

Applied Data Analysis with Python Modular Exam

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Score Obtained: RETAKE (/PACKAGE-COST-DETAILS/#) **VIEW REPORT**
45/50 (90%)

What will be output for the following code?

```
import pandas as pd

s = pd.Series([1,2,3,4,5],index = ['a','b','c','d','e'])
```

```
print s['a']
```

1

1/1

ATTEMPTED

2

3

4

2.

Which of the following takes a dict of dicts or a dict of array-like sequences and returns a DataFrame?

DataFrame.from_items

0/1

ATTEMPTED

DataFrame.from_records

DataFrame.from_dict

All of the above

3. Write a statement to increase five marks of all students in all subjects.

1/1 ATTEMPTED

DF[:]=DF[:] +5

DF[:]=DF[:] + [5]

Both of the above

None of the above

4. How can you filter data in a Pandas DataFrame based on a condition?

1/1 ATTEMPTED

Using the filter() method

Applying the sort() function

Using the subset() function

Using boolean indexing

5.

All pandas data structures are ___ mutable but not always _____mutable.

size, value

1/1 ATTEMPTED

semantic, size

value, size

- none of the mentioned

6.

Which of the following statement will import pandas?

- import pandas as pd
- import panda as py
- import pandaspy as pd
- all of the above

1/1

ATTEMPTED

7.

Which of the following object you get after reading CSV file?

- DataFrame
- Character Vector
- Panel
- All of the mentioned

1/1

ATTEMPTED

8.

Which of the following library is similar to Pandas?

- NumPy
- RPy

1/1

ATTEMPTED

- OutPy
- None of the mentioned

9.

Point out the correct statement.

- Statsmodels provides powerful statistics, econometrics, analysis and modeling functionality that is out of panda's scope 0/1 ATTEMPTED
- Statsmodels provides powerful statistics, econometrics, analysis and modeling functionality that is out of panda's scope
 - Vintage leverages pandas objects as the underlying data container for computation
 - Bokeh is a Python interactive visualization library for small datasets
 - All of the mentioned

10. _____ is an important library used for analyzing data

1/1 ATTEMPTED

- Math
- Random
- Pandas
- None of the above

11. Which of the following is a two-dimensional data structure in Pandas?

1/1 ATTEMPTED

- Series
- DataFrame
- Panel

- All of these

12. Which function in pandas Return a tuple representing the dimensionality of the DataFrame?

1/1

ATTEMPTED

- df.info()
- df.shape
- df.dimension()
- none of the above

13. Value_counts() function in pandas is being used for counting which of the following things?

1/1

ATTEMPTED

- count the number of times a value is being repeated
- count the total number of values in a column
- count the total number of rows in a dataset
- count the number of parameter is a dataset

14. Which of the following is a data structure in pandas?

1/1

ATTEMPTED

- Series
- DataFrame
- Panel

- All of these

15.

Which of the following returns the row labels of the dataframe?

- head()
- tail()
- columns
- index

1/1

ATTEMPTED

16.

Which are pros of data visualization?

- It can be accessed quickly by a wider audience.
- It can misrepresent information
- It can be distracting
- None Of the above

1/1

ATTEMPTED

17.

Which of the following is false?

- data visualization include the ability to absorb information quickly
- Data visualization is another form of visual art
- Data visualization decrease the insights and take solver decisions

1/1

ATTEMPTED

- None Of the above

18. The best suitable chart to display Data Trends is

1/1

ATTEMPTED

- Bar Chart
- Line chart
- Pie Chart
- Histogram

19. What type of plot is suitable for visualizing the trend of a continuous variable over a continuous interval?

1/1

ATTEMPTED

- Bar plot
- Pie chart
- Scatter plot
- Line plot

20. Which type of plot is commonly used to visualize the count or frequency of categorical data?

1/1

ATTEMPTED

- Line plot
- Scatter plot
- Bar plot

- Heat map

21. How do you add a title to a Matplotlib plot?

1/1

ATTEMPTED

- plt.title("My Title")
- plt.set_title("My Title")
- plt.add_title("My Title")
- plt.title.add("My Title")

22. Which function is used to set the limits of the x-axis in a Matplotlib plot?

1/1

ATTEMPTED

- plt.xlim()
- plt.set_xlimits()
- plt.axis_limits()
- plt.x_axis_limits()

23. Which function would you use to save a Matplotlib figure to a file?

1/1

ATTEMPTED

- plt.save()
- plt.savefig()
- plt.write()

- plt.output()

24. Which function is used to create a legend in a Matplotlib plot? ATTEMPTED

- 1/1
- plt.legend()
 - plt.add_legend()
 - plt.create_legend()
 - plt.set_legend()

25. How can you format labels in Matplotlib to include special characters like Greek letters? ATTEMPTED

- 1/1
- By using the str.format() method.
 - By using raw string literals.
 - By using LaTeX syntax in the label string.
 - By using the label_format() function.

26. Which function can you use to apply a specific style to all plots in Matplotlib? ATTEMPTED

- 1/1
- plt.style.use('ggplot')
 - plt.set_style('ggplot')
 - plt.apply_style('ggplot')

plt.global_style('ggplot')

27. Which function is used to set the limits for the x-axis in Matplotlib?

1/1

ATTEMPTED

plt.set_xlim()

plt.xlim()

plt.limit_x()

plt.axis_x()

28. How can you format tick labels to show percentages on the y-axis?

1/1

ATTEMPTED

plt.yticks(format='%')

plt.gca().yaxis.set_major_formatter(PercentFormatter())

plt.y_label_format('%')

plt.tick_params(ylabel_format='%')

29. What is the primary purpose of the Seaborn library in Python?

0/1

ATTEMPTED

Data manipulation

Machine learning

Data visualization

Statistical modeling

30. Which function is used to set the color palette for plots in Seaborn?

1/1 ATTEMPTED

- sns.set_palette()
- sns.color_palette()
- sns.set_colors()
- sns.palette()

31. Which function is used to create a box plot in Seaborn? 1/1

ATTEMPTED

- sns.boxplot()
- sns.plot_box()
- sns.box_plot()
- sns.create_boxplot()

32. Which function is used to create a KDE plot in Seaborn? 1/1

ATTEMPTED

- sns.kdeplot()
- sns.kde()
- sns.create_kde()
- sns.density_plot()

33. How can you add a shaded area under the KDE curve in Seaborn?

0/1 ATTEMPTED

- sns.kdeplot(x, shade=True)

- `sns.kdeplot(x, fill=True)`
- `sns.kdeplot(x, area=True)`
- `sns.kdeplot(x, alpha=0.5)`

34. What is the primary purpose of the `sns.pairplot()` function in Seaborn?

1/1 ATTEMPTED

- To visualize the distribution of a single variable
- To create a grid of scatter plots for multiple variable pairs
- To perform linear regression analysis
- To plot time series data

35. How can you limit the pairplot to include only a subset of columns from a DataFrame?

1/1 ATTEMPTED

- `sns.pairplot(df[['col1', 'col2', 'col3']])`
- `sns.pairplot(df, columns=['col1', 'col2', 'col3'])`
- `sns.pairplot(data=df[['col1', 'col2', 'col3']])`
- All of the above

36.

Data Analysis is a process of?

- inspecting data
- cleaning data

1/1 ATTEMPTED

transforming data

All of the above

37.

Data science is the process of diverse set of data through ?

organizing data

1/1

ATTEMPTED

processing data

analyzing data

All of the above

38.

Who is a data scientist?

Statistician

1/1

ATTEMPTED

Mathematician

Software programmer

All of the above

39.

Point out the correct statement.

Raw data is original source of data

1/1

ATTEMPTED

Preprocessed data is original source of data

Raw data is the data obtained after processing steps

None of the mentioned

40. Which of the following is a powerful python library for data manipulation and analysis, particularly for working with structured data?

1/1

ATTEMPTED

Springboot

Pandas

Matplotlib

Seaborn

41.

Which of the following is performed by Data Scientist?

1/1

ATTEMPTED

Define the question

Create reproducible code

Challenge results

All of the mentioned

42.

Which of the following is the most important language for Data Science?

1/1

ATTEMPTED

Java

Ruby

R

None of the mentioned

43.

Point out the wrong statement.

- Merging concerns combining datasets on the same observations to produce a result with more variables
- Data visualization is the organization of information according to preset specifications
- Subsetting can be used to select and exclude variables and observations
- All of the mentioned

1/1

ATTEMPTED

44. Which of the following is organized and formatted data that fits into a predefined model?

1/1

ATTEMPTED

- Structured
- Unstructured
- Semi Structured
- All of the above

45. Which of the following is data that is partially structured, often with tags or elements that separate the data?

0/1

ATTEMPTED

- Structured
- Unstructured

Semi Structured

- All of the above

46. What is the primary goal of data analytics?

1/1

ATTEMPTED

- Storing data
- Extracting insights and patterns
- Creating data backups
- Encrypting data

47.

"Continuous" VS "Discrete" can be written as?

- Measured Vs Counted
- Counted Vs Measured
- Measured Vs Nominal
- None of these

1/1

ATTEMPTED

48.

A teacher notes down the weight of each student in the class. What level of measurement is being used in this case

- RATIO
- NOMINAL
- QUALITATIVE

1/1

ATTEMPTED

- NONE OF THESE

49.

_____ is the Data that is sourced by someone other than user

- Primary Data
- Quantity Data
- Secondary Data
- Tertiary Data

1/1

ATTEMPTED

50. In a line graph, what does an upward-sloping line typically indicate?

- Positive correlation
- Negative correlation
- No correlation
- Categorical data

1/1

ATTEMPTED