**Data Mining & Machine Learning – Mock Exam / ICT – 1**

1. What are the different types of Learning/Training models in Machine Learning (ML)?Briefly explain their principles
2. What is the essential difference between classification and clustering?
3. Summarize the strength(s) and the weakness(es) of K-means clustering.
4. Briefly describe the general objective of Association Rules mining. What is the “AprioriPrinciple”?
5. You are training a Multilayer Perceptron (MLP) neural network for a particularclassification task. After, some investigation, your neural network is constructed with 5input variables, one hidden layer with 12 nodes and one output layer with 3 nodes (theclasses). How many network parameters are required to be tuned/trained? Show yourdetailed calculations. (4 marks)