

Blood Relations Based: Exercise 1

Set 1 : There are 8 members and 3 married couples across 3 generations in the family of the Ahujas. Their professions are Doctor, Lawyer, Housewife, Engineer, Dentist, Architect, Teacher and Medical Representative not in any particular order. Further information is as under :

1. The Engineer is married to the Architect.
2. B, the housewife is the grandmother of the teacher, H.
3. E, the Doctor is the Father of the Lawyer.
4. F is married to A who is the mother of the dentist.
5. The Architect is the Teacher's father.
6. C does not belong to the first generation and is neither an Engineer nor a dentist.
7. A is the sister of the Architect and is a Lawyer.

Q1 : At least how many female members are there in this family ?

- a. 3 b. 4 c. 5 d. Cannot be Determined.

Q2 : How is A related to H ?

- a. Mother b. Cousin c. Aunt d. Cannot be Determined.

Q3 : Who is the spouse of C?

- a. D b. G c. B d. Cannot be Determined.

Q4 : How is E related to F ?

- a. Father b. Father-in-law c. Uncle d. Husband

Q5 : Looking at the photograph of a man, a woman said, "His father's Mother-in-law is my sister's mother". How is the man related to the woman?

- a. Nephew b. Brother c. Son d. Cannot be Determined

Q6 : If Rita's Maternal uncle (Rita is a Female) is the grandfather of Mohan, how is Rita related to Mohan ?

- a. Aunt b. Mother c. Sister d. Cannot be Determined

Q7 : A man while talking to a lady said, "My Wife's son's father is the brother of your grandfather's son. How is the man related to the lady's mother ?

- a. Brother b. Brother-in-law c. Father d. Uncle

Q8 : A girl while looking at the photograph of a man said "your mother is the only daughter-in-law of my grandfather". How is the girl related to the man's mother ?

- a. Daughter b. Sister c. Neice d. Daughter or Neice.

Q9 : If Mohan is the brother of the daughter of Rakesh's sister, then how is Sheela the wife of Rakesh related to Mohan's sister?

- a. Sister b. Neice c. Aunt d. Cannot be Determined.

Directions for Questions 10 and 11 :

If A+B means A is the brother of B

A X B means A is the wife of B

A / B means A is the son of B

Q10 : What does P / Q X R + S represent ?

- a. P is the daughter of Q
b. S is the brother of R
c. R is the father of P
d. R is the grandfather of S

Q11 : How will the relation "P is the mother of S" be represented ?

- a. $P \times R / S + Q$
b. $S \times R + P / Q$
c. $P + Q \times R / S$
d. None of these

Q12 : If Rahul's maternal grandfather's only son Ramesh is the father of Rita's daughter, then how is Rahul's father Sumit related to Rita's son ?

- a. Son b. Uncle c. Father d. Grandfather

Q13 : A girl while looking at the photograph of a man said, "My Father's sister is the mother-in-law of your mother's daughter-in-law". How is the girl related to the man ?

- a. Sister b. Aunt c. Cousin d. Cannot be Determined

Q14 : A man while looking at the photograph of a lady said "My son is the husband of the only daughter of her mother". How is the man related to the lady in the photograph ?

- a. Father b. Uncle c. Father-in-law d. Either b or c

Q15 : While looking at the photograph of Shekhar, Sunil said, "My Father's brother's son and his father's brother's son are siblings". How is Sunil related to Shekhar ?

- a. Sibling b. Cousin c. Either a or b d. Cannot be Determined

Q16 : If Rita is the wife of the father of Amit's son, then how is Rita related to Amit's mother ?

- a. Daughter b. Daughter-in-law c. Sister d. None of these

Q17 : A is the maternal uncle of the father of B's son, then how is B related to A's only sister C ?

- a. Nephew b. Son c. Daughter-in-law d. Cannot be Determined

Q18 : Looking at the photograph of a lady, a man said "She is the sister of the son of the daughter of my mother's husband" . How is the lady related to the man ?

- a. Neice b. Daughter c. Cousin d. Sister

Q19 : A man while looking at the photo of another man said, "His maternal uncle is my mother's father-in-law". How is the second man's mother related to the first man's father ?

- a. Mother b. Aunt c. Sister d. Cousin

Directions for Questions 20 and 21 :

A + B means A is the husband of B

A – B means B is the daughter of A

A X B means A is the sister of B

Q20 : What does P + Q – R X S represent ?

- a. S is the son of Q.
b. P is the son of R.
c. Q is the nephew of S.
d. P is the father of S.

Q21 : How will the relation Q is the paternal aunt of S be represented ?

- a. P – Q X S + R
b. P + Q – R X S
c. Q X P + R – S
d. Q – P X R + S

Q22 : A girl while looking at the photograph of a man said, " He is the son of the only daughter of my Father's Mother-in-law". How is the girl related to the man's father ?

- a. Daughter b. Sister c. Neice d. Cannot be Determined

Q23 : If Suzzane is the daughter of the Husband of Mr. Raul's second daughter, then how is Suzzane's brother ricky related to Raul's wife ?

- a. Son b. Grandson c. Brother d. None of these

Q24 : A man while looking at the photograph of a lady said, " I am the brother of her mother's sister's daughter" . How is the man related to the lady's mother?

- a. Brother b. Nephew c. Brother-in-law d. Cannot be Determined

Grouping Based: Exercise 1

Set 1 : The Indian team for the 2nd Test Match had to be selected and the captain MSD was in a dilemma. 6 out of the 11 players were already selected. He had to now select the remaining 5 people from the available list of 4 Batsmen and 3 Bowlers such that at least 2 Batsmen and 2 Bowlers were selected. Further conditions are as follows:

1. The Batsmen were Y, R, M and S while the bowlers were A, N and P. No Bowler could qualify as a Batsman and vice versa.
2. If Y is selected, then R should be definitely selected.
3. S and M always want to be selected together.
4. Since R and A do not share a good rapport, they cannot be selected together.
5. At least 1 from Y and M should be in the team.

Q1 : Which of the following is an acceptable selection of the 5 players?

- a. Y,N,A,M,P b. S,M,R,A,N c. Y,R,A,N,P d. M,S,R,N,P

Q2 : Who among the following if selected will contradict the basic conditions?

- a. M b. Y c. R d. A

Q3 : If A is definitely selected, in how many ways can the 5 players be selected?

- a. 1 b. 2 c. 3 d. 4

Q4 : If M is selected, then the complete and accurate list of all the bowlers who can be selected is?

- a. N and P b. A and P c. A and N d. N,P and A

Set 2 : A Cinema Multiplex has to screen 4 different types of movies 2 Horror, 2 Action, 2 Comedy and 2 Romance movies on 4 Sundays of a particular month such that there is at least 1 movie screened on each Sunday. Further conditions are as follows:

1. Due to the audience, none of the Horror movies can be screened on the same day as a comedy.
2. If 2 action movies are screened on a Sunday, then a Romance also needs to be screened on the same day.
3. No more than 3 movies can be screened on a particular day.

4. Both the Comedies cannot be screened on the same day.
5. If both the Horror movies are to be screened together, it has to be the last Sunday of the month.

Q5 : If Comedy movies are screened one each on the 3rd and 4th Sunday, then which of the following can be true?

- a. A Romance movie is screened on the 1st Sunday.
- b. Both the action movies are screened on the same Sunday.
- c. A Horror Movie is screened with a Comedy on the 4th Sunday.
- d. A Horror movie is screened on the 3rd Sunday.

Q6 : If both the action movies are screened on the 2nd Sunday and both the Horror movies are screened together, then which of the following is definitely false?

- a. 2 Movies can be screened on the first Sunday.
- b. 1 Movie can be screened on the first Sunday.
- c. A Romance can be screened on the 3rd Sunday.
- d. Both the Romance Movies can be screened on the same Sunday.

Q7 : Which one of the following is an acceptable sequence of Movies shown?

- a. (Horror, Horror) , (Comedy, Romance) , (Comedy, Action) , (Action, Romance)
- b. (Comedy) , (Action, Action, Romance) , (Comedy, Romance) , (Horror, Horror)
- c. (Comedy, Romance) , (Horror, Comedy) , (Action, Romance) , (Action, Horror)
- d. (Comedy, Romance) , (Horror, Romance) , (Action, Action, Comedy), (Horror)

Set 3 : Sandeep, the director is in the process of completing the last stage of his film which includes the integration of Music, Editing, Cinematography, Dialogues and Dubbing not in any particular order. He has 5 people to do the job out of which A and B are experts in Music, B and C experts in Editing, C and D experts in Cinematography, D and E experts in Dialogue while E and A are experts in Dubbing. Further conditions are as follows:

1. Each part has to be done by exactly 1 person and no 2 consecutive tasks can be done by the same person.
2. Editing can be done only after the completion of Dubbing and Dialogues.
3. Music cannot be the first task in the series.

Q8 : If Music is the 2nd task in the series, which of the following is definitely not true?

- a. E works on the first task.
- b. Cinematography is the first task.
- c. B works on the first task.
- d. Dialogues are done after Dubbing.

Q9 : If Cinematography immediately follows Dialogue, which of the following is definitely true?

- a. Music is the last task to be completed.
- b. Editing is the 4th task to be completed.
- c. The Integration would start with Dubbing.
- d. Editing cannot be among the first 3 tasks.

Q10 : If Cinematography is the first task and Editing the last task in the series, then which will be the 2nd task in the Series?

- a. Dialogue
- b. Dubbing
- c. Music
- d. Cannot be Determined

Q11 : If Dubbing and Dialogue are to be consecutive tasks and Dialogue is done by E, then who will be the expert involved in Dubbing?

- a. A
- b. E
- c. D
- d. Cannot be Determined

Set 4 : 9 people in a family have to go out for having Dinner. There are 2 available cars called Car 1 and Car 2, each of which can accommodate 5 persons. But there are certain conditions that need to be followed:

1. Vats will always go in Car 1 and does not want Aks in the same car.
2. Exactly 2 out of the 3 children Meh, Rey and Dan will be in one car.

3. Chat and Nag will always be together in a Car.
4. If Ana and Aks are in the same car, then Vij will also be in the same car.
5. Any Car cannot have more than 5 persons.

Q12 : If Meh and Rey are in Car 1, how many different combinations are possible?

- a. 6
- b. 5
- c. 3
- d. 4

Q13 : If Ana and Aks are not in the same car, then which among the following cannot be the complete list of the occupants of car 1?

- a. Vats, Ana, Chat, Nag, Rey
- b. Vats, Ana, Vij, Rey, Meh
- c. Vats, Nag, Chat, Ana
- d. Vats, Ana, Rey, Dan

Q14 : If Ana is in Car 2 which has 4 persons, then which of the following is definitely true?

- a. Nag is in Car 2.
- b. Car 1 has exactly 1 child.
- c. Vij is in Car 1.
- d. Car 2 has exactly 1 child.

Q15 : If Chat is in Car 2, then who among the following is definitely in Car 1?

- a. Rey
- b. Vij
- c. Ana
- d. Dan

Set 5 : Big B, the political wizard was selecting his team for the forthcoming elections. His team was to have 2 Speech Writers, 2 Spokesmen and 2 Media co-ordinators. The available speech writers for selection were A, B ,C and D. Similarly, the available Spokesmen were E,F and G and the available Media Co-ordinators were H,I,J,K. Further conditions are as follows :

1. If A is selected, neither F nor J can be selected.
2. If C is selected, then J is definitely selected.
3. H and K will always be selected together.
4. I and K will never be selected together.

Q16 : Which 2 people cannot be the part of the same team?

- a. I and J b. A and D c. B and D d. A and C

Q17 : Which among the following is an acceptable combination?

- a. A,B,E,F,H,I b. A,B,E,G,I,K c. C,D,E,G,F,I d. None of These

Q18 : If C is selected, who among the following will definitely not get selected?

- a. B b. K c. E d. J

Q19 : If A is selected, in how many ways can the team be selected?

- a. 2 b. 1 c. 3 d. 4

Set 6 : A team is to be selected out of 4 boys Prashant, Amit, Sood and Gupta and 4 girls Ruchi, Neha, Deepti and Sriya such that the team should have at least 2 boys and 2 girls. Further conditions are as follows:

1. If Ruchi is selected, neither Amit nor Sood can be selected.
2. If Prashant is selected, Gupta is also selected.
3. Sriya will be in the team only if Sood is also in the team.
4. Amit if selected, would not like to have Neha in the team.

Q20 : What could be the maximum strength of a Team so formed?

- a. 4 b. 6 c. 5 d. 7

Q21 : If Ruchi is a part of the Team, then who among the following will definitely not be a part of the team?

- a. Prashant b. Deepti c. Sriya d. Gupta

Q22 : If Sriya and Deepti are part of a team of strength 4, then who will definitely be a part of the team?

- a. Amit b. Gupta c. Prashant d. Cannot be Determined