



GATE-2023

General Aptitude Complete Course

"Logical Reasoning – Blood Relations"

2nd November 2022, 11 AM

Christy Varghese



By Christy Varghese
(Author, Aptitude Trainer,
& Unacademy Educator)

FROM SEPTEMBER 21ST



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Agricultural Engineering	AG	Mathematics	MA
Architecture and Planning (New Pattern)	AR	Mechanical Engineering	ME
Biomedical Engineering	BM	Mining Engineering	MN
Biotechnology	BT	Metallurgical Engineering	MT
Civil Engineering	CE	Naval Architecture and Marine Engineering (New Paper)	NM
Chemical Engineering	CH	Petroleum Engineering	PE
Computer Science and Information Technology	CS	Physics	PH
Chemistry	CY	Production and Industrial Engineering	PI
Electronics and Communication Engineering	EC	Statistics	ST
Electrical Engineering	EE	Textile Engineering and Fibre Science	TF
Environmental Science & Engineering	ES	Engineering Sciences	XE
Ecology and Evolution	EY	Humanities & Social Sciences	XH
Geomatics Engineering (New Paper)	GE	Life Sciences	XL
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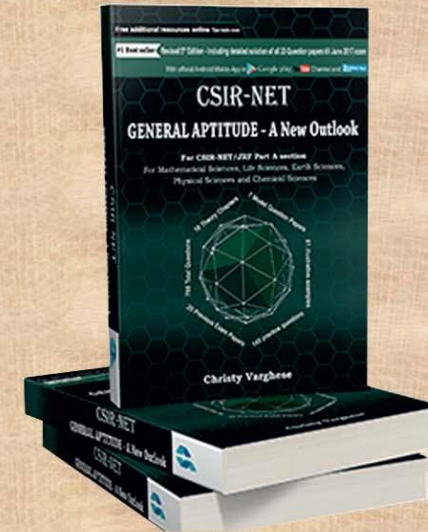
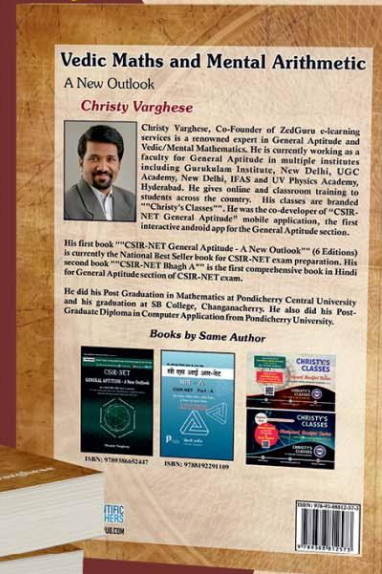
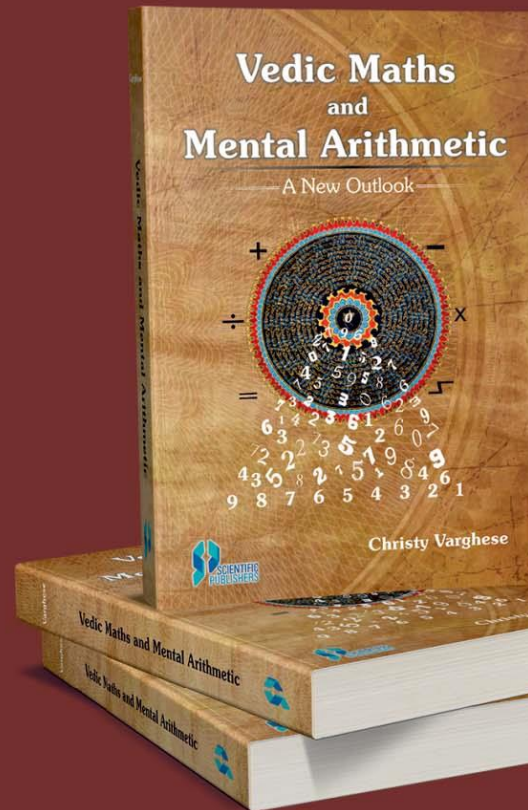
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About the Author

Christy Varghese, Co-Founder of ZedGuru e-learning services is a renowned expert in General Aptitude and Vedic/Mental Mathematics. He is currently working as an Educator in Unacademy and as a faculty for General Aptitude in multiple institutes including Gurukulam Institute, New Delhi, IFAS and UV Physics Academy, Hyderabad. He gives online and classroom training to students across the country. His classes are branded "Christy's Classes". He was the co-developer of "CSIR-NET General Aptitude" mobile application, the first interactive android app for the General Aptitude section. He won the "100 Inspiring Authors of India - 2018" Award by 'The Indian Awaz'.

His first book "CSIR-NET General Aptitude - A New Outlook" is currently the National Best Seller book for CSIR-NET exam preparation. His second book "CSIR-NET Bhagh A" is the first comprehensive book in Hindi for General Aptitude section of CSIR-NET exam.

He did his Post Graduation in Mathematics at Pondicherry Central University and his graduation at SB College, Changanacherry. He also did his Post-Graduate Diploma in Computer Application from Pondicherry University.

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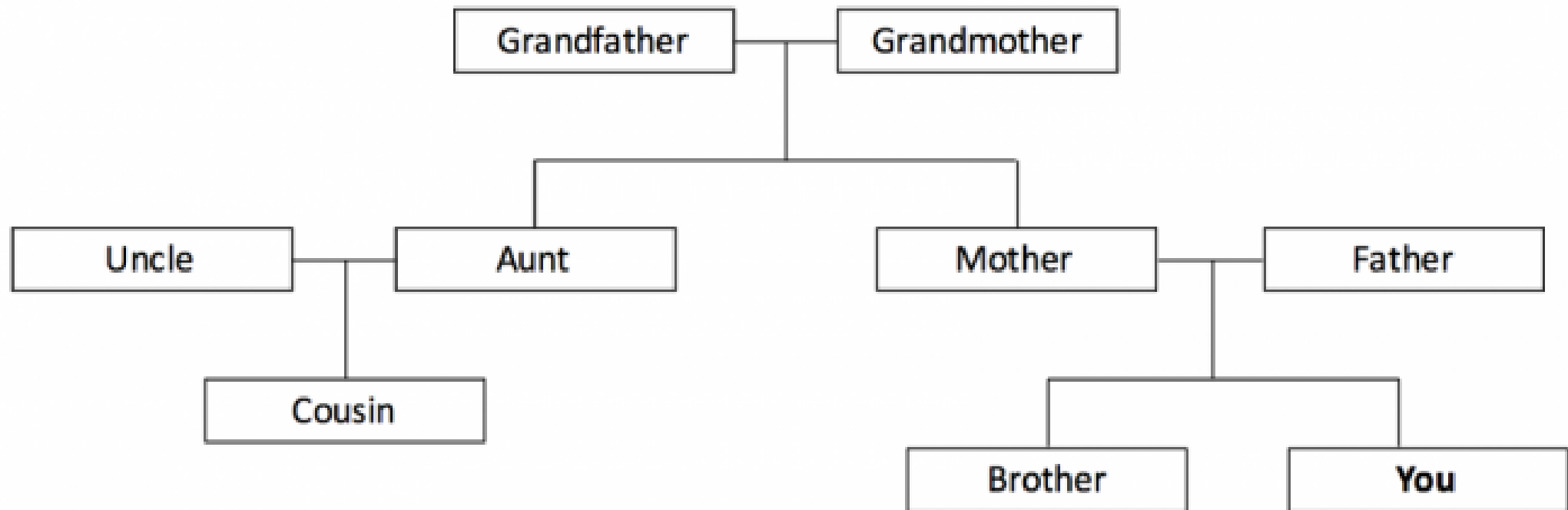
Three generations above	Great grandfather Maternal great grandfather Great grandfather-in-law	Great grandmother Maternal great grandmother Great grandmother-in-law
Two generations above	Grandfather Maternal grandfather Grandfather-in-law	Grandmother Maternal grandmother Grandmother-in-law
One generation above	Father, Uncle, Maternal uncle, Father-in-law	Mother, Aunt, Maternal aunt, Mother-in-law
Current generation(Self)	Husband, Brother, Cousin, Brother-in-law	Wife, Sister, Cousin, Sister-in-law
One generation below	Son Nephew Son-in-law	Daughter Niece Daughter-in-law
Two generations below	Grandson Grandson-in-law	Granddaughter Granddaughter-in-law
Three generations below	Great-grandson Great grandson-in-law	Great granddaughter Great granddaughter-in-law

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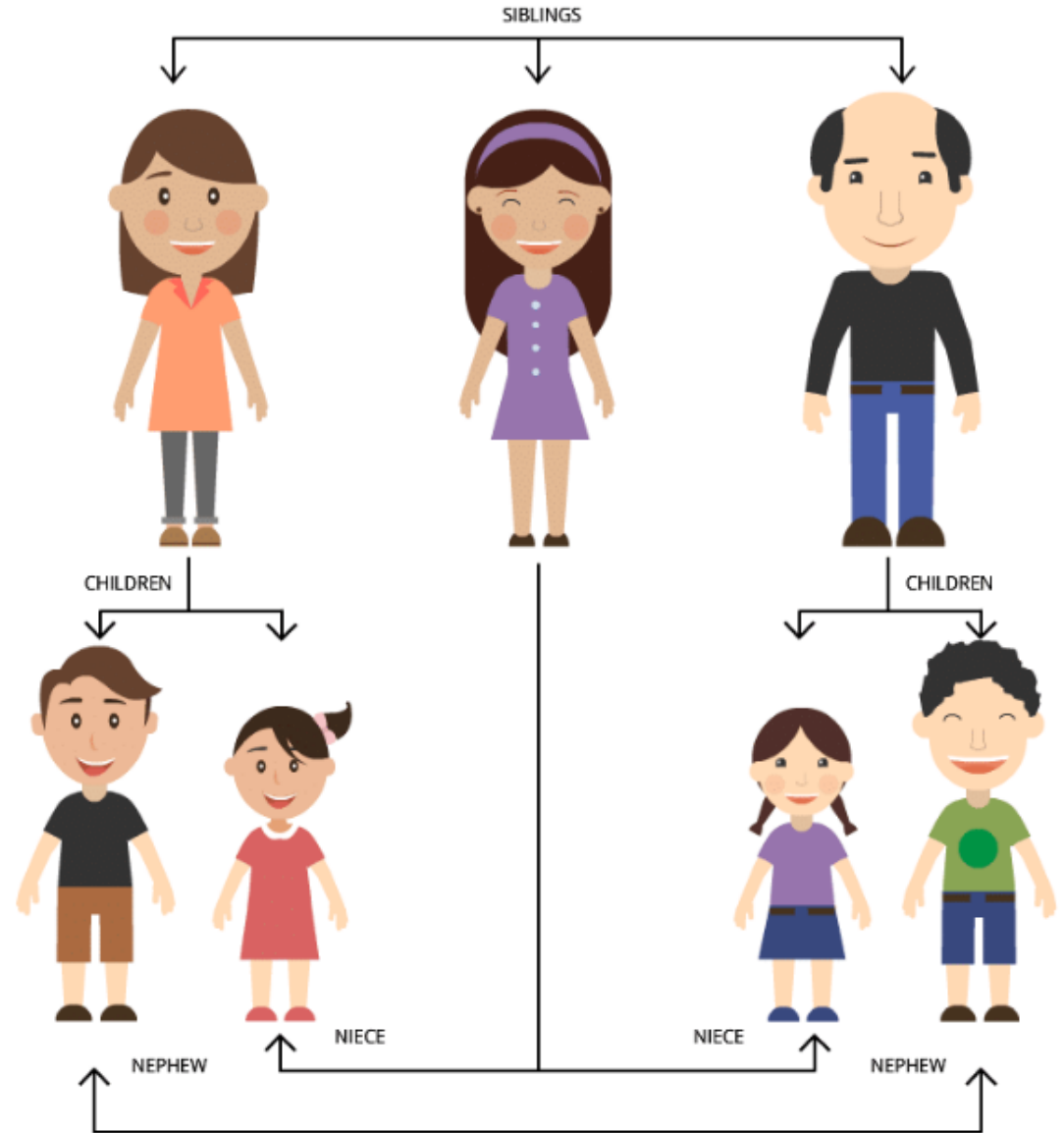
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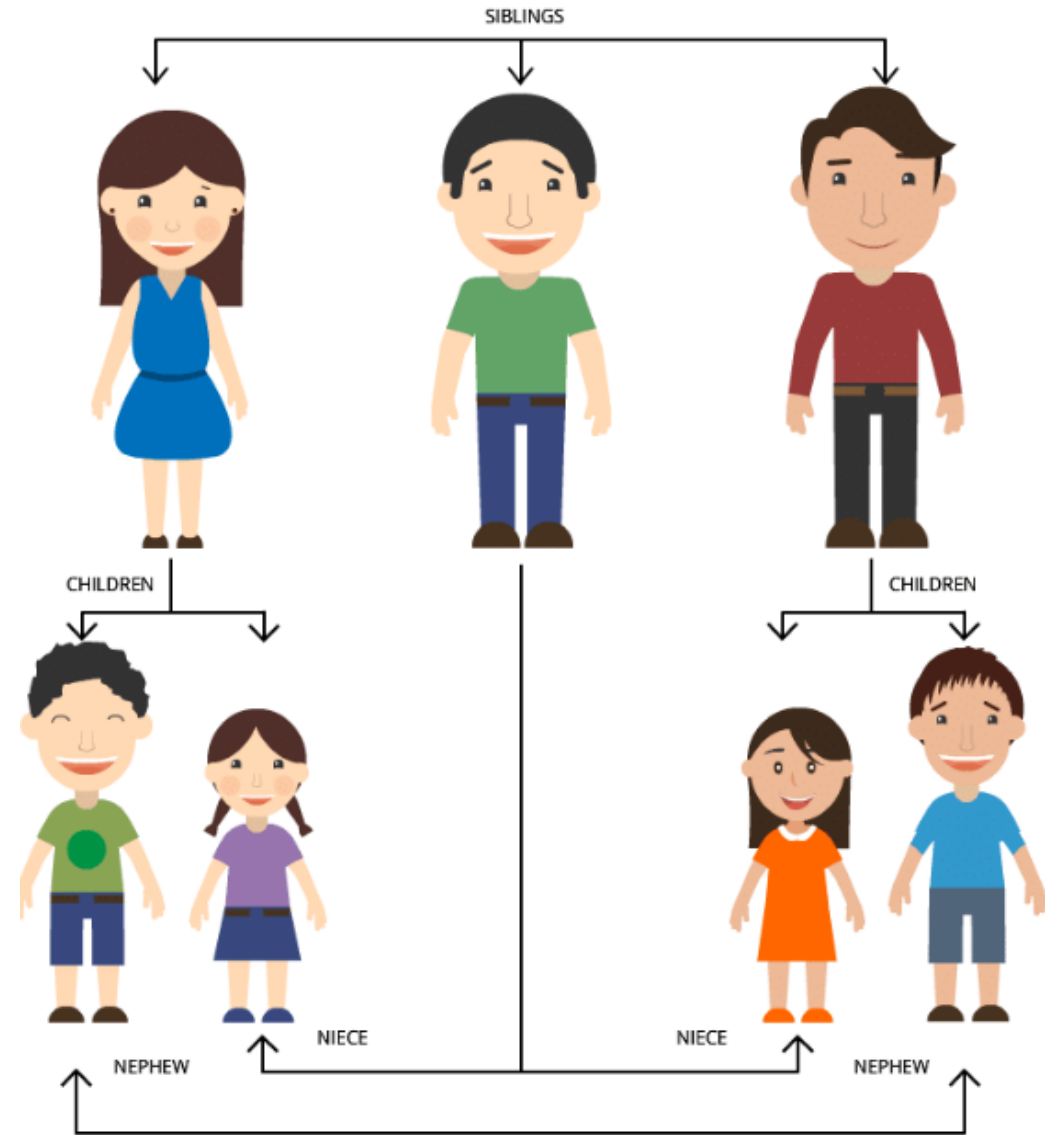
Relationship Tree



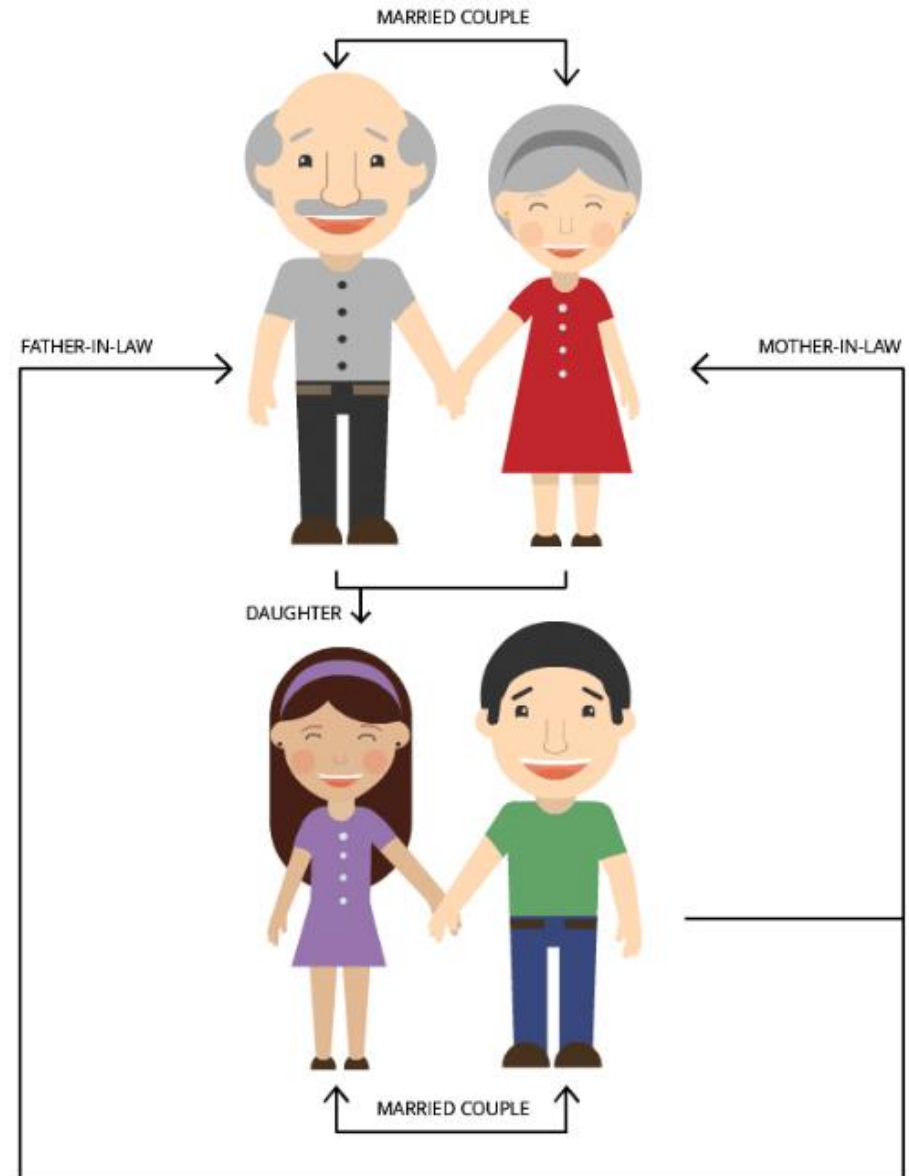
Nephew and Niece



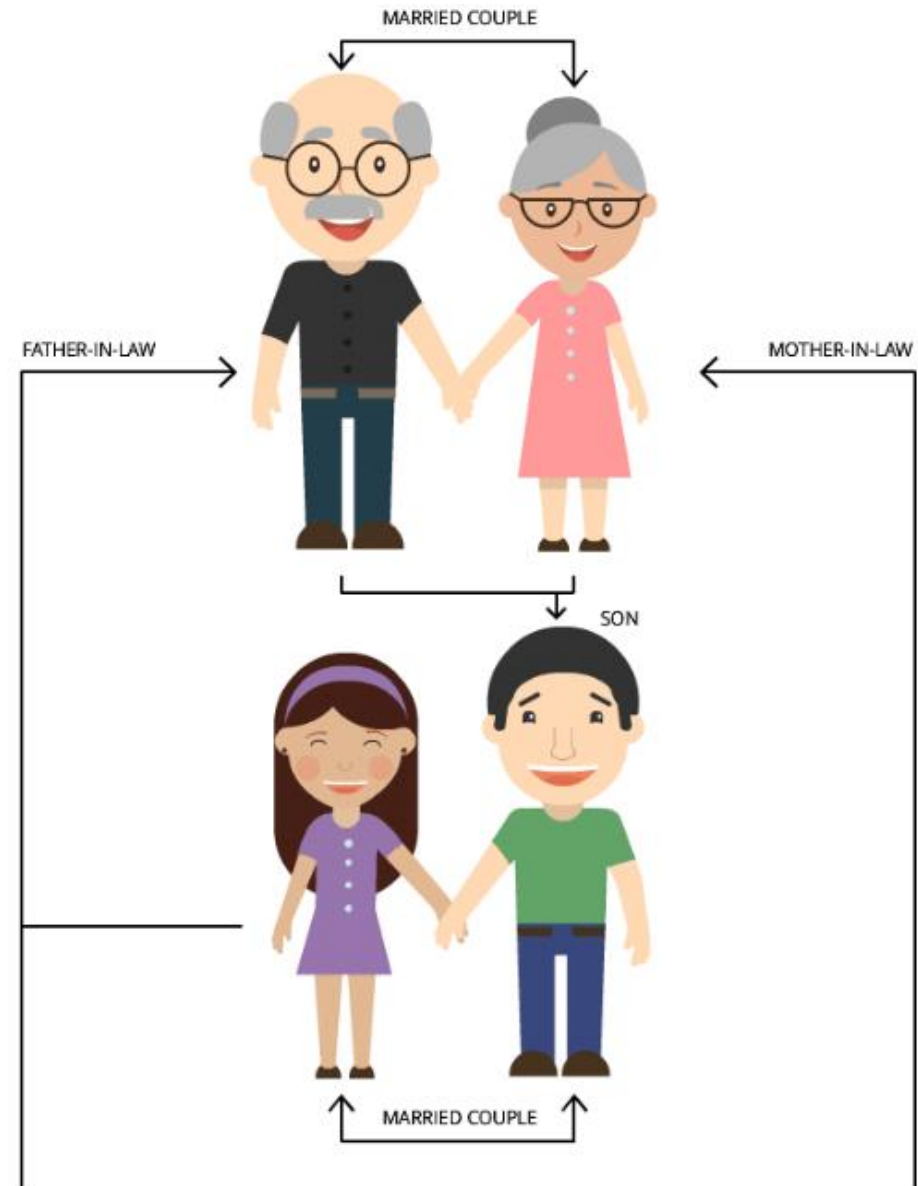
Nephew and Niece



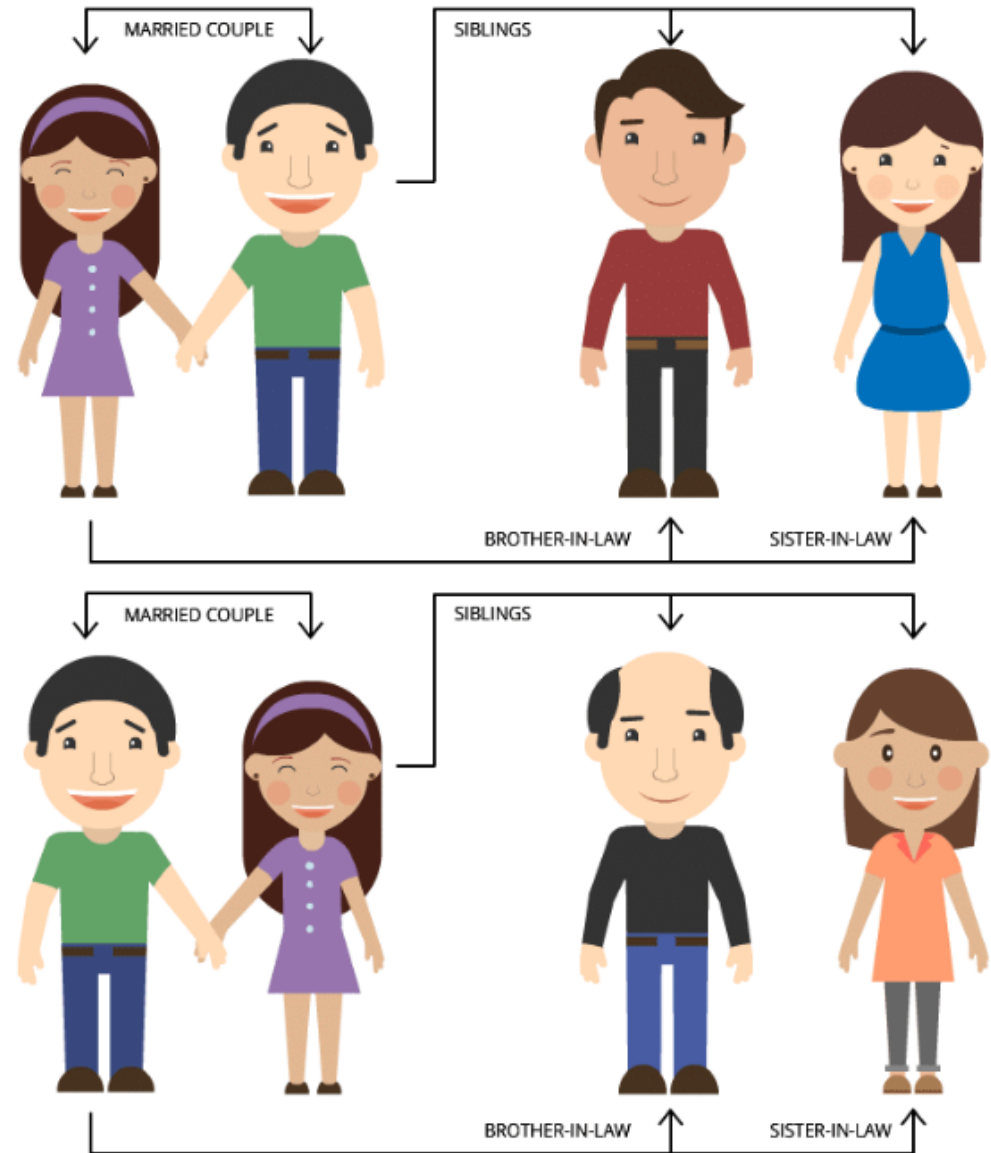
Mother-in-law and father-in-law



Mother-in-law and father-in-law



Brother-in-law and sister-in-law



Given the statements:

- **P is the sister of Q.**
- **Q is the husband of R.**
- **R is the mother of S.**
- **T is the husband of P.**

Based on the above information, T is _____ of S.

(A) the grandfather (B) an uncle (C) the father (D) a brother

(GATE 2022)

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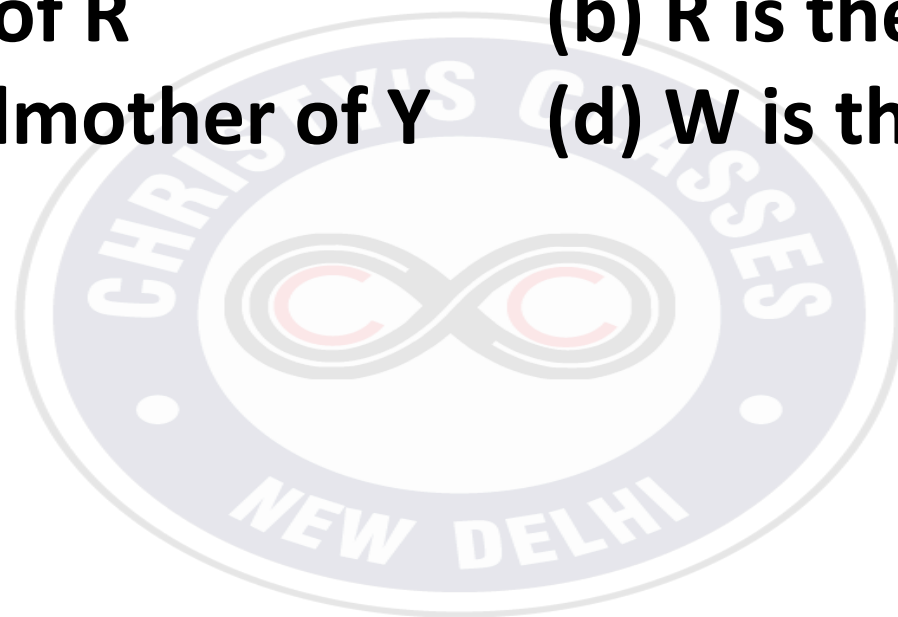
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M and N has four children P, Q, R and S. Of them, only P and R were married. They had children X and Y respectively. If Y is a legitimate child of W, which one of the following statements is necessarily FALSE?

- (a) W is the wife of R (b) R is the father of Y**
(c) M is the grandmother of Y (d) W is the wife of P

(GATE 2019)



M and N has four children P, Q, R and S. Of them, only P and R were married. They had children X and Y respectively. If Y is a legitimate child of W, which one of the following statements is necessarily FALSE?

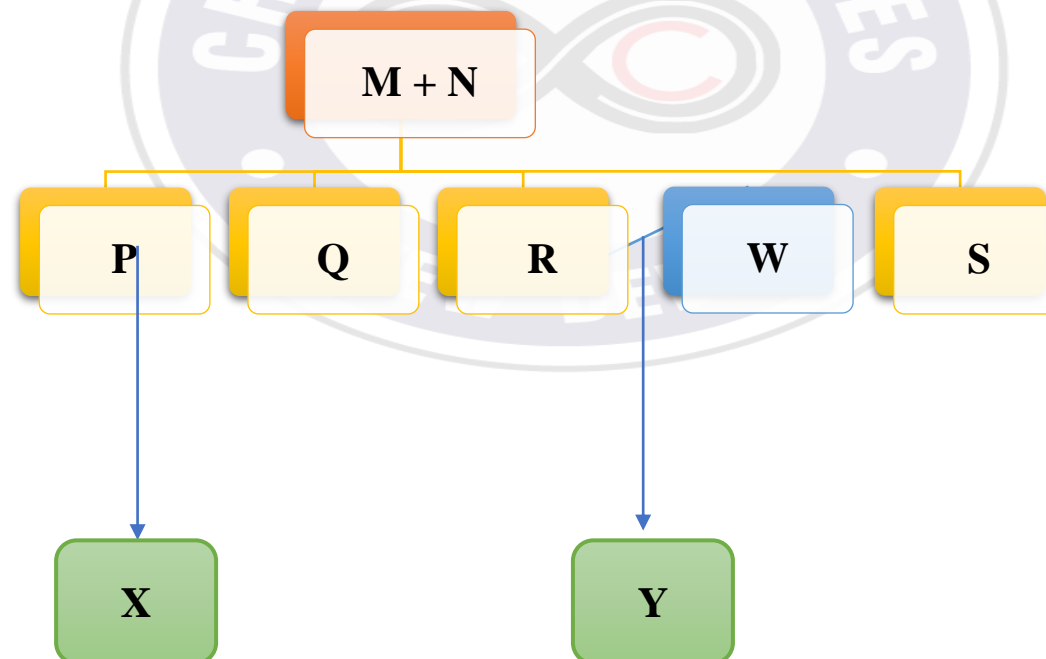
(a) W is the wife of R

(b) R is the father of Y

(c) M is the grandmother of Y

(d) W is the wife of P

(GATE 2019)

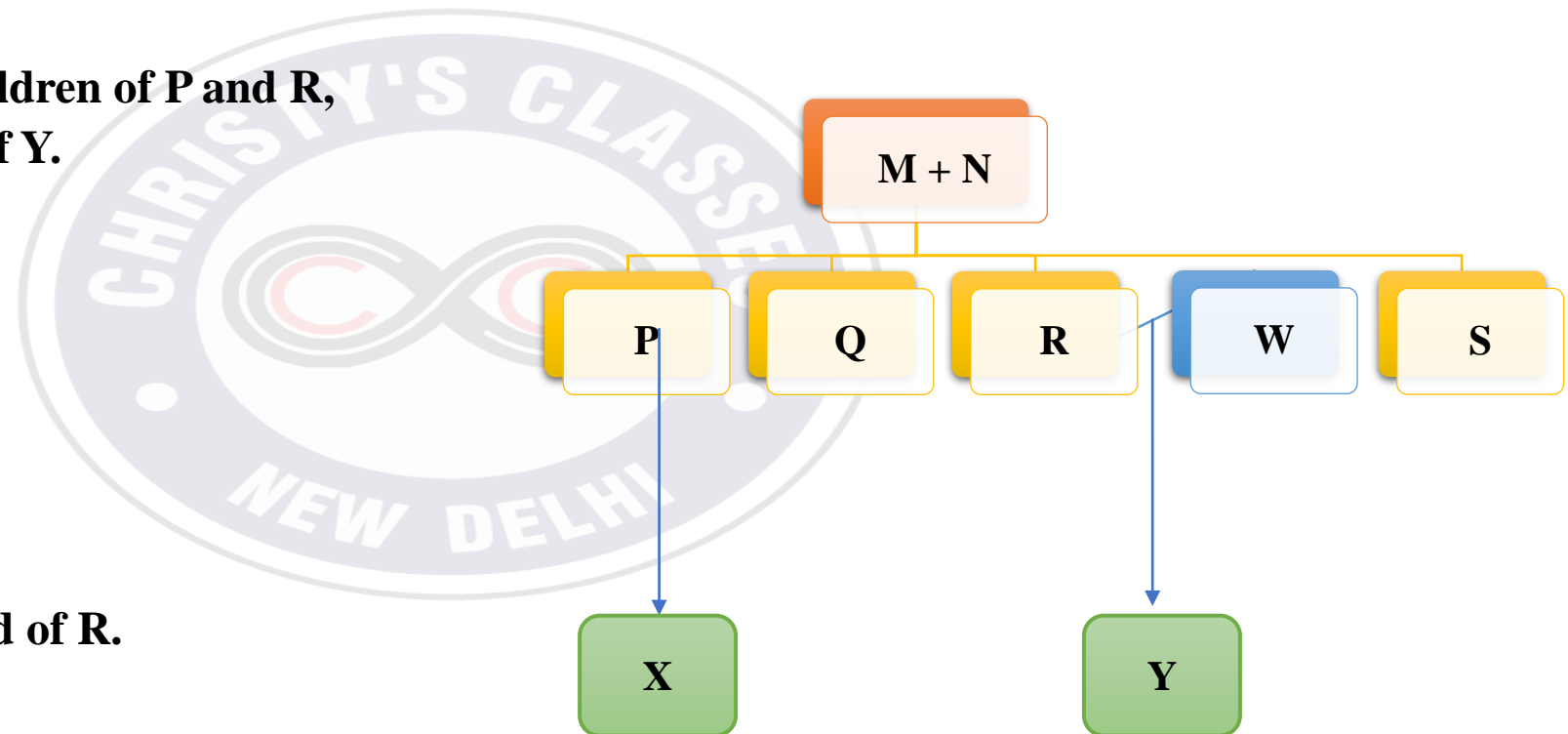


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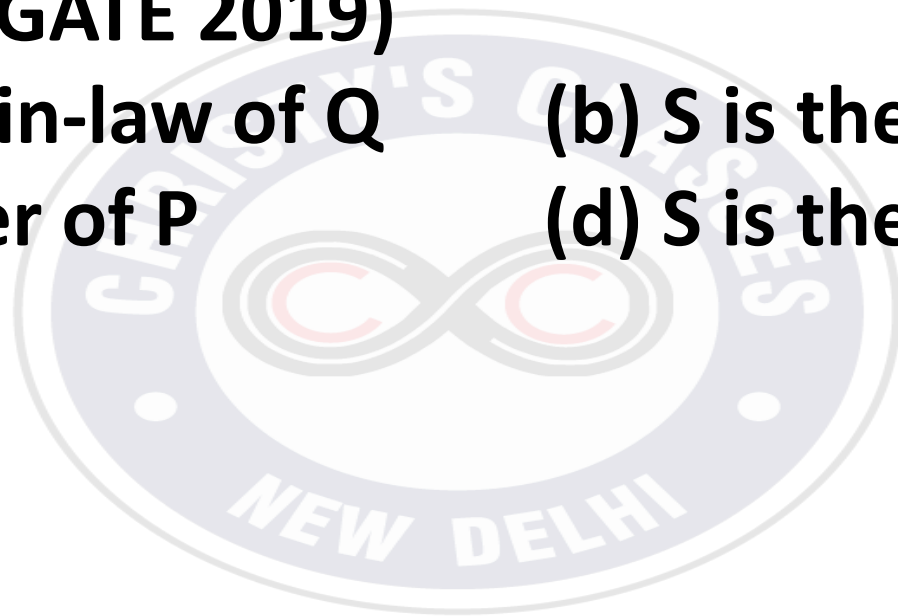
- ⇒ (A) M is the grandmother of Y.
- It's possible, as M and N had married children P and R whose children are X and Y respectively.
 - So, M can be the grandmother of Y as in question M and N genders are not mention.
- ⇒ (B) R is the father of Y
- It can be TRUE, as X and Y are children of P and R,
 - So, R can be the father or mother of Y.
- ⇒ (C) W is the wife of R
- It's possible.
 - W can be husband or wife of R.
- ⇒ (D) W is the wife of P
- It's not possible.
 - As, W is either wife of R or husband of R.
 - So, it's necessarily FALSE.



CORRECT ANSWER : D

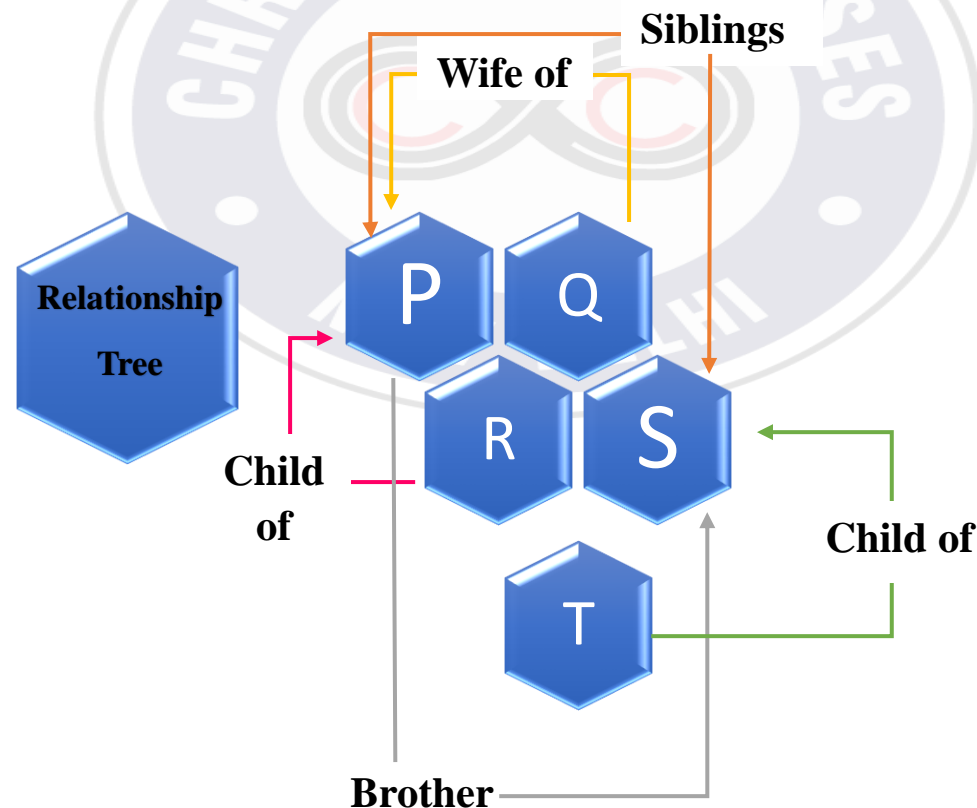
P, Q, R, S and T are related and belong to the same family. P is the brother of S. Q is the wife of P. R and T are the children of the siblings P and S respectively. Which one of the following statements is necessarily FALSE? (GATE 2019)

- (a) S is the sister-in-law of Q (b) S is the aunt of R**
(c) S is the brother of P (d) S is the aunt of T



P, Q, R, S and T are related and belong to the same family. P is the brother of S. Q is the wife of P. R and T are the children of the siblings P and S respectively. Which one of the following statements is necessarily FALSE? (GATE 2019)

- (a) S is the sister-in-law of Q (b) S is the aunt of R
(c) S is the brother of P (d) S is the aunt of T



CORRECT ANSWER : D

Each of P, Q, R, S, W, X, Y and Z has been married at most once. X and Y are married and have two children P and Q. Z is the grandfather of the daughter S of P. Further, Z and W are married and are parents of R. Which one of the following must necessarily be FALSE?

(GATE 2017)

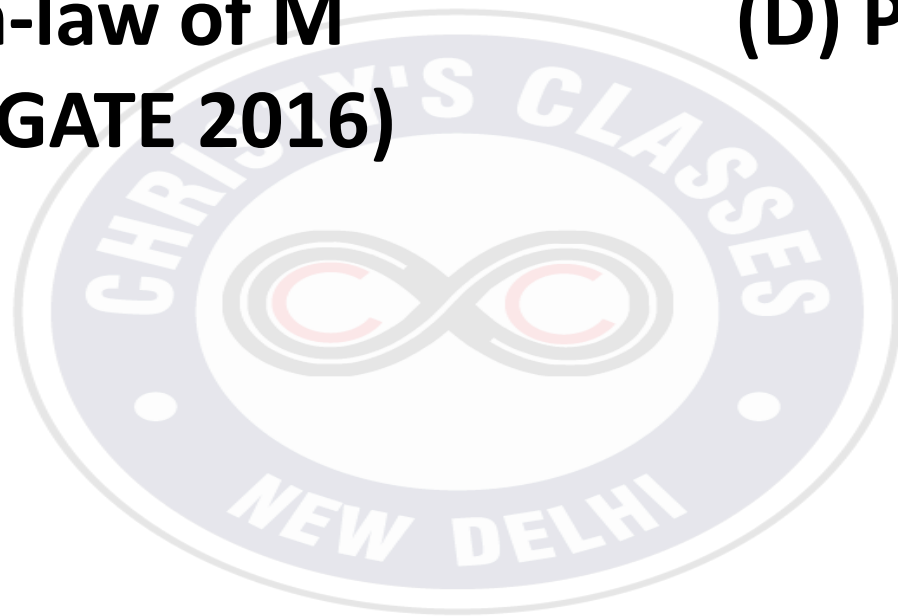
- (a) X is the mother-in-law of R**
- (b) P and R are not married to each other**
- (c) P is a son of X and Y**
- (d) Q cannot be married to R**

CORRECT ANSWER : B

‘M’ has a son ‘Q’ and a daughter ‘R’. He has no other children. ‘E’ is the mother of ‘P’ and daughter-in-law of ‘M’. How is ‘P’ related to ‘M’?

- (A) P is the son-in law of M. (B) P is the grandchild of M.**
(C) P is the daughter-in-law of M (D) P is the guardian of M.

(GATE 2016)



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CORRECT ANSWER : B

A man goes to the house of Sita, who is the neighbor of Geeta, who has a daughter named Meera. Ashu is Aman's father and is married to Anjali, who is sister of Geeta. How is Meera related to Anjali?

- (a) Niece (b) Cousin (c) Sister (d) Aunt**



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CORRECT ANSWER : A

Suresh and Vidya are cousins. Madhuri is the sister of Vidya. Ganesh is the father of Suresh. How is Madhuri related to Ganesh ?

- (A) Daughter (B) Niece (C) Cousin (D) Uncle**



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CORRECT ANSWER : B

If A is the brother of B; B is the sister of C; and C is the father of D, how D is related to A?

A. Brother B. Sister C. Nephew D. Cannot be determined



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