

## Question Bank

### Subject: Machine Learning

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#### Module 3: Learning with Regression

1. Compare regression with classification problem.
2. Discuss the regression problem with example.
3. Explain different types of regression with example.
4. Compare simple linear regression with multivariate regression.
5. Illustrate simple linear/multivariate regression with example.
6. Numerical on simple linear regression( sample training data will be given and you will be asked to find regression coefficients/predict the output for a given input sample)
7. Explain logistic regression with example.
8. Differentiate between linear and logistic regression.
9. Numerical on logistic regression
10. Discuss evaluation metrics of regression model.
11. Numerical to evaluate the model using regression evaluation metrics.
12. List the applications of regression and discuss any one in detail.
13. Compare biological neural network with artificial neural network.
14. Discuss basic operation of NN.
15. Discuss different components of a NN model/ Any one component(architectures, learning algorithms, activation functions) in detail.
16. Explain the working of McCulloch-Pitts(M-P) Model.
17. Numericals on M-P model.
18. Discuss any one real life application of NN-based regression.