

STUDY NOTES BY DAS SIR KOLKATA (09038870684)

PUZZLES BY DAS SIR

THIS STUDY NOTE ON REASONING PUZZLES IS CREATED BY DAS SIR WHO PREPARES STUDENTS FOR ALL SORTS OF GOVERNMENT JOB EXAMS LIKE SSC CGL/IBPS PO/SBI PO/MAT/CLAT/CDS/HOTEL MANAGEMENT NCHMCT JEE/ONGC GT/SAIL MT/CIL MT/POSTAL ASSISTANT /ALL PSU ETC.

YOU CAN GET IN TOUCH WITH HIM FOR STUDY NOTES OR PERSONAL COACHING IN KOLKATA ON 09038870684

In this type of problems, questions are we have to deal more or less unrelated data or information and a specific question or group of questions is posted.

To solve the problems examining and re examining the problem situation from every point of view is to be done. questions are of following types

- (a) Comparison Type
- (b) Seating Arrangements
- (c) Problems based on blood relationship
- (d) Classification Type
- (e) Jumbled type problems

In This Material I Had Tried To Explain Step By Step How To Decode The Problem Using Different Informations.

Blood Relation questions appear frequently in aptitude based exams. They are often successful in confusing us and we end up wasting precious time and valuable marks.

Here is a structured three-step approach that will help you in several ways.

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One, it will help you avoid any confusion and lay out the question. Secondly, it will help you make faster decisions.

Remember, blood relation questions are just a complex way to put forward a simple relationship.

So here is the mantra to solve these questions: GIG

What is GIG. Lets go over it in three steps as I promised.

Generation:

Note down the generation to which each person in the question belongs.

Say you are Generation 0, your Dad is Generation 1 and your son (ya ya, you are too young, but say just for example) is Generation -1, your Grandfather is Generation 2, and your Grandson is Generation -2.

So a father or a mother or uncle or aunt belongs to generation +1 and son or a daughter or nephew is Generation -1

Note down the generations in this question:

Pointing towards Pappu, Billu said "I am the only son of his father's one of the sons". How

Pappu is related to Billu?

Say Pappu is Generation 0

Pappu's father is Generation 1

One of Pappu's father's son is also Generation 0

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Billu is the “son” of One of Pappu's father's son – So Billu is Generation -1

Indirect or Direct Relation:

As the title suggests, you must identify whether the relation between two persons is direct or it involves someone in between.

Here is an easy way to understand it.

A husband and wife have a direct relationship so do a father and a son.

However, a mother-in-law and a daughter-in-law do not have a direct relationship, there must be another person who is mother-in-law's son and daughter-in-law's husband in between.

This is the component that adds the trick to blood relation questions. If you solve this piece you will certainly be able to answer your question.

Gender:

This is the final piece of the puzzle. You need to identify whether the person being talked about is male or female.

Sometimes its easy sometimes it may not be clear.

Example: An uncle and a nephew. In this indirect relationship, The intermediate person could be male (uncle's brother and the nephew's father) or female (uncle's sister and the nephew's mother). You must make a note of this and solve this part from other information in the question.

Lets solve a question to put the GIG strategy into action.

If Bipasha says, "Asha's father Raj is the only son of my father-in-law, Sanjay"; How is Katrina related to Sanjay. Katrina is Asha's sister?

(1) Daughter (2) Wife (3) Daughter-in-law (4) Niece (5) Grand-daughter

(2)

Now, first things first, Do Not Worry. You will be able to solve it.

Generation:

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Say Asha is Generation 0

Katrina is Asha's sister so Katrina is also Generation 0

Raj is Asha's father so he is Generation 1

Raj is the Son of Sanjay so Sanjay is Generation 2

Bipasha is Sanjay's daughter-in-law so she is Generation 1

Indirect or Direct Relationship:

Sanjay is Bipasha's father-in-law, therefore there is Bipasha's husband and Sanjay's son who is the link in between.

Question says Raj is Sanjay's son – So one new information. Raj is Bipasha's husband.

Raj is Asha's father, which also means Asha is also Bipasha's daughter and Sanjay's Granddaughter.

Gender:

Katrina is Asha's sister (female), so Katrina is Sanjay's Grand-daughter.

So Go ahead and try some questions. I am sure you will find it much easier now.

Verbal Reasoning-Puzzle Test-1

Read the following information carefully and answer the questions given below :-

P, Q, R, S, T, V and W are sitting around a circle facing at centre. R is third to the right of V who is second to the right of P. T is second to the left of Q who is second to the left of W. V is sitting between S and W.

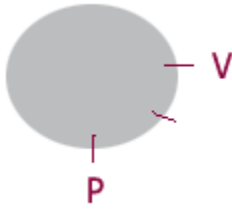
Q(1) Who is to the immediate left of R ?

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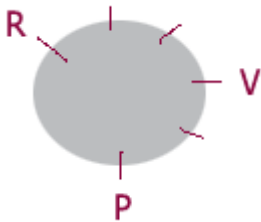
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- (a) Q (b) T (c) P (d) Data inadequate (e) none of these

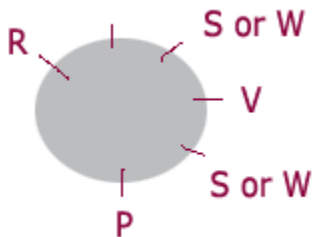
Let's solve step by step:- R is third to the right of V who is second to the right of P



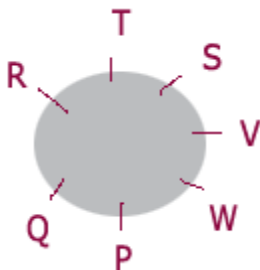
R is third to the right of V



V is sitting between S and W.



T is second to the left of Q who is second to the left of W, So in this case only this structure is possible.



So immediate left of R is T option (b) correct

Q(2) Who is third to the left of T ?

- (a) P (b) S (c) V (d) W (e) none of these

Solution:- Option is (d) W

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Q(3) Who is sitting between T and V ?

(a) R (b) S (c) None (d) data inadequate (e) none of these

Solution : Correct option is (b) S

Q(4) Who is sitting between R and W ?

(a) Q only (b) P only (c) P and T (d) data inadequate (e) none of these

Solution :- Between R and W PQ and TSV are sitting so, correct option is (e) none of these

Verbal Reasoning-Puzzle Test-2

Ex. In a school, there were five teachers. A and B were teaching Hindi and English. C and B were teaching English and Geography. D and A were teaching Mathematics and Hindi. E and B were teaching History and French.

Q(1) Who among the teachers was teaching maximum number of subjects ?

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

Solution :- Let's make a table for analysis

	English	Hindi	Mathematics	Geography	History	French
A	Yes	Yes	Yes			
B	Yes	Yes		Yes	Yes	Yes
C	Yes			Yes		
D		Yes	Yes			
E					Yes	Yes

So, maximum number of subjects was taught by B, option (b) is correct

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Q(2) Which of the following pairs was teaching both Geography and Hindi ?

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

Solution :- By seeing on table only B teaches Geography and Hindi

Q(3) More than two teachers were teaching which subjects ?

- (a) History (b) Hindi (c) French (d) Geography (e) Mathematics

Solution :- Hindi is being taught by three teachers A, B and D So option (b) is correct

Q(4). D, B and A were teaching which of the following subjects ?

- (a) English only (b) Hindi and English (c) Hindi only (d) English and Geography (e) Mathematics and Hindi

Solution :- Hindi only , option (c) is correct

Q(5) Which among the teachers was teaching less than two subjects ?

- (a) A (b) B (c) D (d) Data inadequate (e) There is no such teachers

Solution :- Option (e) is correct, all are teaching two or more than two subjects

Verbal Reasoning-Puzzle Test-3

Study the following information carefully and answer the questions given below :-

P, Q, R, S, T, V, W and Z are eight friends studying in three different engineering colleges- A, B and C in three disciplines- Mechanical, Electrical and Electronics with not less than two and not more than three in any college. Not more than three of them study in any of the three disciplines. W studies Electrical in college B with only T who studies Mechanical. P and Z do not study in college C and study in same discipline but not Electrical. R studies Mechanical in college C with V who studies Electrical. S studies Mechanical and does not study in the same college where R studies. Q does not study Electronics.

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Q(1) Which of the following combinations of college-students-specialization is correct ?

- (a) C-R-Electronics (b) A-Z-Electrical (c) B-W-Electronics (d) B-W-Electrical (e) B-Z-Electronics

Solution :- Friends kindly analyze carefully

	Mechanical	Electronics	Electrical
A			
B			
C			

R studies Mechanical in college C with V who studies Electrical.

W studies Electrical in college B with only T who studies Mechanical.

	Mechanical	Electronics	Electrical
A			
B	T		W
C	R		V

P and Z do not study in college C and study in same discipline but not Electrical.

S studies Mechanical and does not study in the same college where R studies.

	Mechanical	Electronics	Electrical
A	S	P and Z	
B	T	P and Z	W
C	R		V

Q does not study Electronics.

Not less than two and not more than three in any college.

##Not more than three of them study in any of the three disciplines.

	Mechanical	Electronics	Electrical
A	S	P , Z	
B	T		W, Q
C	R		V

So option, B-W-Electrical is correct (d)

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Q(2) In which of the following colleges two students study in electrical discipline ?
(a) A only (b) B only (c) C only (d) Can not be determined (e) None of these

Solution : Option (b) W and Q in college B

Q(3) In which discipline does Q study ?
(a) Electrical (b) Mechanical (c) Electrical or Mechanical (d) Data inadequate (e) None of these

Solution :- Option (a) Electrical is correct

Q(4) In which of the colleges at least one student in Mechanical discipline ?
(a) A only (b) B only (c) C only (d) Both A and B (e) All A, B and C

Solution :- Option (e) all A, B and C

Q(5) S studies in which college ?
(a) A (b) B (c) A or B (d) Data inadequate (e) None of these

Solution :- Option (a) A

Verbal Reasoning-Puzzle Test-4

Ex. Eight persons E, F, G, H, I, J and L are seated around a square table -Two on each side.
There are three lady members and they donot seated next to each other.

J is between L and F

G is between I and F

H, a lady member is second to the left of J.

F a male member, E a lady member seated third to the left of F

There is a lady member between F and I.

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Q(1) Who among the following is seated between E and H ?

(a) F (b) I (c) J (d) Can not be determined (e) None of these.

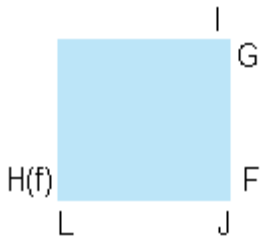
Solution:- Let L be at this place then J will be at this place see in fig



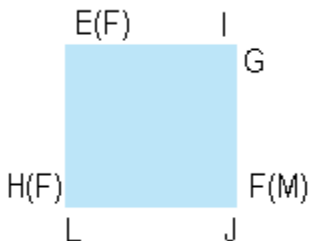
Now, G is between I and F



H, a lady member is second to the left of J

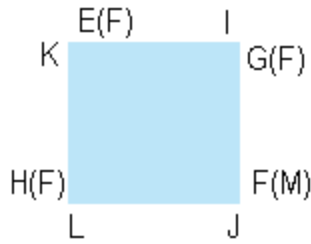


F a male member, E a lady member seated third to the left of F



There is a lady member between F and I.

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Q(1) Who among the following is seated between E and H ?

- (a) F (b) I (c) J (d) Can not be determined (e) None of these

Solution :- K is between H and E , so correct option is (e)

Q(2) How many persons are seated between K and F ?

- (a) One (b) Two (c) Three (d) Can not be determined (e) None of these

Solution :- E, I and G total three persons. option (c) is correct

Q(3) Who among the following are the three lady members ?

- (a) E, G and J (b) E, H and G (c) G, H and J (d) Can not be determined (e) None of these

Solution :- E, G, H so option (b) is correct

Q(4) Who among the following is to the immediate left of F ?

- (a) G (b) I (c) J (d) Can not be determined (e) None of these

Solution :- J, correct option is (c)

Q(5) Which of the following is true about J ?

- (a) J is a male member (b) J is a female member (c) Sex of J can not be determined (d) Position of J can not be determined (e) None of these

Solution :- There are only three female members (E, G, H), so rest of them are male members, option (a) is correct

Verbal Reasoning-Puzzle Test-5

Study the following information carefully and answer the questions given below :

B, C , D, F, G, H and J are seven students studying in three colleges P, Q and R. There are three boys and four girls. There are at least one boy and one girl in each college. Three of them are in commerce discipline and two each in Arts and Science. B and her sister G are in science discipline but in different colleges. F studies Arts in in college Q and he does not study either with J or C. D is not in Commerce and he studies in college R only with B. All the three from Commerce discipline do not study in the same college. H studies in the same college with her friend G.

Solution:- Let us analyse the question in separate statements

- (1) Three of them are in commerce discipline and two each in Arts and Science.
- (2) B and her sister G are in science discipline but in different colleges.
- (3) F studies Arts in in college Q and he does not study either with J or C.
- (4) D is not in Commerce and he studies in college R only with B.
- (5) All the three from Commerce discipline do not study in the same college.
- (6) H studies in the same college with her friend G.

First we select simple condition (3) F studies Arts in in college Q and he does not study either with J or C.

College P			
College Q	F	Arts	Boy
College R	D		Boy

- (4) D is not in Commerce and he studies in college R only with B.

College P			
College Q	F	Arts	Boy
College R	D B		Boy

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(2) B and her sister G are in science discipline but in different colleges.

College P			
College Q	F	Arts	Boy
College R	D B	Science	Boy Girl

(6) H studies in the same college with her friend G means both are girls

College P			
College Q	F H G	Arts Science	Boy Girl Girl
College R	D B	Science	Boy Girl

Again from statement (4) D is not in Commerce and he studies in college R only with B. So, D will be from Arts, as B and G are from science

College P			
College Q	F H G	Arts Science	Boy Girl Girl
College R	D B	Arts Science	Boy Girl

Remaning we can get from (3) F studies Arts in in college Q and he does not study either with J or C. J, C will be remaning Commerce stream and study in college P but sex is not determined. H will also from commerce stream

College P	J C	Commerce Commerce	Boy or Girl Boy or Girl
College Q	F H G	Arts Commerce Science	Boy Girl Girl
College R	D B	Arts Science	Boy Girl

Q(1) In which college do only Commerece students study ?

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(a) None (b) Q (c) R (d) P (e) P or Q

Solution :- College P Option (d)

Q(2) If C and B interchange their colleges satisfying all other conditions, which of the following will definitely represent the girls ?

(a) BCHD (b) BCHG (c) BFHG (d) DCHF (e) None of these

Solution:- If C and B interchange their position then C must be a girl, so BCHG will be girls , so option (b) correct

Q(3) Which of the following represents the three in commerce discipline ?

(a) HJC (b) HDC (c) HFG (d) Data inadequate (e) None of these

Solution:- option (a) HCJ is correct

Q(4) In which college do three of them study ?

(a) P (b) R (c) P or Q (d) Data inadequate (e) None of these

Solution :- Correct option is (e) none of these because all three students read in P and Q

Q(5) Which of the following represents three Boys ?

(a) DFJ (b) DFC (c) DFJ or DFC (d) Data inadequate (e) None of these

Solution:- Correct option is (c)

Verbal Reasoning-Puzzle Test-6

Five friends , P, Q, R, S AND T travelled to five different cities of Chennai, Kolkata, Delhi, Banglore and Hyderabad by different modes of transport of Bus, Train , Aeroplane , Car and Boat from Mumbai.

ii) The person who travelled to Delhi did not travel by boat.

iii) R went to Bangalore by car and Q went to Kolkata by aeroplane

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- iv) S travelled by boat whereas T travelled by train .
v) Mumbai is not connected by bus to Delhi and Chennai.

- Which of the following combinations of person and mode is not correct?
a. P- Bus b. Q-Aero plane c.R- Car d. S- Boat e. T- Aero plane.
- Which of the following combinations is true for S?
a. Delhi-Bus b. Chennai-Bus c.Chennai- Boat
d. Data inadequate e. None of these
- Which of the following combinations of place and mode is not correct?
a. Delhi- Bus b.Kolkata- Aero plane c.Bangalore- Car
d.Chennai-boat e. hyderabad- bus
- The person traveling to delhi went by which of the following modes?
a. bus b. train c. aero plane d. car e. boat
- Who among the following traveled to delhi
a. R b. S c. T d. data inadequate e. none of these.

Soln. the given information can be analysed as follows:

- a) mode of transport : RTravels by car, Q by aeroplane , S by boat and T by train . Now , only P remains . So, P travels by Bus.
b) place of travel: R goes to bangalore , Q to kolkata. Now , bus transport is not available for delhi or chennai. so , p who travels by bus goes to hyderabad. S travels by boat and hence by (ii) , did not go to delhi. So, S goes to chennai. Now, only T remains. So, T goes to delhi

Person	P	Q	R	S	T
Place	Hyderabad	Kolkata	Bangalore	Chennai	Delhi
Mode	Bus	Aero plane	Car	Boat	Train

- clearly , the incorrect combination is T-aeroplane . So , the answer is (e)
- clearly, the correct combination for S is chennai- boat. So, the answer is (c).
- clearly , the incorrect combination is delhi-bus. So the answer is (a).
- clearly, T travel to delhi by train . So the answer is (b).
- clearly , T travel to delhi. So , the answer is (c).

Verbal Reasoning-Puzzle Test-7

- B and E are good in dramatics and computer science
- A and B are good in computer science and physics.
- A, D and C are good in physics and mathematics .
- C and A are good in physics and mathematics .
- D and E are good in history and dramatics.

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1. Who is good in physics , history and dramatics ?
a. A b. B c. D d. E
2. Who is good in physics, history and mathematics but not in computer science ?
a. A b. B c. C d. D
3. Who is good in computer science , history and dramatics?
a. A b. B c. C d. E
4. Who is good in history , physics , and computer science and mathematics?
a. A b. B c. C d. D
5. Who is good in physics , dramatics and computer science ?
a. A b. B c. D d. E

Soln. The given information can be analysed as under :

	dramatics	com. sc.	Phy	His	Math
A	X	√	√	√	√
B	√	√	√	X	X
C	X	X	√	√	√
D	√	X	√	√	X
E	√	√	X	√	X

1. D is good in physics , history and dramatics . so the answer is (c).
2. Both A and C are good in physics , History and mathematics . But A is good in computer science , while C is not . So , the answer is (c).
3. E is good in computer science , history and dramatics. Hence , the answer is (d).
4. A is good in history , physics , computer science and mathematics . Hence , the answer is (a).
5. B is good in physics, dramatics and computer science. Hence , the answer is (b).

Verbal Reasoning-Puzzle Test-8

Study the following information carefully to answer the given question .

Madan and Rohit are in same team of hockey . Parth defeated Rohit in badminton but lost to sachin in tennis . nitin teams with sagar in football . and with sachin in hockey . rohit defeated sachin in chess. Those who play cricket donot play badminton , volleyball or tennis . madan and parth are in opposite team of basketball. nitin represent his state in cricket while sagar does so at the district level. Boys who play chess donot play football , basketball or volleyball. Madan and parth are together in volleyball team . Boys who play football also play hockey.

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1. Name the boy who do not play football ?
a. Sachin , Nitin b. Rohit , Sagar c. Rohit , Sachin d. Rohit , Nitin
2. Who play both hockey and tennis?
a. Sachin b. Rohit c. Nitin d. Parth
3. Which is the most popular game with this group?
a. cricket b. hockey c. football d. badminton
4. Who play the largest number of games ?
a. Sagar b. Rohit c. Parth d. Nitin
5. Which boy play both badminton and hockey?
a. Sachin b. Rohit c. Nitin d. Parth

Soln.

	Madan	Rohit	Parth	Sachin	Nitin	Sagar
Hockey	√	√		√	√	√
Badminton		√	√		X	X
Tennis			√	√	X	X
Chess		√		√		
Football		X		X	√	√
Basketball	√	X	√	X		
Volleyball	√	X	√	X	X	X
Cricket					√	√

1. (c) Rohit and Sachin do not play football
2. (a) Sachin play both hockey and tennis .
3. (b) Since hockey is played by the maximum nos. of student in the group so, hockey is the most popular game.
4. (c) Parth , play the largest nos. of game i.e. four.
5. (b) Rohit play both badminton and hockey

Verbal Reasoning -Puzzle Test-9

Study the following information carefully to answer the given question

1. A, B, C, D, E ,F and G are sitting around a circle and are facing the centre.
2. G is second to the left of C, who is to the immediate left of F.

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3. A is third to the left of E.

4. B is between D and E.

i) which of the following is false ?

a. A is the fourth to the right of E. b. G is to the immediate right of D. c. F is the third to the right of D. d. B is the immediate left of D. e. None of these

ii) Which of the following is true?

a. C is fourth to left of B. b. A is to the immediate right of G. c. D is second to the left of E. d. B is second to the right of G.

e. None of these

iii) Which of the following pair has the first person sitting to the immediate left of the second person?

a. BE b. CA c. GD d. DG e. None of these

iv) Which of the following is the positions of F?

a. Fourth to the right of D. b. To the immediate left of C. c. Between A and C. d. To the immediate right of A e. None of these.

Solutions.

We first of all mark the seven blank positions around a circle. Now, G is second to the left of C and C is to the immediate left of F. We mark their positions as shown. Also, B is between D and E. Thus, D, B, E sit together and occupy the three consecutive blank positions. Now, only one position remains blank between G and C, and this must be occupied by A. Now, D, B, E may sit in any of the positions (D, B, E) or (E, B, D). But A is third to the left of E only when they sit in the order (D, B, E). Thus we mark their positions as shown.

1. Clearly, F is fourth to the right of D. So, (c) is false. Hence, the answer is (c)

2. C is third to the left of B. So, (a) is false

A is to the immediate right of G. So, (b) is true.

D is second to the right of E. So, (c) is false.

B is second to the left of G. So, (d) is false.

Hence, the answer is (b)

3. Clearly, only in the pair DG, the first person D sits to the immediate left to the second person G. Hence the answer is (d).

4. C sits between A and F; F sits between E and C; E sits between B and F; D sits between G and B. So, none of the given groups satisfies the given condition.

5. Clearly, F's position is . fourth to the right of D.

. to the immediate right of C.

. between C and E

. Second to the right of A.

Hence, the answer is (a).

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