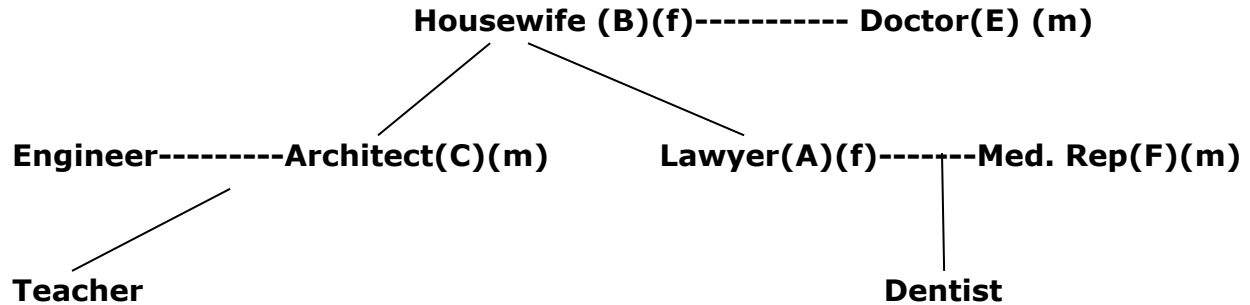


## Blood Relations Based: Exercise 1

### Answers and Explanations:

#### Explanations for Questions 1 to 4:

As per the conditions given, the following can be deduced :



**H**

Ans 1 : Option d

Ans 2 : Option c

Ans 3 : Option d

Ans 4 : Option b

**For Questions 5 to 9 : In all such questions, one of the easiest ways is to start from the end of the statement with reference to the person in the photograph and go towards the beginning with reference to the speaker.**

Ans 5 : Option d

The woman's sister's mother means the woman's mother is the mother-in-law of the man's father ie the lady could be either looking at the photograph of her son or her sister's son. Therefore, cannot be determined.

Ans 6 : Option a

Since Rita's Maternal uncle is Mohan's Grandfather, therefore, Rita must be the aunt of Mohan .

Ans 7 : Option b

The first reference towards the end is the lady's grandfather's son ie the lady's father. Also, the speaker says "My wife's son's father" ie the speaker himself. Therefore, the speaker and the lady's father are brothers. And so the speaker will be the brother-in-law of the lady's mother.

Ans 8 : Option d

The girl could be talking about her own mother in which case, she is talking to her brother about the daughter-in-law of her paternal grandfather or she could be talking about her aunt ie her mother's brother's wife. Therefore, the girl would be either daughter or neice to the man's mother.

Ans 9 : Option c

From the information given, we can deduce that Mohan is the son of Rakesh's sister. Therefore, Sheela the wife of Rakesh will be the Aunt of Mohan and his sister.

Ans 10 : Option c

P / Q means P is the son of Q , Q X R means Q is the wife of R and R + S means R is the brother of S. Therefore, R is the father of P is the correct option.

Ans 11 : Option d

In such a question all the options need to be checked to find out the correct answer but some of the options can be eliminated even without a check. For example let us take option 3.

P + Q means P is the brother of Q which means P is a male but as per the question P has to be a female. Therefore this option cannot be the answer.

Ans 12 : Option b

Rita is the wife of Ramesh. Also Ramesh is the brother of Rahul's mother. Therefore, Rahul's father Sumit will be an uncle to Rita's son.

Ans 13 : Option c

The man's mother's only daughter-in-law will be the man's wife. Now the Mother-in-law of the man's wife ie the man's mother is the sister of the girl's father. Therefore the girl will be a cousin of the man in the photograph.

Ans 14 : Option c

Ans 15 : Option c

Sunil and Shekhar could be either siblings or Sunil could be the cousin of Shekhar.

Ans 16 : Option b

Since Rita is the wife of the father of Amit's son, it means that Rita is the wife of Amit and therefore Rita will be the daughter-in-law of Amit's mother.

Ans 17 : Option d

A is the maternal uncle of the father of B's son ie A is the maternal uncle of either B or B's wife since B's gender is not known. Therefore, B will be either the son or the daughter-in-law of A's only sister C.

Ans 18 : Option a

The daughter of the man's mother's husband would be the man's sister and the lady in the photograph is the man's sister's daughter. Therefore, she will be the man's neice.

Ans 19 : Option b

Ans 20 : Option d

$P + Q$  means P is the husband of Q.  $Q - R$  means R is the daughter of Q and  $R \times S$  means R is the sister of S. Therefore, P will be the father of S.

Ans 21: Option c

Ans 22 : Option a

The girl's Father's Mother-in-law's only daughter must be the girl's mother and the man being the son of the girl's mother must be the girl's brother. Therefore the girl will be the daughter of the man's father.

Ans 23 : Option b

Suzzane is the daughter of Mr. Raul's second daughter and therefore Suzzane's brother Ricky must be the grandson of Mr.Raul's wife.

Ans 24 : Option b

## Grouping Based : Exercise 1

### Answers and Explanations :

#### Set 1 :

Ans 1 : Option d

Check using the options. The correct answer is Option d. Option A is incorrect as Y is selected but R is not selected. Option b and c are incorrect because R and A cannot be selected together.

Ans 2 : Option b

If Y is selected, then R is definitely selected. Now both S and M have to be selected together which in this case is not possible. Therefore, all the 3 Bowlers have to be selected but R and A cannot be selected together. Therefore, if Y is selected, then the conditions would get contradicted.

Ans 3 : Option a

If A is selected, then R and Y cannot be selected which means that all the 3 Bowlers and S and M will get selected. ie there is only 1 way to select the Team.

Ans 4 : Option d

If M is selected, then S is also definitely selected. Now the 3<sup>rd</sup> person can be R which means that 2 Bowlers will get selected ie N and P or the 2 Batsmen M and S get selected and all the 3 bowlers are selected.

Ans 5 : Option a

If Comedy Movies are screened on the 3<sup>rd</sup> and 4<sup>th</sup> Sunday, it would mean that the Horror Movies cannot be screened during these Sundays. Also, the Horror Movies cannot be screened on the same Sunday (If this happens it has to be the 4<sup>th</sup> Sunday which in this case is not possible). Therefore, the Horror Movies have to be screened one each on the 1<sup>st</sup> and 2<sup>nd</sup> Sunday.

As of now, there is one Movie per Sunday. Now the 2 action movies cannot be shown together on any Sunday since a Romance will also have to be shown.

Out of the given options only option a can be true.

Ans 6 : Option d

If 2 action movies are shown on the 2<sup>nd</sup> Sunday, then a Romance needs to be shown on the 2<sup>nd</sup> Sunday. This would complete the quota of 3 Movies and so, option d is definitely false.

Ans 7 : Option b

Option a is incorrect because 2 Horror Movies cannot be shown on the first Sunday. Option c is incorrect because a Horror Movie and a Comedy cannot be shown together. Option d is incorrect because if 2 Action Movies are shown together, then a Romance also needs to be shown on the same Sunday.

Ans 8 : Option c

B can work on either Editing or Music none of which can be the first task done.

Ans 9 : Option d

If Cinematography immediately follows Dialogue, then Editing has to be definitely done after Dubbing, Dialogue and Cinematography not in any particular order which means that Editing cannot be definitely in the first 3 tasks.

Ans 10 : Option d

Ans 11 : Option a

Since Dialogue is done by E and no 2 consecutive tasks can be done by the same person, therefore Dubbing cannot be done by E. The other expert who can be involved in Dubbing is A and so Dubbing will be done by A.

Ans 12 : Option c

Vats is in Car 1 and Aks is in Car 2. Now Meh and Rey are also in Car 1 which means that Dan is in Car 2.

Car 1 : Vats, Meh and Rey

Car 2 : Aks , Dan

The number of possible ways to arrange the remaining persons is

Car 1 : Chat, Nag

Car 2 : Ana , Vij

Car 1 : Ana, Vij

Car 2 : Chat, Nag

Car 1 : Ana

Car 2 : Chat, Nag, Vij

Ans 13 : Option c

In option c, all the children are in Car 2 which contradicts the basic condition.

Ans 14 : Option d

If Ana is in Car 2 which has exactly 4 persons. Aks is already in Car 2 and since Aks and Ana both are in Car 2, therefore, Vij is also in Car 2 which means that Car 2 will have exactly 1 child.

Ans 15 : Option c

If Chat is in Car 2, Nag is also in Car 2. Now if Ana is also in Car 2, then Vij will also be in Car 2. This would mean that all the three children are in Car 1 which in turn violates the basic condition.

Ans 16 : Option d

A and C cannot be part of the same team since F has to be always selected with C but never with A.

Ans 17 : Option d

Option a is incorrect as A and F can never be selected together. Option b is incorrect as I and K can never be selected together. Option c is incorrect as J should always be selected with C.

Ans 18 : Option b

If C is selected, then J is also definitely selected. Now either both H and K can be selected which is not possible (number of Media Co-ordinators should be 2). Therefore, if C is selected, then K cannot be a part of the Team.

Ans 19 : Option a

If A is selected, then C cannot be selected. This would mean that any one of B or D is selected. ie the 2<sup>nd</sup> Speech writer can be selected in 2 ways. If A is selected, then F cannot be selected ie both E and G will get selected ie the 2 Spokesmen can be selected in exactly 1 way. Now If A is selected, then J cannot be selected. Also, H

and K are to be selected together ie the 2 Media Co-ordinators can be selected in exactly 1 way. Therefore, the team can be selected in  $2 \times 1 \times 1$  ie 2 ways.

Ans 20 : Option b

A team of 6 persons can be formed as follows :

Prashant,Amit,Sood,Gupta,Sriya,Deepti.

or Prashant,Sood,Gupta,Sriya,Deepti,Neha.

Ans 21 : Option c

If Ruchi is selected, then Both Amit and Sood cannot be selected and Sriya will be in the team only if Sood is also in the Team and therefore, Sriya cannot be a part of the Team.

Ans 22 : Option d

If Sriya and Deepti are part of a team of strength 4, it means that 2 boys have to be selected. Since Sriya is selected, therefore, Sood will be definitely selected. Now the 2<sup>nd</sup> boy can be either Amit or Gupta. Therefore answer will be cannot be determined.