# Week 6 Practice Quiz

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Correct

1 / 1 points

1. Which of the following is not true about Latent Aspect Rating Analysis (LARA)?

1. LARA is a generative model for inferring ratings of latent aspects.
2. **LARA assumes that all latent aspects have equal weights, and the overall rating is the average of the aspect rating.**

**Correct Response**

The latent aspect weights are not necessarily equal; they are inferred using maximum likelihood.

1. LARA is composed of two stages: aspect segmentation and latent rating regression.

Correct

1 / 1 points

2. True or false? NetPLSA leverages the power of both the text and the network structure to mine topics.

1. **True**

**Correct Response**

1. False

Correct

1 / 1 points

3. True or false? NetPLSA tries to smooth the topic transitions by forcing neighbor nodes in the network to have different topic coverage.

1. True
2. **False**

**Correct Response**

NetPLSA has an additional term in its objective function that penalizes cases where neighbor nodes are assigned different topic coverage.

Correct

1 / 1 points

4. Contextual Probabilistic Latent Semantic Analysis (CPLSA) can be applied to which of the following tasks?

1. Discovering temporal trends of topics in text
2. Revealing how the coverage of topics in different locations evolves over time
3. **All of the above**

**Correct Response**

Both time and location can be treated as context when performing topic modeling, which makes CPLSA an appropriate choice.

Correct

1 / 1 points

5. Suppose we are interested in discovering topics whose coverage in Twitter has strong correlations with airline prices. Which method would be best suited for this task?

1. **Iterative Topic Modeling with Time Series Feedback**

**Correct Response**

Airline prices can be viewed as a time series, so Iterative Topic Modeling with Time Series Feedback is a suitable choice in this case.

1. Contextual PLSA (CPLSA)
2. LDA
3. PLSA

Correct

1 / 1 points

6. Deep learning is a new topic emerging in machine learning. Suppose we are interested in knowing whether US researchers and those outside the US have different focuses when working on this topic. For this purpose, we can collect research publications with metadata such as the author names, their affiliations, and locations. Which of the following text mining techniques is most suitable for this task?

1. Text clustering
2. **Contextual PLSA (CPLSA)**

**Correct Response**

Location can be viewed as the context.

1. Iterative Topic Modeling with Time Series Supervision

Correct

1 / 1 points

7. What is the additional input other than text in casual topic mining?

1. Anchor text
2. **Time**

**Correct Response**

1. Link

Correct

1 / 1 points

8. To measure the causality between two series, which of the following is true?

1. The time the two series arrive at peaks or dips is needed.
2. The correlation of the two values at different time stamps is needed.
3. **Granger is often used.**

**Correct Response**

Correct

1 / 1 points

9. If one is interested in finding out the trending topics in different countries in Twitter with the location information provided, what kind of technique should be used?

1. PLSA
2. Iterative Topic Modeling with Time Series Feedback
3. LDA
4. **Contextual PLSA (CPLSA)**

**Correct Response**

Correct

1 / 1 points

10. What are the two components in LARA?

1. LDA and SVM
2. PLSA and KNN
3. K-means and logistic regression
4. **PLSA and regression**

**Correct Response**