

1993 Paper 12 Question 8

Databases

Describe the relational model of data. [4 marks]

What is meant by a *candidate key*? [2 marks]

Explain what it means for a relational data model to be presented in

(a) *Third Normal Form* (3NF) [5 marks]

(b) *Fourth Normal Form* (4NF) [5 marks]

in each case illustrating your answer with a suitable example data model.

In what circumstances might it not be sensible to hold relational data according to these normal forms? [4 marks]