28/09/21

Due in one week.

Assignment 3

1. Represent the following sentences using the logical formulae. [5 marks]
2. When the lockdown was declared, John went to Bombay or Pune and Mary went to Delhi.
3. I don’t remember but either John or Mary went to Bombay and Susan went to Delhi.
4. John will not marry Mary if he doesn’t get a job.
5. John will marry Mary or Susan and settle abroad.
6. John will not take the job and Mary will either study further or teach children.
7. Look at the following picture. Give the characters names of your choice. Come up with 10 sentences – some simple sentences and some complex with ‘and’, ‘or’, ‘not’, ‘if’ and ‘if and only if’. Give formulae for each. [10 marks]



1. Give two sets of 3 different sentences that have the same propositions and logic formulae. [2 marks]
2. Give 3 ambiguous sentences and the formula for each interpretation. [3 marks]