Unit 5: Solutions

Question 1

When designing a machine learning experiment, it is always best to do a **<u>factorial</u>** design unless we are sure the factors being considered do not interact.

Question 2

Which of the following factors is <u>not</u> important to consider when choosing an algorithm for your machine learning problem?

    a. The nature of the data
    b. The accuracy required
    c. The training time available
    d. The size and quality of the data
    e. All of the above factors are important to consider

Question 3

Which of the following programming languages commonly used for machine learning is a popular open source language used for research, scientific and numeric computing, software development, and more?

    a. C++
    b. Java
    c. Python
    d. MATLAB
    e. R

Question 4

True or False. The following list correctly identifies the steps for designing and executing a machine learning experiment.

    A. Aim of the Study
    B. Selection of the Response Variable
    C. Choice of Factors and Levels
    D. Choice of Experimental Design
    E. Performing the Experiment
    F. Statistical Analysis of the Data
    G. Conclusions and Recommendations

Question 5

True or False. The first step to choosing a machine learning algorithm is determining the learning method.