



*John likes all kind of food.*

*Apple and vegetable are food*

*Anyone anything eats and not killed is food.*

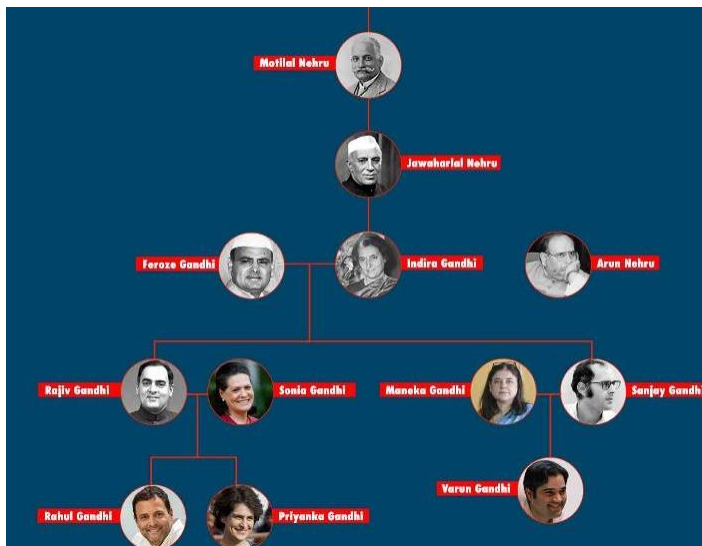
*Anil eats peanuts and still alive*

*Harry eats everything that Anil eats.*

OR

- (b) Explain the concept of multi-agent communication in software agents. 10

- 3 (a) What is recursion? Convert the following family tree using FOL and write the prolog program for recursion.



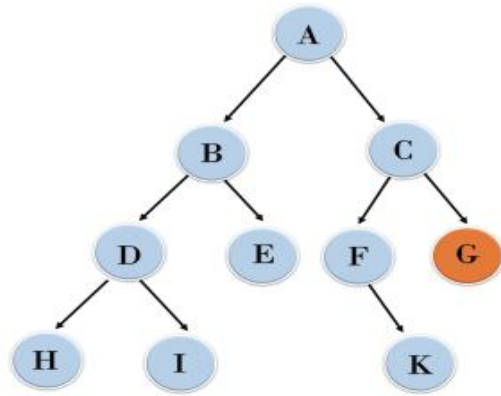
10

OR

- (b) What is classification? Explain the logistic regression technique with an example. 10

**Part - B – (2 x 10 = 20 Marks)**

- 4 Solve the following graph using Breadth first search algorithm with help of queue data structure. 10



Note: A and G are start and goal nodes respectively.

- 5 Predict the Co2 Emission of a new Car using the Ordinary least squares mathematical approach when the number of cylinders are given as 4.

ENGINESIZE	CYLINDERS	FUELCONSUMPTION_COMB	CO2EMISSIONS	
0	2.0	4	8.5	196
1	2.4	4	9.6	221
2	1.5	4	5.9	136
3	3.5	6	11.1	255
4	3.5	6	10.6	244
5	3.5	6	10.0	230
6	3.5	6	10.1	232
7	3.7	6	11.1	255
8	3.7	6	11.6	267

10

