

SSR DEGREE AND PG COLLEGE(A)

Department of Data Science Year-II Sem-III Question Bank

MATCH THE FOLLOWING:

1. Which of the following is a valid variable name in Python?

- A) 2name
- B) my_name
- C) class
- D) my-name

Answer: B) my_name

2. Which function is used to display output in Python?

- A) input()
- B) print()
- C) display()
- D) show()

Answer: B) print()

3. Which keyword is used to define a function in Python?

- A) function
- B) define
- C) def
- D) func

Answer: C) def

4. Which of the following is a mutable data type?

- A) Tuple
- B) String

- C) List
- D) Integer

Answer: C) List

5. Which operator is used for floor division?

- A) /
- B) //
- C) %
- D) **

Answer: B) //

6. Which library is widely used for data analysis in Python?

- A) NumPy
- B) Pandas
- C) OpenCV
- D) Flask

Answer: B) Pandas

7. Which function is used to read a CSV file?

- A) read_csv()
- B) open_csv()
- C) load_csv()
- D) csv_read()

Answer: A) read_csv()

8. Which attribute gives the dimensions of a DataFrame?

- A) size
- B) length
- C) shape
- D) count

Answer: C) shape

9. Which method returns the first five rows of a DataFrame?

- A) top()
- B) head()
- C) first()
- D) show()

Answer: B) head()

10. ETL stands for:

- A) Extract, Transform, Load
- B) Export, Transfer, Load
- C) Extract, Test, Learn
- D) Execute, Transform, Link

Answer: A) Extract, Transform, Load

FILL IN THE BLACKS:

11. Python is a _____ programming language.

Answer: High-level

12. The file extension of a Python program is _____.

Answer: .py

13. The _____ function is used to display output on the screen.

Answer: print()

14. The _____ function is used to accept input from the user.

Answer: input()

15. A variable is used to store _____.

Answer: data (or values)

16. _____ is a Python library used for data analysis and manipulation.

Answer: Pandas

17. The _____ library is mainly used for numerical computations.

Answer: NumPy

18. The Pandas function used to read a CSV file is _____.

Answer: read_csv()

19. The _____ method displays the first five rows of a DataFrame.

Answer: head()

20. The _____ attribute returns the number of rows and columns in a DataFrame.

Answer: `shape`

ANSWER THE FOLLOWING QUESTION:

- Explain the features and applications of Python.
- Describe Python data types with suitable examples.
- Explain Python operators with examples.
- What is Data Engineering? Explain its importance and applications.
- Explain the role of Python in Data Engineering.