

**4712099**

**Deep Learning: A Critical Appraisal**

**Question 1:**

Generalization in deep learning is an issue where training data must be similar to the test data. Which of the following is true about generalization?

- a. RNNs are extremely successful in generalizing even when the differences between the training and the test set is large.
- b. Convolutional nets have difficulty in generalizing new perspective on objects in visual recognition tasks
- c. RNNs can accurately represent and generalize the Hierarchical structure as deep learning learns correlation between the features are that are hierarchical.
- d. Generalization doesn't need huge amounts of data for training the neural network and can properly do correct inference when new sentences are provided as input to the neural network.