

Final Exam

Latest Submission Grade 91.66%

1.

Question 1

What is data visualization used for?

1 / 1 point

☐

Exploring a given data set.

☐

Sharing unbiased representations of data.

☐

Supporting recommendations to different stakeholders.

☒

All of the above.

Correct

2.

Question 2

Which of the following is a layer in the Matplotlib architecture?

1 / 1 point

☒

Backend Layer

☐

Backend_Bases Layer

☐

Figure Layer

☐

FigureCanvas Layer

Correct

3.

Question 3

Which of the following codes uses the artist layer to create a stacked area plot of the data in the *pandas* dataframe, **area_df**?

0 / 1 point

☐

```
ax = area_df.plot(kind='area', figsize=(20, 10)) ax.set_title('Plot Title') ax.set_ylabel('Vertical Axis Label')  
ax.set_xlabel('Horizontal Axis Label')
```

☐

```
ax = area_df.plot(kind='area', figsize=(20, 10)) ax.title('Plot Title') ax.ylabel('Vertical Axis Label')  
ax.xlabel('Horizontal Axis Label')
```

☒

```
import matplotlib.pyplot as plt area_df.plot(kind='area', figsize=(20, 10)) plt.title('Plot Title') plt.ylabel('Vertical Axis  
Label') plt.xlabel('Horizontal Axis Label') plt.show()
```

☐

```
ax = area_df.plot(type='area', figsize=(20, 10)) ax.set_title('Plot Title') ax.set_ylabel('Vertical Axis Label')  
ax.set_xlabel('Horizontal Axis Label')
```

☐

```
import matplotlib.pyplot as plt area_df.plot(type='area', figsize=(20, 10)) plt.set_title('Plot Title')  
plt.set_ylabel('Vertical Axis Label') plt.set_xlabel('Horizontal Axis Label') plt.show()
```

Incorrect

4.

Question 4

Which of the following code will create a stacked area plot of the data in the *pandas* dataframe, **area_df**, with a transparency value of 0.75?

1 / 1 point

☐

```
import matplotlib.pyplot as plt transparency = 0.35 area_df.plot(kind='area', alpha=transparency, figsize=(20,  
10)) plt.title('Plot Title') plt.ylabel('Vertical Axis Label') plt.xlabel('Horizontal Axis Label') plt.show()
```

☐

```
transparency = 0.75 ax = area_df.plot(kind='area', alpha=transparency, stacked=False, figsize=(20, 10))  
ax.set_title('Plot Title') ax.set_ylabel('Vertical Axis Label') ax.set_xlabel('Horizontal Axis Label')
```

☐

```
import matplotlib.pyplot as plt transparency = 1 - 0.75 area_df.plot(kind='area', alpha=transparency,  
stacked=False, figsize=(20, 10)) plt.title('Plot Title') plt.ylabel('Vertical Axis Label') plt.xlabel('Horizontal Axis  
Label') plt.show()
```



```
import matplotlib.pyplot as plt transparency = 0.75 area_df.plot(kind='area', alpha=transparency, figsize=(20, 10)) plt.title('Plot Title') plt.ylabel('Vertical Axis Label') plt.xlabel('Horizontal Axis Label') plt.show()
```

Correct

5.

Question 5

What is a circular graphic that displays numeric proportions by dividing a circle into proportional slices?

1 / 1 point



Radial column chart



Pie chart



Table chart



Bar chart

Correct

6.

Question 6

A bubble plot is a variation of the scatter plot that displays one dimension of data.

1 / 1 point



True.



False.

Correct

7.

Question 7

A waffle chart is a great way to visualize data in relation to a whole, or to highlight progress against a given threshold.

1 / 1 point



True.

☐

False.

Correct

8.

Question 8

A word cloud is a depiction of the meaningful words in some textual data, where the more a specific word appears in the text, the _____.

1 / 1 point

☐

Smaller and lighter it appears in the word cloud.

☒

The bigger and bolder it appears in the word cloud.

☐

The bigger and lighter it appears in the word cloud.

☐

Smaller and bolder it appears in the word cloud.

Correct

9.

Question 9

Stamen Terrain, Stamen Toner, and Mapbox Bright, are three tile styles of Folium maps.

1 / 1 point

☒

True.

☐

False.

Correct

10.

Question 10

What is the correct tile style for Folium maps that feature hill shading and natural vegetation colors?

1 / 1 point



Mapbox Bright



OpenStreetMap



Stamen Watercolor



Stamen Terrain

Correct

11.

Question 11

Plotly visualizations cannot be displayed in which of the following ways

1 / 1 point



Displayed in Jupyter notebook



Saved to HTML files



Served as a pure python-build applications using Dash



None of the above

Correct

12.

Question 12

Which of the following statements is true for Dash?

1 / 1 point



Declarative and Reactive.



All of the above



An open-source user interface Python library from Plotly.



Rendered in web browser and can be deployed to servers.



Easy to build GUI.

Correct