Sample Exam questions

CITS4243
Advanced Databases
Things to remember

• You should follow the lecture notes that I have used in the lectures, rather than the lecture notes from the authors.
• I have omitted several parts of the lecture notes from the authors.
Exam format

• The exam paper has three questions to be answered in 2 hours.
• The marks distribution is 15+15+20 for the three questions.
• Each question has three parts.
• You have to answer all questions
• The questions are directly from the lecture notes. However you are encouraged to read the original notes and/or the textbook for better understanding.
Some sample questions

• Explain the structure of a data warehouse and how a data warehouse helps in better analysis of a business.
• What are the main differences between an operational database and a data warehouse?
• Explain with examples some operations that can be performed on a data cube.
Some sample questions

• Explain clearly the major steps of decision tree induction.

• Why is naive Bayesian classifier called naive? Briefly outline the major ideas of naive Bayesian classification.

• Explain intuitively the multilayer feed-forward neural network algorithm.
Sample exam questions

• Explain clearly the differences between supervised and unsupervised learning algorithms.

• Explain the basic idea behind a density-based clustering algorithm. What are the advantages of such an algorithm over the distance-based algorithms?