

Weekly Test @ 7:30 PM

Total points 36/50 ?

✓ What is the correct syntax to declare a variable in Python? * 1/1

- ☐ a) int a = 10
- ☐ b) var a = 10
- ☒ c) a = 10
- ☐ d) declare a = 10



✓ 2. What is the output of type(10.5)? * 1/1

- ☐ a) int
- ☒ b) float
- ☐ c) double
- ☐ d) decimal



✓ 3. Which data type is mutable in Python? * 1/1

- ☐ a) Tuple
- ☒ b) List
- ☐ c) String
- ☐ d) Integer



✖ 4. What will `bool([])` return? *

0/1

- ☒ a) True
- ☐ b) False
- ☐ c) None
- ☐ d) Error

✖

Correct answer

- ☒ b) False

✖ 5. What will `type({})` return in Python? *

0/1

- ☐ a) dict
- ☒ b) set
- ☐ c) list
- ☐ d) None

✖

Correct answer

- ☒ a) dict

✗ 6. What will be the output of `print(2 == 2.0)? *`

0/1

- ☐ a) True
- ☒ b) False
- ☐ c) Error
- ☐ d) None

✗

Correct answer

- ☒ a) True

✓ 7. How many times will the loop run? *
python

1/1

```
for i in range(1, 5):  
    print(i)
```

- ☐ a) 3
- ☒ b) 4
- ☐ c) 5
- ☐ d) 6
- ☐ Option 5

✓

✓ 8. Which keyword is used to exit a loop in Python? *

1/1

- ☐ a) exit
- ☐ b) continue
- ☒ c) break
- ☐ d) stop



✗ 9. What is the output of print(3 > 2 > 1)? *

0/1

- ☐ a) True
- ☒ b) False
- ☐ c) Error
- ☐ d) None



Correct answer

- ☒ a) True

✓ 10. What is the difference between continue and break in a loop? *

1/1

- ☐ a) continue stops the loop, break skips an iteration
- ☒ b) break stops the loop, continue skips an iteration
- ☐ c) Both do the same
- ☐ d) None of the above



✓ 11. What will len("Python") return? *

1/1

- ☐ a) 5
- ☒ b) 6
- ☐ c) 7
- ☐ d) Error



✓ 12. How do you import a module in Python? *

1/1

- ☒ a) import module_name
- ☐ b) include module_name
- ☐ c) load module_name
- ☐ d) require module_name



✓ 13. What is the default return type of a function that does not return anything explicitly?

*1/1

- ☒ a) NoneType
- ☐ b) int
- ☐ c) bool
- ☐ d) str



✓ 14. What is the output of `print(type(lambda x: x))`? *

1/1

- ☐ a) function
- ☐ b) lambda
- ☐ c) None
- ☒ d) <class 'function'>



✓ 15. How do you define a function in Python? *

1/1

- ☒ a) `def function_name():`
- ☐ b) `function function_name():`
- ☐ c) `define function_name():`
- ☐ d) `fn function_name():`



✓ 16. Which library is used for handling data in tabular format? *

1/1

- ☐ a) NumPy
- ☒ b) Pandas
- ☐ c) Matplotlib
- ☐ d) Seaborn



✓ 17. What function is used to read a CSV file in Pandas? *

1/1

- ☐ a) pd.load_csv()
- ☒ b) pd.read_csv()
- ☐ c) pd.open_csv()
- ☐ d) pd.readfile()



✓ 18. Which method displays the first few rows of a DataFrame? *

1/1

- ☐ a) df.start()
- ☐ b) df.first()
- ☒ c) df.head()
- ☐ d) df.show()



✗ 19. What does df.shape return? *

.../1

- ☐ a) Number of rows
- ☐ b) Number of columns
- ☒ c) Tuple (rows, columns)
- ☐ d) None



No correct answers

✓ 20. How can you check for missing values in a Pandas DataFrame? * 1/1

- ☒ a) df.isnull()
- ☐ b) df.hasnull()
- ☐ c) df.missing()
- ☐ d) df.checknull()



✓ 21. What does df.dropna() do? * 1/1

- ☒ a) Removes missing values
- ☐ b) Fills missing values
- ☐ c) Replaces missing values
- ☐ d) None of the above



✓ 22. Which method is used to fill missing values? * 1/1

- ☒ a) df.fillna()
- ☐ b) df.replace()
- ☐ c) df.nullfill()
- ☐ d) df.emptyfill()



✓ 23. What is one-hot encoding used for? *

1/1

- ☒ a) Converting categorical data into numerical format
- ☐ b) Normalizing data
- ☐ c) Handling missing values
- ☐ d) Feature scaling



✗ 24. What is PCA used for? *

0/1

- ☐ a) Handling missing values
- ☐ b) Reducing dimensionality
- ☐ c) Feature encoding
- ☒ d) Data visualization



Correct answer

- ☒ b) Reducing dimensionality

✗ 25. Which method is commonly used to detect outliers? *

0/1

- ☒ a) Mean
- ☐ b) Median
- ☐ c) Interquartile Range (IQR)
- ☐ d) Variance



Correct answer

- ☒ c) Interquartile Range (IQR)

✓ 26. What is the purpose of a Box Plot? *

1/1

- ☒ a) Identifying outliers
- ☐ b) Checking correlation
- ☐ c) Filling missing values
- ☐ d) Encoding categorical variables



✓ 27. Which library is used for data visualization in Python? *

1/1

- ☐ a) NumPy
- ☐ b) Pandas
- ☒ c) Matplotlib
- ☐ d) Sklearn



✓ 28. Which function is used to create a histogram in Matplotlib? *

1/1

- ☒ a) plt.hist()
- ☐ b) plt.bar()
- ☐ c) plt.scatter()
- ☐ d) plt.plot()



✗ 29. What argument in `plt.plot()` is used to define the color of a line? *

0/1

- ☒ a) c
- ☐ b) color
- ☐ c) col
- ☐ d) clr



Correct answer

- ☒ b) color

✓ 30. Which function in Seaborn is used to create a heatmap? *

1/1

- ☐ a) `sns.heatplot()`
- ☒ b) `sns.heatmap()`
- ☐ c) `sns.corrplot()`
- ☐ d) `sns.mapplot()`



✓ 31. Which function is used to generate a box plot in Seaborn? *

1/1

- ☒ a) `sns.boxplot()`
- ☐ b) `sns.scatterplot()`
- ☐ c) `sns.barplot()`
- ☐ d) `sns.histplot()`



✓ 32. How do you filter rows where the column age is greater than 30? * 1/1

- ☒ a) `df[df.age > 30]`
- ☐ b) `df.filter(age > 30)`
- ☐ c) `df.select(age > 30)`
- ☐ d) `df.age > 30`



✓ 33. Which function sorts a DataFrame by a specific column? * 1/1

- ☒ a) `df.sort_values()`
- ☐ b) `df.arrange()`
- ☐ c) `df.orderby()`
- ☐ d) `df.sortby()`



✓ 34. What does `df.iloc[2]` return? * 1/1

- ☒ a) Third row of the DataFrame
- ☐ b) Third column of the DataFrame
- ☐ c) First two rows of the DataFrame
- ☐ d) Last two rows of the DataFrame



✓ 35. What function is used to group data in Pandas? *

1/1

- ☒ a) df.groupby()
- ☐ b) df.aggregate()
- ☐ c) df.group()
- ☐ d) df.sortgroup()



✓ 36. Which function is used to calculate the mean of a column? *

1/1

- ☒ a) df.mean()
- ☐ b) df.average()
- ☐ c) df.aggregate()
- ☐ d) df.sum()



✓ 37. What does df.describe() return? *

1/1

- ☒ a) Summary statistics of numerical columns
- ☐ b) Column names
- ☐ c) First few rows of the DataFrame
- ☐ d) Datatypes of columns



✓ 38. What is the range of correlation values in Pandas? *

1/1

- ☐ a) -2 to 2
- ☒ b) -1 to 1
- ☐ c) 0 to 1
- ☐ d) -0.5 to 0.5



✓ 39. Which correlation value indicates a strong positive correlation? *

1/1

- ☐ a) -0.9
- ☐ b) 0.2
- ☒ c) 0.8
- ☐ d) 1.2



✓ 40. Which method in Pandas is used to check correlation? *

1/1

- ☒ a) df.corr()
- ☐ b) df.cov()
- ☐ c) df.describe()
- ☐ d) df.stats()



✗ 41. What is the purpose of label encoding? *

0/1

- ☐ a) Assigning unique numeric values to categorical variables
- ☐ b) Normalizing data
- ☐ c) Identifying missing values
- ☒ d) Reducing dimensionality

✗

Correct answer

- ☒ a) Assigning unique numeric values to categorical variables

✗ 42. Which function in Pandas is used for one-hot encoding? *

0/1

- ☐ a) pd.get_dummies()
- ☒ b) pd.onehotencode()
- ☐ c) pd.dummyencode()
- ☐ d) pd.categorical_to_num()

✗

Correct answer

- ☒ a) pd.get_dummies()

✓ 43. What is the output of print(5/0)? *

1/1

- ☐ a) 0
- ☐ b) None
- ☒ c) ZeroDivisionError
- ☐ d) SyntaxError

✓

✓ 44. Which keyword is used to handle exceptions in Python? *

1/1

- ☐ a) catch
- ☐ b) error
- ☒ c) try
- ☐ d) handle



✗ 45. How do you read a file in Python? *

0/1

- ☐ a) open(filename, 'r')
- ☒ b) read(filename)
- ☐ c) load(filename)
- ☐ d) fetch(filename)



Correct answer

- ☒ a) open(filename, 'r')

✗ 46. Which library is best for numerical computing in Python? *

0/1

- ☒ a) Pandas
- ☐ b) NumPy
- ☐ c) Seaborn
- ☐ d) Sklearn



Correct answer

- ☒ b) NumPy

✓ 47. What does `np.array([1, 2, 3])` return? *

1/1

- ☐ a) A Python list
- ☒ b) A NumPy array
- ☐ c) A Pandas DataFrame
- ☐ d) A dictionary



✗ 48. What is the primary use of Scikit-learn? *

0/1

- ☐ a) Machine learning
- ☒ b) Data visualization
- ☐ c) Data storage
- ☐ d) Web scraping



Correct answer

- ☒ a) Machine learning

✗ 49. What does `df.info()` return? *

0/1

- ☐ a) Data types and memory usage
- ☐ b) First few rows of DataFrame
- ☐ c) Number of null values
- ☒ d) Data summary statistics



Correct answer

- ☒ a) Data types and memory usage

✓ 50. What is the purpose of plt.show() in Matplotlib? *

1/1

- ☐ a) To close the plot
- ☐ b) To save the plot
- ☒ c) To display the plot
- ☐ d) To clear the plot



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