

Python Data Science Developer – MCQs

1. Which library is primarily used for numerical operations in Python?

- Pandas
- Numpy
- Matplotlib
- Seaborn

Answer: **Numpy**

2. Which function is used to create a DataFrame in Pandas?

- pd.Series()
- pd.DataFrame()
- pd.Array()
- pd.Matrix()

Answer: **pd.DataFrame()**

3. What is the primary purpose of the Seaborn library?

- Machine Learning
- Data Cleaning
- Statistical Data Visualization
- Numerical Computation

Answer: **Statistical Data Visualization**

4. Which library is built on top of Matplotlib and provides a high-level interface for drawing attractive graphics?

- Pandas
- Seaborn
- Numpy
- SciPy

Answer: **Seaborn**

5. Which module in SciKit-Learn is used for splitting a dataset into training and testing sets?

- model_selection
- datasets
- metrics
- pipeline

Answer: **model_selection**

6. Which method is used to normalize data in SciKit-Learn?

- MinMaxScaler
- StandardScaler
- Normalizer
- All of the above

Answer: **All of the above**

7. Which TensorFlow function is used to define a model using the Keras Sequential API?

- Sequential()
- Model()
- Layer()
- Functional()

Answer: **Sequential()**

8. In TensorFlow/Keras, what does the 'Dense' layer represent?

- Convolutional Layer
- Fully Connected Layer

- Dropout Layer
- Recurrent Layer

Answer: **Fully Connected Layer**

9. Which function is used in Pandas to handle missing data?

- dropna()
- fillna()
- isnull()
- All of the above

Answer: **All of the above**

10. Which Matplotlib function is used to display a plot?

- plt.show()
- plt.display()
- plt.plot()
- plt.image()

Answer: **plt.show()**

11. Which library is primarily used for numerical operations in Python?

- Pandas
- Numpy
- Matplotlib
- Seaborn

Answer: **Numpy**

12. Which module in SciKit-Learn is used for splitting a dataset into training and testing sets?

- model_selection
- datasets
- metrics
- pipeline

Answer: **model_selection**

13. Which library is primarily used for numerical operations in Python?

- Pandas
- Numpy
- Matplotlib
- Seaborn

Answer: **Numpy**

14. Which function is used in Pandas to handle missing data?

- dropna()
- fillna()
- isnull()
- All of the above

Answer: **All of the above**

15. Which library is built on top of Matplotlib and provides a high-level interface for drawing attractive graphics?

- Pandas
- Seaborn
- Numpy
- SciPy

Answer: **Seaborn**

16. Which module in SciKit-Learn is used for splitting a dataset into training and testing sets?

- model_selection
- datasets

- metrics
- pipeline

Answer: **model_selection**

17. Which method is used to normalize data in SciKit-Learn?

- MinMaxScaler
- StandardScaler
- Normalizer
- All of the above

Answer: **All of the above**

18. In TensorFlow/Keras, what does the 'Dense' layer represent?

- Convolutional Layer
- Fully Connected Layer
- Dropout Layer
- Recurrent Layer

Answer: **Fully Connected Layer**

19. Which function is used to create a DataFrame in Pandas?

- pd.Series()
- pd.DataFrame()
- pd.Array()
- pd.Matrix()

Answer: **pd.DataFrame()**

20. Which library is primarily used for numerical operations in Python?

- Pandas
- Numpy
- Matplotlib
- Seaborn

Answer: **Numpy**

21. Which Matplotlib function is used to display a plot?

- plt.show()
- plt.display()
- plt.plot()
- plt.image()

Answer: **plt.show()**

22. Which function is used to create a DataFrame in Pandas?

- pd.Series()
- pd.DataFrame()
- pd.Array()
- pd.Matrix()

Answer: **pd.DataFrame()**

23. Which method is used to normalize data in SciKit-Learn?

- MinMaxScaler
- StandardScaler
- Normalizer
- All of the above

Answer: **All of the above**

24. Which function is used to create a DataFrame in Pandas?

- pd.Series()
- pd.DataFrame()
- pd.Array()

- `pd.Matrix()`

Answer: **`pd.DataFrame()`**

25. What is the primary purpose of the Seaborn library?

- Machine Learning
- Data Cleaning
- Statistical Data Visualization
- Numerical Computation

Answer: **Statistical Data Visualization**

26. Which function is used to create a DataFrame in Pandas?

- `pd.Series()`
- `pd.DataFrame()`
- `pd.Array()`
- `pd.Matrix()`

Answer: **`pd.DataFrame()`**

27. Which library is built on top of Matplotlib and provides a high-level interface for drawing attractive graphics?

- Pandas
- Seaborn
- Numpy
- SciPy

Answer: **Seaborn**

28. In TensorFlow/Keras, what does the 'Dense' layer represent?

- Convolutional Layer
- Fully Connected Layer
- Dropout Layer
- Recurrent Layer

Answer: **Fully Connected Layer**

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

- Machine Learning
- Data Cleaning
- Statistical Data Visualization
- Numerical Computation

Answer: **Statistical Data Visualization**

30. Which function is used in Pandas to handle missing data?

- `dropna()`
- `fillna()`
- `isnull()`
- All of the above

Answer: **All of the above**

31. Which library is primarily used for numerical operations in Python?

- Pandas
- Numpy
- Matplotlib
- Seaborn

Answer: **Numpy**

32. Which function is used in Pandas to handle missing data?

- `dropna()`
- `fillna()`
- `isnull()`

- All of the above

Answer: **All of the above**

33. What is the primary purpose of the Seaborn library?

- Machine Learning
- Data Cleaning
- Statistical Data Visualization
- Numerical Computation

Answer: **Statistical Data Visualization**

34. Which module in SciKit-Learn is used for splitting a dataset into training and testing sets?

- model_selection
- datasets
- metrics
- pipeline

Answer: **model_selection**

35. Which library is built on top of Matplotlib and provides a high-level interface for drawing attractive graphics?

- Pandas
- Seaborn
- Numpy
- SciPy

Answer: **Seaborn**

36. Which module in SciKit-Learn is used for splitting a dataset into training and testing sets?

- model_selection
- datasets
- metrics
- pipeline

Answer: **model_selection**

37. Which module in SciKit-Learn is used for splitting a dataset into training and testing sets?

- model_selection
- datasets
- metrics
- pipeline

Answer: **model_selection**

38. Which module in SciKit-Learn is used for splitting a dataset into training and testing sets?

- model_selection
- datasets
- metrics
- pipeline

Answer: **model_selection**

39. Which method is used to normalize data in SciKit-Learn?

- MinMaxScaler
- StandardScaler
- Normalizer
- All of the above

Answer: **All of the above**

40. In TensorFlow/Keras, what does the 'Dense' layer represent?

- Convolutional Layer
- Fully Connected Layer
- Dropout Layer

- Recurrent Layer

Answer: **Fully Connected Layer**

41. In TensorFlow/Keras, what does the 'Dense' layer represent?

- Convolutional Layer
- Fully Connected Layer
- Dropout Layer
- Recurrent Layer

Answer: **Fully Connected Layer**

42. Which method is used to normalize data in SciKit-Learn?

- MinMaxScaler
- StandardScaler
- Normalizer
- All of the above

Answer: **All of the above**

43. Which function is used to create a DataFrame in Pandas?

- pd.Series()
- pd.DataFrame()
- pd.Array()
- pd.Matrix()

Answer: **pd.DataFrame()**

44. What is the primary purpose of the Seaborn library?

- Machine Learning
- Data Cleaning
- Statistical Data Visualization
- Numerical Computation

Answer: **Statistical Data Visualization**

45. Which module in SciKit-Learn is used for splitting a dataset into training and testing sets?

- model_selection
- datasets
- metrics
- pipeline

Answer: **model_selection**

46. Which method is used to normalize data in SciKit-Learn?

- MinMaxScaler
- StandardScaler
- Normalizer
- All of the above

Answer: **All of the above**

47. Which function is used in Pandas to handle missing data?

- dropna()
- fillna()
- isnull()
- All of the above

Answer: **All of the above**

48. Which TensorFlow function is used to define a model using the Keras Sequential API?

- Sequential()
- Model()
- Layer()
- Functional()

Answer: **Sequential()**

49. In TensorFlow/Keras, what does the 'Dense' layer represent?

- Convolutional Layer
- Fully Connected Layer
- Dropout Layer
- Recurrent Layer

Answer: **Fully Connected Layer**

50. Which library is primarily used for numerical operations in Python?

- Pandas
- Numpy
- Matplotlib
- Seaborn

Answer: **Numpy**