Relation and Function

CASE STUDY 1:

A general election of Lok Sabha is a gigantic exercise. About 911 million people were eligible to vote and voter turnout was about 67%, the highest ever

ONE - NATION
ONE - ELECTION
FESTIVAL OF
DEMOCRACY
GENERAL ELECTION 2019



Let I be the set of all citizens of India who were eligible to exercise their voting right in general election held in 2019. A relation 'R' is defined on I as follows:

 $R = \{(V1, V2) : V1, V2 \in I \text{ and both use their voting it } P \text{ in general election} - 2019\}$

- Two neighbors X and Y∈ I. Never bed his voting right while Y did not cast her vote in general election 2019. Which of the following is true?
- PI.E(Y,X) ER
 - c. (X,X) ∉R
 - d. (X,Y) ∉R
 - 2. Mr.'X' and his wife 'W'both exercised their voting right in general election -2019, Which of the following is true?
 - a. both (X,W) and $(W,X) \in R$
 - b. $(X,W) \in R$ but $(W,X) \notin R$
 - c. both (X,W) and (W,X) ∉ R
 - d. $(W,X) \in R$ but $(X,W) \notin R$
 - 3. Three friends F₁, F2 and F₃ exercised their voting right in general election-2019, then which of the following is true?
 - a. $(F1,F2) \in R$, $(F2,F3) \in R$ and $(F1,F3) \in R$
 - b. (F1,F2) ∈ R, (F2,F3) ∈ R and (F1,F3) ∉ R
 - c. $(F1,F2) \in R$, $(F2,F2) \in R$ but $(F3,F3) \notin R$
 - d. (F1,F2) ∉ R, (F2,F3) ∉ R and (F1,F3) ∉ R