

Reasoning Test-3+5

Direction(1-5):- Study the following information carefully and answer the given questions.

Eight persons from the same family of three generations are sitting in a linear row facing north.

P sits third from any one of the extreme ends. Q's wife sits second to the right of P. Q sits adjacent to his wife. R sits third to the left of Q. S sits fourth to the left of S's husband and second to the left of R's brother. The number of persons sitting to the right of T is less than 3. T's brother-in-law sits third to the left of T. No one sits between U and U's mother. V sits second to the right of W's wife and is not the mother of U. As many persons sitting to the left of U as to the right of R's mother. U has only one uncle.

Q1. How many persons sit between the father of U and the sister-in-law of R?

- 1.As many persons sitting to the left of T's mother-in-law
- 2.As many persons sitting between S and the son of R
- 3.One
- 4.As many persons sitting to the right of R's daughter-in-law
- 5.Seven

Q2. Which among the following statement(s) is/are true with respect to W?

- A.** The one who sits third from the right end is the grandson of W
B. The one who sits an immediate left of Q is the wife of W
C. W sits third to the right of V's wife

- 1.Only A 2.Only B and C 3.Only A and C 4.Only A and B 5.All A, B, and C

Q3. If all the persons are made to sit in alphabetical order from the left end, then who among the following persons remains unchanged in his position?

- 1.S's husband 2.T's mother 3.V's father-in-law 4.Both a and b 5.Both a and c

Q4. Who among the following is the son of P, and what is his position with respect to his father?

- 1.V and second to the left 2.S and third to the right 3.Q and fourth to the left
4.R and third to the left 5.P and immediate left

Q5. Who among the following persons sits at the extreme ends of the row?

I. Grand-father of S's husband

II. Sister-in-law of V

III. The one who sits second to the left of U

- 1.Only I 2.Only I and II 3.Only III 4.Only I and III 5.Only II

Direction(6-10):- Study the following information carefully and answer the questions given below.

21 persons are working in a company in different designations such as Executive director (ED), Deputy General Manager (DGM), Assistant General Manager (AGM), Manager, Assistant Manager (AM) and Clerk, where Executive director (ED) is the senior most designation and Clerk is the junior most designation.

Note I: The number of persons working in each designation is one less than the number of persons working in their immediate junior designation.

Note II: If "a" works with "b" means both a and b are working in the same designation.

N is senior to Assistant Manager. Both E and Q are working with N. The number of designations higher than Q is the same as the number of designations lower than V. F is senior to V. An even number of persons are working in H's designation. U is senior to I but junior to H. Both U and R are working in the same designation. R doesn't work with V. YCZ are working in the same designation. M is immediately senior to C and is not working with H. As many persons senior to B as junior to O, and none of them are working with Q. P is immediately senior to B. G is senior to M but junior to S. An odd number of persons are working in G's designation. W is senior to X but junior to L. L does not work as a Manager. S is not the Deputy General Manager.

All the persons except the persons senior to Assistant General Manager (AGM) are transferred to three departments viz. Marketing, Legal and HR as per the following conditions:

I. The persons whose name starts with a consonant which comes before "M" and also works with the persons whose name starts with a vowel which comes before "M" as per alphabetical order are transferred to marketing department.

II. The persons whose name starts with the letter which comes after "M" and also even number of persons works along with the person whose name starts with the letter which comes after "M" as per alphabetical series are transferred to Legal department.

III. All the remaining persons are transferred to HR department.

The person senior to the Assistant General Manager (AGM) is assigned to the head of the three departments as per the condition given below.

The person who is the executive director is the head of the HR department and the person who is the Deputy General Manager (DGM) is assigned to the head of the Marketing and Legal department as per alphabetical series respectively.

Q6. Who among the following person is the head of the Legal department?

- 1.S 2.V 3.W 4.X 5.L

Q7. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- 1.V-N 2.M-I 3.S-G 4.O-E 5.R-C

Q8. What is the difference between the number of persons in the Marketing and HR department?

- 1.3 2.6 3.5 4.4 5.1

Q9. How many persons work along with H before the transfer?

- 1.Four 2.Five 3.None 4.Three 5.Two

Q10. How many persons work along with H before the transfer?

- 1.Four 2.Five 3.None 4.Three 5.Two

Direction(11-13):- Study the following information carefully and answer the given questions.

"A@B" means "A is the son of B".

"A&B" means "B is the brother of A".

“A%B” means “A is the sister of B”.
“A#B” means “B is the daughter of A”.
“A\$B” means “A is the mother of B”.
“A*B” means “B is the wife of A”.
“A!B” means “A is the father of B”.

Q11. What comes in the blank space, respectively, such that T is the brother-in-law of M?

P_G@T_H!K%Q; H*M#L

1.\$ and # 2.\$ and * 3.% and \$ 4.\$ and & 5.# and #

Q12. If Q@L*J and Z is the husband of M, then how is M related to J, and how many female members are there in this family?

B%G\$L, M%W, W@T%L@V

1.Husband’s nephew and five 2.Daughter-in-law and six 3.Husband’s niece and five 4.Sister and six 5.Mother-in-law and seven

Q13. Which of the following correctly represents Q as the brother of B?

1.M#B%L@F!Q 2.J\$B@M!P&Q 3.A&B*M#Q\$F 4.F@M*Q\$L%B
5.J\$B@M!Q&P

Q14. Study the following information carefully and answer the given questions.

If in the given words, the vowels are arranged in alphabetical order from the left end and the consonants are arranged in reverse alphabetical order after the vowels, then which of the following words can be formed (meaningful/non-meaningful) from the middle letter of each word?

I. ABILITIES II. LIFEHACKS III. PARALYZED IV. DRIZZLING

1.IKYR 2.ILYS 3.YRHE 4.ILYR 5.YZRI

Direction(15-17):- In the following questions, the symbols #, @, \$, %, &, and !, are used with the following meaning, as illustrated below. Study the following information and answer the given questions. In each of the questions given below, statements are followed by some conclusions. You have to take the given statements to be true, even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

A&B means Some A is B

A%B means No A is B

A@B means Only a few A is B

A\$B means All A is B

A*B means Some A is not B

Q15. Statements:- Date \$ Verse % Club @ Pizza

Conclusions:- I. Date % Club II. Pizza & Verse III. Verse * Club

1.Only I 2.Only I and II 3.Only II 4.Only I and III 5.Only III

Q16. Statements:- Talk & Chances @ Roads % Angel \$ String

Conclusions:- I. Chances * Angel II. Road % Talk III. String \$ Chances

1.Only II 2.Only I and II 3.Only I 4.Only I and III 5.All follow

Q17. Statements:- Summer @ Thread @ Rays & Number * Hills

Conclusions:- I. Thread * Number II. Hills % Rays III. Summer \$ Number

1.Only I 2.Only I and II 3.Only II and III 4.Only I and III 5.None follows

Direction(18-21):- Study the following information carefully and answer the given questions.

1). In the alphabetical series A-Z, each letter except vowels and consonants (F, L, R, T, and V) is assigned a different number, starting from 1 to 9. (For ex: B is coded as 1, C is coded as 2, and so on), and again, those numbers repeated (for ex: P is coded as 1, Q is coded as 2, and so on). Also, each consonant (F, L, R, T, and V) is coded with different symbols, viz., @, #, \$, ^, and %, respectively.

2). If the number of letters in the word is odd, then the last vowel from the right end will be coded as Ω. If the number of letters in the word is even, then the last vowel from the right end will be coded as β.

3). If only one vowel is in the word, then that vowel is coded as K.

4). If the word either ends with F, L, and R or starts with T and W, then the code of the first vowel from the left end will be the code of that particular consonant, and the remaining vowels are coded with immediate preceding letters (if condition 4 applies to any word, then no other condition will be applicable).

5). If there are more than three vowels in a word, then the code of all the vowels will be Δ. (If condition 5 applies to any word, then no other condition will be applicable.)

6). If there are no conditions applied to any vowel, then the particular vowel will be coded as £.

Q18. How “BLACK BOARD” is coded in the given code language?

1.2#K27 1Ω£\$3 2.1#K37 1Ω£\$3 3.1#K27 1Ω£\$3 4.1#K28 1Ω£\$3 5.1#K27 2Ω£\$3

Q19. How “Laptop” is coded in the given code language?

1.#1β^Ω1 2.#β1^£1 3.#β1Ω£1 4.#β3^£3 5.β#3^£1

Q20. Which among the following word is coded “57#%9”?

1.HKLVN 2.XZLVN 3.GMLVN 4.Both a and b 5.Both a and c

Q21. How “Paper 2@#8” is coded in the given code language?

1.1\$13\$ BFLM 2.1£23\$ QFLM 3.1@13\$ CFLM 4.1Ω£\$3 QFML 5.1\$13\$ CFLM

Direction(22-26):- Study the following information carefully and answer the given questions.

Eight persons N, O, P, Q, R, S, T and U lives in different cities viz., Kochi, Agra, Surat, Lucknow, Pune, Delhi, Patna and Jaipur but not necessarily in same order. They also like different series viz., flames, Asur, Tandav, Panchayat, Mirzapur, Delhi Crime, Aspirants and Kota factory.

Q likes Tandav. T either lives in Agra or Pune. P lives in Patna and likes Kota factory. The one who lives in Delhi likes Panchayat. Neither N nor R lives in Delhi. Either N or T likes Delhi Crime. Q neither lives in Surat nor lives in Kochi. The one who likes Mirzapur lives in Lucknow. Neither O nor S likes Panchayat. The one who lives in Pune doesn’t like Tandav and Flames. The one who lives in Kochi likes Aspirants. R and O doesn’t like Aspirants and Flames. N doesn’t live

in Kochi and Pune. Neither T nor O likes Asur and Delhi Crime. The one who likes Asur doesn't live in Surat.

Q22. The one who lives in Jaipur likes _____ series and N lives in ____?

1.Tandav, Pune 2.Mirzapur, Kochi 3.Flames, Agra 4.Tandav, Surat 5.Asur, Delhi

Q23. Which among the following pair of persons lives in Agra and Lucknow respectively?

1.P and T 2.T and O 3.P and S 4.T and U 5.Q and R

Q24. Which of the following combinations is false?

1.N- Delhi Crimes 2.Patna- Kota factory 3.S- Aspirants 4.Panchayat- U 5.O- Asur

Q25. Which of the following statement(s) is/are true with respect to the final arrangement?

I. Q lives in Jaipur and likes Mirzapur

II. N likes Delhi Crime and lives in Surat

III. The one who lives in Agra likes Flames

1.Only I 2.Only II 3.Only II and III 4.Only III 5.All are true

Q26. Which among the following persons lives in Surat?

1.The one who likes Flame s 2.The one who likes Asur 3.The one who likes Mirzapur 4.The one who likes Delhi Crime 5.The one who likes Kota factory

Direction(27-30):- In each of the following questions, three rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the questions below the rows of numbers are to be answered. The operation of numbers progresses from left to right.

Conditions:

I. If an even number is followed by a perfect cube, then the product of both the numbers is taken.

II. If an odd number is followed by a prime number, then the difference of squares of both the numbers are taken.

III. If an even number is followed by an odd number, then the addition of both the numbers is taken.

IV. If a prime number is followed by two digits even number, then the sum of both the numbers are to taken else, If a prime number is followed by one digit even number, then the difference of both the numbers are to taken.

V. If an odd number is followed by a perfect square, then the average of both numbers is taken.

Note: If more than one condition is valid then, use only one condition in the same order.

Q27. What is the resultant of the difference of both row I and row II is added to row III?

10 08 11

13 19 17

07 25 01

1.145 2.134 3.165 4.153 5.154

Q28. What is the average if resultant all three rows are considered?

23 26 53

21 81 49

10 13 13

1.272.4 2.273.5 3.275.2 4.272.6 5.247.5

Q29. What is the resultant of the given equation $2Z+X-Y$?

08 08 37 = X

07 11 21 = Y

29 32 02 = Z

1.125 2.124 3.126 4.127 5.129

Q30. What is the resultant from addition of row II and row III?

25 09 19

2 125 33

31 30 49

1.335 2.334 3.336 4.337 5.338

Direction(31-35):- Study the following information carefully and answer the given questions.

Seven persons viz., W, E, F, T, Y, U and X got different rank in their classes and they get different number of chocolates as reward. They are standing at some distance to each other.

E got two rank higher than U, who is standing 7m to the east of X. W got less rank than U but higher than Y, who doesn't get the lowest rank and is standing to the 15m west of W, who is standing 10m to the south of X. T got less rank than F, who is standing 22m to the north of W. F neither get the second highest rank nor rank higher than E, who is standing 18m to the east of F. T is standing in the middle of F and X, who get at least four ranks higher than Y but not the highest. The one who get third rank get 35 chocolates and the one who gets second lowest rank get 14 chocolates. W got higher rank than F.

Q31. If E get 9 chocolates more than U, then what may be the possible chocolates X get and what is the direction of X with respect to E?

1.40, south-east 2.34, south-west 3.42, south-west 4.30, north-west 5.45, north-east

Q32. What is the shortest distance between the one who get three rank higher than W and two ranks lower than X?

1. $\sqrt{860}$ m 2. $\sqrt{856}$ m 3. $\sqrt{861}$ m 4. $\sqrt{864}$ m 5. $\sqrt{808}$ m

Q33. If J also joins the ranking of classes and get the highest rank and stands 16m to north of Y, then what is the rank and distance between J with respect to F and T respectively?

1.Four ranks higher, 15m 2.Three ranks higher, 14m 3.One rank higher, 17m 4.Five ranks higher, 15m 5.Two ranks higher, 18m

Below questions consists of one question followed by statements. Study the following information carefully and decide which of the following statement is sufficient to answer the question.

Q34. Six persons – A, B, C, D, E and F are sitting in a row facing north. How many persons are sitting between D and B?

1. Two persons sit between D and A, where neither of them sits at the extreme end of the row. B sits to the immediate right of F. E sits to the right of F.
2. Only one person sits between A and C. Two persons sit between F and B. D and E are immediate neighbours.
3. Two persons sit between D and F. B and A are immediate neighbours. E does not sit at the extreme end of the row.
4. F sits third to the right of E, where neither of them sits at the extreme end of the row. A sits to the immediate right of B. D sits to the right of C.
5. E sits third to the right of B, where either of them sits at the extreme end of the row. Only one person sits between F and D. A sits to the right of C.

Q35. There are six members in the family. Two married members and each married couple have at least one child. How P is related to R?

1. P is the son-in-law of Q. S is the father of R. U is the brother-in-law of T who is married to R.
2. R is the daughter of T, who is the child of P. U is the brother-in-law of S who is married to T. R is the niece of U who is not married.
3. P is the father of T, who is married to S. R is the niece of U and the child of T. S doesn't have siblings.
4. U is the uncle of R. S is the brother-in-law of U who is not married. T is the son of Q who is married to P.
5. R is the nephew of S, who is the sister of T. Q is the mother of U.

Direction(36-39):- Study the following information carefully and answer the given questions.

Nine persons are going on a trip on two different dates i.e. 14th and 23rd of five different months viz. January, February, March, April and May of the same year. No person goes to the trip on one of the dates of the given month.

Q goes in the month having less than 30 days. Only three persons are going between Q and T, who is not going with anyone in the same month. The number of persons going between Q and T is **two less** than the number of persons going between U and O, who goes after U. P goes on an even numbered date. The number of persons going between P and U is **one less** than the number of persons going between R and V. W goes immediately after V. S and T are not going on the same date.

Q36. Which of the following month only one person is going to a trip?

1. January 2. April 3. February 4. March 5. May

Q37. If P is related to U, and similarly S is related to O, then which of the following person related to R?

- I. The one who goes on 14th March
- II. The one who goes two persons before V
- III. The one who goes two persons before T

1. Only I and II 2. Only I 3. Only II and III 4. Only I and III 5. Only III

Q38. Which of the following person goes on the 14th of the given month?

- I. The one who goes two persons before R
- II. The one who goes three persons after P
- III. The one who goes exactly between R and U

1. Only II and III 2. Only I and III 3. Only I and II 4. All 5. None

Q39. Which of the following person goes on a trip in the month which has the least number of days?

1. T 2. O 3. V 4. S 5. W

Direction(40-44):- Study the following information carefully and answer the given questions.

The words machine, when given an input, rearranges them by following a particular rule in each step. The following is an illustration of the input and step rearrangement:

Input: LIEN MOD FEAR RUG NIP PEON BOIL EAP HAIR DYE

I: LIEN MOD FEAR RUG OBLI AEP NIP PEON HAIR DYE

II: LIEN MOD RUG EFRA OBLI AEP INP PEON HAIR DYE

III: LIEN RUG AHRI EFRA OBLI AEP INP DMO PEON DYE

IV: ILNE AHRI EFRA OBLI AEP INP DMO GRU PEON DYE

V: EPNO ILNE AHRI EFRA OBLI AEP INP DMO GRU DEY

Step 5 is the last and final step of the rearrangement. With the same rules followed in the above arrangement, determine the steps for the following input.

Input: ZERO MAN FIRE OUT THE BAKE DIG RIDE GAME ONE

Q40. Which of the following will be the second-last step of the given input?

ZERO OUT IFER ABEK AMN EHT DIG RIDE GAME ONE

EZOR IRED AGME IFER ABEK AMN EHT DGI ENO OTU

ZERO OUT IRED AGME IFER ABEK AMN EHT DGI ENO

ZERO FIRE OUT THE ABEK AMN DIG RIDE GAME ONE

ZERO OUT AGME IFER ABEK AMN EHT DGI RIDE ONE

Q41. Which of the following words is third from the right end in step III?

1. OUT 2. DGI 3. AGME 4. AMN 5. ABEK

Q42. How many elements are there between "IRED" and "DGI" in the last step?

1. Three 2. One 3. Two 4. Five 5. More than five

Q43. What is the position of "OUT" with respect to "RIDE" in step II?

1. Sixth to the left 2. Fifth to the right 3. Seventh to the left 4. Sixth to the right 5. Fifth to the left

Q44. Which of the following words will be the 6th from the left end in step 1?

1. IFER 2. AGME 3. DGI 4. ENO 5. AMN

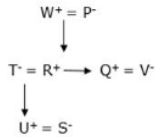
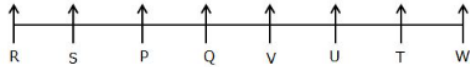
Q45. If all digits within number are arranged in such a way that the first half of digits are arranged in ascending order followed by the second half of digits in descending order, now which of the following numbers results in a prime difference between the sum of odd position digits and even position digits from the left end?

- I. 28653927 II. 63426581 III. 53916482 IV. 47365938

1. Only I, III, and IV 2. Only II and III 3. Only III 4. Only I, II, and III 5. Only II, III, and IV

Solution(1-5):- 2 4 5 3 1

Final arrangement:



Solution(6-10):- 5 3 2 4 1

Final arrangement

Designation	Person
Executive director (ED)	S
Deputy General Manager (DGM)	FL
Assistant General Manager (AGM)	VOG
Manager	NEQH
Assistant Manager (AM)	WRMPU
Clerk	YCIBXZ

DEPARTMENT	HEAD	PERSONS
Marketing	F	HCB
Legal	L	VOWRPU
HR	S	GNEQMYIXZ

Solution(11-14):- 4 3 2 4

Solution(15-17):- 4 3 5

Solution(18-21):- 3 2 4 5

Solution(22-26):- 4 2 5 3 4

Final arrangement:

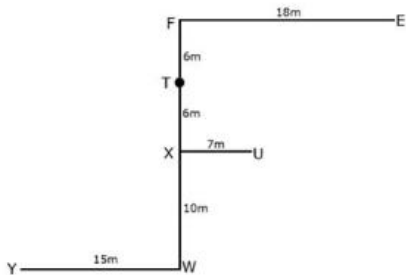
Persons	City	Series
N	Surat	Delhi Crime
O	Lucknow	Mirzapur
P	Patna	Kota Factory
Q	Jaipur	Tandav
R	Pune	Asur
S	Kochi	Aspirants
T	Agra	Flames
U	Delhi	Panchayat

Solution(27-30):- 2 4 3 5

Solution(31-33):- 3 5 4

Final arrangement:

Ranks	1	2	3	4	5	6	7
Persons	E	X	U	W	F	Y	T
Chocolates			(35)			(14)	



Solution(34-35):- 4 3

Solution(36-39):- 2 4 5 3

Final arrangement:

Months	Dates	Persons
January	14	P
	23	U
February	14	Q
	23	V
March	14	W
	23	R
April	14	T
	23	Vacant
May	14	O
	23	S

Solution(40-44):- 3 2 4 1 5

Final arrangement:

Input: ZERO MAN FIRE OUT THE BAKE DIG RIDE GAME ONE

I: ZERO FIRE OUT THE ABEK AMN DIG RIDE GAME ONE

II: ZERO OUT IFER ABEK AMN EHT DIG RIDE GAME ONE

III: ZERO OUT AGEM IFER ABEK AMN EHT DGI RIDE ONE

IV: ZERO OUT IRED AGEM IFER ABEK AMN EHT DGI ENO

V: EZOR IRED AGEM IFER ABEK AMN EHT DGI ENO OTU

Input: LIEN MOD FEAR RUG NIP PEON BOIL EAP HAIR DYE

I: LIEN MOD FEAR RUG OBLI AEP NIP PEON HAIR DYE

II: LIEN MOD RUG EFRA OBLI AEP INP PEON HAIR DYE

III: LIEN RUG AHRI EFRA OBLI AEP INP DMO PEON DYE

IV: ILNE AHRI EFRA OBLI AEP INP DMO GRU PEON DYE

V: EPNO ILNE AHRI EFRA OBLI AEP INP DMO GRU DEY

For 4 letters words:

- The 4 letter words are chosen based on the alphabetical order, and then the 1st letter is interchanged with the 2nd letter, the 3rd letter is interchanged with the 4th letter and arranged in the middle, then the next 4 letter word is arranged to the left of the previously arranged letter (i.e., EFRA is arranged to the left of OBLI), and so on.

For 3 letters words:

- The 3 letter words are chosen based on the alphabetical order of the middle letter and then arranged in the middle right next to the 4 letter word, then the 3 letter words are arranged alphabetically within the word. The next 3 letter word is arranged to the right of the previous letter (i.e., INP is arranged to the right of AEP), and so on.

Input: ZERO MAN FIRE OUT THE BAKE DIG RIDE GAME ONE

I: ZERO FIRE OUT THE ABEK AMN DIG RIDE GAME ONE

II: ZERO OUT IFER ABEK AMN EHT DIG RIDE GAME ONE

III: ZERO OUT AGEM IFER ABEK AMN EHT DGI RIDE ONE

IV: ZERO OUT IRED AGEM IFER ABEK AMN EHT DGI ENO

V: EZOR IRED AGEM IFER ABEK AMN EHT DGI ENO OTU

Solution(45):- 4