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1. Which of the following statements correctly describe supervised and unsupervised machine learning? Select all that apply.

1 / 1 point

- ☒ In unsupervised machine learning, data professionals ask the model to give them information without telling the model what the answer should be.

✔ Correct

- ☒ Supervised machine learning uses labeled datasets to train algorithms to classify or predict outcomes.

✔ Correct

- ☐ In supervised machine learning, data professionals ask the model to give them information without telling the model what the answer should be.

- ☒ Data professionals use supervised machine learning for prediction.

✔ Correct

2. Fill in the blank: In the process of _____, policies will change depending on whether a reward or punishment is received.

1 / 1 point

- ☐ deep learning
☒ reinforcement learning
☐ quality assurance
☐ artificial intelligence

✔ Correct

3. An analytics team at a college works on a task involving categorical variables. Which of the following variables might be part of the project dataset? Select all that apply.

1 / 1 point

- ☐ Number of books in a classroom
☒ Student nationalities

✔ Correct

- ☒ Languages spoken at the college

✔ Correct

- ☒ Teacher subject area expertise

✔ Correct

4. Which of the following statements accurately describe content-based filtering? Select all that apply.

1 / 1 point

- ☒ Content-based filtering makes comparisons based on an item's attributes.

✔ Correct

- ☒ Content-based filtering can map users and items in the same space and then recommend things that are closest to a user's preferences.

✔ Correct

- ☒ Content-based filtering is ineffective at making recommendations across content types.

✔ Correct

- ☐ Content-based filtering requires information from other users to work properly.

5. Fill in the blank: One benefit of collaborative filtering is that it can effectively _____ across content types. 1 / 1 point

- ☐ produce metadata
- ☒ make recommendations
- ☐ visualize data
- ☐ eliminate outliers

✓ Correct

6. A data professional is considering whether the data they are using to build a model is well-sourced. Which PACE stage does this scenario describe? 1 / 1 point

- ☐ Execute
- ☐ Plan
- ☐ Construct
- ☒ Analyze

✓ Correct

7. Which of the following statements accurately describe Python notebooks and scripts? Select all that apply. 0.75 / 1 point

☒ Python notebooks are executed by a computer without the need for human supervision.

✗ This should not be selected
Review [the video about Python for machine learning](#), [↗](#)

☒ Data professionals often alternate between Python notebooks and scripts.

✓ Correct

☐ Python scripts are useful for pairing code with human-readable descriptions and outputs.

☒ Data professionals can use both Python notebooks and scripts to execute code.

✓ Correct

8. Fill in the blank: The data visualization package _____ is effective when creating presentations, such as designing a data visualization for an interactive dashboard. 0 / 1 point

- ☐ HTML
- ☐ Plotly
- ☒ Tableau
- ☐ Matplotlib

✗ Incorrect
Review [the video about Python for machine learning](#), [↗](#)

9. Fill in the blank: In a typical business, a data professional is most likely to request assistance from the _____ department to obtain preliminary information about a dataset. 1 / 1 point

- ☒ business intelligence
- ☐ marketing
- ☐ sales
- ☐ information technology

✓ Correct