

## MACHINE LEARNING

Answers:

- 1)A
- 2)A
- 3)B
- 4)B
- 5)C
- 6) B
- 7)A
- 8)D
- 9) A
- 10) B
- 11) B
- 12) A & B

### **13) Explain the term regularization?**

Regularization is a set of methods for reducing overfitting in machine learning models. Typically, regularization trades a marginal decrease in training accuracy for an increase in generalizability. Regularization encompasses a range of techniques to correct for overfitting in machine

learning models. The term regularization in the context of machine learning refers to a collection of strategies that help the machine learn more than merely memorize.

**14) Which particular algorithms are used for regularization?**

Ridge regression – Its purpose is to overcome problems such as data overfitting and multi collinearity in data.

LASSO – It simply penalizes large coefficients

**15) Explain the term error present in linear regression equation?**

An error term appears in a statistical model, like a regression model, to indicate the uncertainty in the model. The error term is a residual variable that accounts for a lack of perfect goodness of fit.