Name: _____

Be sure to use complete sentences to answer each question.
Answer each question fully and clearly.

Article Title & Authors: _____

1. What is the purpose/goal of this study? (at least 2 sentences)
   The purpose of the study is to review and predict the impact of environmental degradation within Brazil with respect to indigenous lands. The study seeks to utilize algorithmic resources to predict environmental outcomes.

2. Why is this issue significant/why do we care? (at least 2 sentences)

With the constant environmental changes presented by climate change, the prediction of changes and application of predictive measurement systems is crucial. These sources can prevent, monitor, and respond to environmental activity proactively.

3. What words/vocab do you need to know to make this make sense? Define them here. (at least 3 terms).

Randomized dependence correlation (RDC)- statistical tool designed to detect nonlinear dependencies between random variables

Recursive feature elimination tool (RFE)- feature selection technique used in machine learning to identify the most relevant predictors for a model.

IBGE vegetation map- the official map of Brazil, which is based on environmental laws and their limits of action.

4. What approach are they taking in this study? (Describe the specific qualitative or quantitative methods used, at least 3 sentences).

The approach used in the study was one of a quantitative origin, utilizing data from machine learning algorithms to define the results of the experiment. The IBGE vegetation map was provided to the algorithm with the land within in being studied. Through the application of RDC and RFE systems, the data was sourced and cleaned

5. What are the results of the study? Explain what they found when they compared or measured different variables. If there are figures – write a sentence summarizing each figure/table. (at least 3 sentences).

The conclusion of the study described how without the use of monitoring systems, plant coverage and indigenous lands will slowly be eroded until ecological collapse. The vegetation that will remain will be the hardy shrubs and tolerant cover plants. This will deplete the land and destroy what's left of the environment.

6. Does the data make sense based on your experiences? Explain why or why not. (at least 2 sentences)

The data does apply to the current understanding of environmental health and maintains the status quo. From the current understanding, monitoring is crucial to sustainability.

7. How is this pushing the field forward and helping society? (at least 2 sentences)

The propagation of monitoring systems both benefits the field of environmental science as well as other fields which rely on machine learning. This assists in current conservation efforts.