cano 77 care 82 16 loge rope 22

Step IV- lego 22 emax 43 cano 77 care 82 16 rope

Step V- rpeo 16 lego 22 emax 43 cano 77 care 82

**Input-** 54 roll 39 back 87 25 cash seat 46 beat

**Q22.** In which of the following step 25 and seat are placed immediately?

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

**Q23.** How many elements are there between 54 and 39 in step-II?

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

**Q24.** Which elements are there between chsa and 54 in step-IV?

- (a) 46, abck
- (b) eata, 46
- (c) 87, 25
- (d) rllo, seat
- (e) None of these

**Direction (25-27):** There are two rows given and to find out the resultant of a particular row we need to follow the following steps: -

Step 1: If an even number is followed by an odd (prime) number then the resultant will be the addition of both the numbers.

Step 2: If an odd number is followed by a perfect square then the resultant will be the difference of the square number and the odd number.

Step 3: If an odd number is followed by another odd number (but not a perfect square) then the resultant will be the addition of both the numbers.

Step 4: If an even number is followed by an odd (non-prime) number then the resultant will be the difference of the odd number and the even number.

Step 5: If an odd number is followed by an even number then the resultant comes by multiplying the numbers.



**Q25. Find the sum of two rows**

|    |   |   |
|----|---|---|
| 6  | 5 | 2 |
| 11 | 4 | 3 |

- (a) 38
- (b) 32
- (c) 42
- (d) 57
- (e) None of the above

**Q26. If the sum of the resultants of two rows is 44. Then find the value of X.**

|    |   |   |
|----|---|---|
| 14 | 7 | 5 |
| 12 | X | 6 |

- (a) 3
- (b) 9
- (c) 2
- (d) 5
- (e) None of the above

**Q27. Find the difference between the resultant of first and second row.**

|    |   |    |
|----|---|----|
| 7  | 4 | 8  |
| 11 | 9 | 13 |

- (a) 2
- (b) 3
- (c) 8
- (d) 9
- (e) None of the above

**Directions (28-30): Study the following information carefully and answer the questions given below.**

There are five doctors of different types viz., Ophthalmologist, Orthopedic surgeon, Psychiatrist, General physician and Dentist in a hospital but not necessarily in same order. They attend their patients at different timing in a single day. The duration of their meeting with the patient is different. The total duration of the meeting with the patients by all doctors is of 11 hour. There is no gap between the meeting time of all doctors. The duration of meeting either full hour or half an hour but not in one third or one fourth.

The one who is orthopedic surgeon attends their patients from 12:30 to 3pm. The dentist attends their patients immediate before or immediate after the Orthopedic surgeon. The meeting hour of Dentist with the patients is three hours. The duration of meeting with patients of General physician is more than duration of meeting of Psychiatrist with patients by 1 hour. General physician attends meeting just after the meeting of Psychiatrist. The general Physician does not attend patients at the last. The Ophthalmologist attends their patients before the Orthopedic surgeon but not immediate before. The duration of meeting of Ophthalmologist is of 1.5 hours. The timing of Psychiatrist meeting is after 6:00 am.

**Q28. Who among the following attends patients from 3:00-6:00 pm?**

- (a) Ophthalmologist
- (b) Psychiatrist
- (c) General physician
- (d) Dentist
- (e) Orthopedic surgeon

**Q29. Who among the following attends patients just after the Ophthalmologist?**

- (a) General physician
- (b) Psychiatrist
- (c) Orthopedic surgeon
- (d) Dentist
- (e) None of these

**Q30. What is the duration (in hours) of the Psychiatrist's meeting with the patients?**

- (a) 2.5 hour
- (b) 3 hour
- (c) 3.5 hour
- (d) 1.5 hour
- (e) 2 hour

**Directions (31-33): Study the following information carefully and answer the questions given below:**

There are nine persons namely A, K, L, M, N, O, P, Q and R live on three different floors from one to three. Ground floor is number 1 and top floor is number third but not necessarily in the same order. There are three flats on each floor- flat-1, flat-2 and flat-3 from west to east such that flat-1 of third floor is exactly above flat-1 of second floor which is exactly above flat-1 of first floor and other flats are placed in the same way.

A lives in an even numbered flat. P lives just above M in a flat numbered 3. A does not live on the same floor on which P lives. O lives just above Q. Q does not live on the same floor on which M lives. N lives below M. L lives left to R.

**Q31. Who lives in flat-3 of first floor?**

- (a) A
- (b) K
- (c) P
- (d) N
- (e) None of these

**Q32. Who among the following lives immediate left to P?**

- (a) R
- (b) L
- (c) O
- (d) Q
- (e) None of these

**Q33. How many persons live below M?**

- (a) Two
- (b) No one
- (c) One
- (d) either (a) or (c)
- (e) None of these

**Directions (34-37):** In each of the questions below are given three statements followed by three conclusions number I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the entire conclusion and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**Q34. Statements:**

All pigs are Zebra.

All Zebra are Rabbits.

No Ant is are Pig.

**Conclusions:**

**I.** Some rabbit is Ant.

**II.** Some Zebra are Ant is a possibility.

**III.** Some Ant are Pig.

- (a) Only I follows
- (b) Only II follows
- (c) Only III follows
- (d) All follow
- (e) None of these

**Q35. Statements:**

Some bat are pen.

Some pen are Shirt.

No shirt is Coat.

**Conclusions:**

**I.** Some Coat is Pen.

**II.** Some Coat is shirt is a possibility.

**III.** All pen can be Coat

- (a) None follows
- (b) only II follows
- (c) only III follows
- (d) only I follows
- (e) only either II or III follow

**Q36. Statements:**

All Men are Rock.

Some men are pearl.

No Rock is Angel.

**Conclusions:**

I. Some men are not Angel.

II. All Pearl can be Angel is a possibility.

III. Some Angel can be Pearl is a possibility.

- (a) only I and II follow
- (b) only I and III follow
- (c) only II and III follow
- (d) All I, II and III follow
- (e) None of these

**Q37. Statements:**

Some Z are X

Some X are not U

Some V are U

**Conclusions:**

I. All U can be X

II. All V can never be Z

- (a) Only I and II follow
- (b) Only II follows
- (c) Only I follows
- (d) None follows
- (e) None of these

**Directions (38-40):** Study the following information carefully and answer the questions that follow:

There are five cars – A, B, C, D, F – parked in a row facing north direction, but not necessarily in the same order. The distances between two adjacent bikes are successive multiples of three (i.e. if the distance between the 1<sup>st</sup> and the 2<sup>nd</sup> bike is 3 m, 1<sup>st</sup> and the 3<sup>rd</sup> bike is 6m and between 1<sup>st</sup> and 4<sup>th</sup> bike is 9 m and so on.)

(i.e. suppose Car A is left end of the line at point R then the remaining people will stand at a distance as follows -3m, 6m, 9m.....from the end)

Car A is standing at the left end of the line. Two cars are standing between Car A and Car E. Car E stands second to the left of Car B. Car F is an immediate neighbor of Car C. Only one person stands between Car F and Car D. Car G which starts moving from point P which is 5m in north from Car F. Car G moves 12 m in north-east direction till point Q. Point Q and Car D are inline vertically. Car D moves 4m in the north direction and stops at point R. Car A moves in the direction to point R.

**Q38. Car A at which of the following point after moving from its starting position?**

- (a) point R
- (b) Point P
- (c) Between point P and Car F
- (d) Can't be determined
- (e) Point D

**Q39. What is the shortest distance between Car D's new position and Car F's position?**

- (a)  $\sqrt{41}$  m
- (b)  $\sqrt{52}$  m
- (c) 12 m
- (d) 21 m
- (e) None of these

**Q40. What is the distance between Car G's new position and Car D's old position?**

- (a)  $\sqrt{41}$  m
- (b)  $\sqrt{21}$  m
- (c)  $6\sqrt{3} + 5$  m
- (d)  $5\sqrt{3}$  m
- (e) None of these

**Directions (41-42):** In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumption and decide which of the assumption 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

**Q41. Statement:** Government should deploy army to rehabilitate the people displaced by earthquake.

**Assumptions**

- I. Army can be used for purposes other than war also.
- II. Only army can rehabilitate the displaced victims of earthquake.

**Q42. Statement:** A Government advertisement in public interest- "For a child's better mental health, admit him/her to a school only after five years of age."

**Assumptions**

- I. A child cannot learn before he/she turns five.
- II. Some school admit children who are below five years of age.

**Directions (43-44):** In each question below, are given a statement followed by two courses of action numbered I and II. On the basis of the information given in the statement, you have to assume everything in the statement to be true, and then decide which of the suggested courses of action logically follow(s) for pursuing.

Give answer:

- (a) if only I follows.
- (b) if only II follows.
- (c) if either I or II follows.
- (d) if neither I nor II follows.
- (e) if both I and II follow.

**Q43. Statement:** A number of school children in the local schools have fallen ill after the consumption of their subsidized tiffin provided by the school authority.

**Course of action**

- I. The tiffin facility of all schools should be discontinued with immediate effect.
- II. The government should implement a system to certify the quality of tiffin provided by the school.

**Q44. Statement:** A huge rally will be organized by the people in the locality, on a religious occasion and the police was informed accordingly.

**Course of action**

- I. Adequate police force should be deployed to oversee the procession of the rally.
- II. Vehicles on the road should be advised a diversion to avoid traffic congestion.

**Directions (45-47):** Study the following information carefully and answer the questions given below:

Eight persons namely J, K, L, M, N, O, P and Q are living in an eight-floor building with bottommost floor being the first floor while topmost floor being numbered as eighth floor. Only one person stays on one floor. All of them belong to the same family and there is only two married couple but they have different blood groups i.e. AB+, AB-, O-, B-, A-, A+, O+ and B+. Each of them participated and obtained different grade in a competitive exam viz. A, B, C, D, E, F, G and H but not necessarily in the same order. The grading is done in alphabetical order on the basis of their marks with top scorer obtaining A grade while the lowest scorer being given H grade.

L's maternal aunt does not live on eighth or first floor. The person who is the third lowest scorer lives on the fifth floor. K is the wife of Q and she has only one child. The person who scored sixth highest marks does not have B- blood group. The person whose blood group is AB- lives on an even-number floor. The person whose blood group is O- is an unmarried brother of Q. O is the sister-in-law of Q. L's grandmother has only one brother. The person whose blood group is AB+ lives on the top floor. The third highest scorer lives between K and L's grandmother. O obtained B grade and M's husband's brother-in-law scored the highest marks. M is the mother of Q. The person who obtained G grade has O- blood group and does not stay on the fifth floor. The person whose blood group is A+ lives on the seventh floor. N is the father of J, who is the uncle of L. K's father-in-law obtained E grade and lives on the sixth floor. The person who obtained D grade has A- blood group and lives on the third floor. The person who scored the lowest marks lives on first floor. Q's child and the one whose blood group is B+ live on an even-numbered floor. L's grandmother obtained F grade and L's uncle is the second lowest scorer. L does not have AB- blood group.

**Q45. Who amongst the following has AB- blood group?**

- (a) N
- (b) Q
- (c) J
- (d) M
- (e) L

**Q46. How is the person whose blood group is A- related to J?**

- (a) Brother-in-law
- (b) Brother
- (c) Son
- (d) Sister-in-law
- (e) Father

**Q47. Who lives immediately above the one whose blood group is A-?**

- (a) Q
- (b) O
- (c) The one who scored the third highest marks
- (d) The one who obtained F grade
- (e) The one whose blood group is AB+.

**Q48. Who amongst the following lives on an even numbered floor below the person whose blood group is O+?**

- (a) Q
- (b) The one whose blood group is A-
- (c) The one who obtained F grade
- (d) The one who obtained C grade
- (e) The one whose blood group is A+

**Q49. Statement:** A slump in home sales has pushed builders' inventory to "unsustainable levels" in the National Capital Region of Delhi, creating conditions for a real price correction that developers have so far avoided. Which of the following statements is inferred on the basis of the given statement?

- (a) Demand for houses is quite low in most of the big cities.
- (b) The high inventory level will hamper the ability of launching new projects by the builders.
- (c) Builders in the market who have shown a good track record of delivering on time and on their promises, have been able to garner sales even in this slow market.
- (d) Unless this unsold stock gets absorbed, it will be difficult for consumer confidence to come back in this market.
- (e) High prices have pushed most of the on-sale apartments beyond the reach of average home buyers.

**Q50. Statement:** Next time, when you lose your baggage or meet with an accident while travelling by train, you need not run from pillar to post and wait for years before the cheque lands at your door. Which of the following can be inferred from the given information? (An inference is something that is not directly stated but can be inferred from the given information.)

- (a) There will be quick settlement of claims into the customer's account.
- (b) All travellers' details will be linked with Aadhaar card.
- (c) The loss will be covered by any insurance company through railways.
- (d) There will be direct settlement of claim by the IRCTC.
- (e) None of these