Sample questions on papers discussed (5)

Paper:
ProTDB: Probabilistic Data in XML

Question 1
In ProTDB, what does the probability associated with an element represent. For example, if there is a path from root of the document to an element $E$, what is $P(E)$?

Question 2
Explain, with examples, what independence and mutual-exclusion mean in the context of ProTDB.

Question 3
How does ProTDB handle incompleteness?

Question 4
Write a probabilistic XML document (example) for students and courses they take, where, for each given student, there is uncertainty which courses he/she is taking. Include both independent and mutually exclusive cases (for example, Mary may be taking 675 or 676 but not both).

Question 5
Using the XML document in the paper, how is the query: “What is the name of a US president who is 55 years old” written as a tree pattern query?

Question 6
Obtain the answers to the query of Question 5 using the XML document in the paper.