

Q.22 Write some essential features of Python. (CO1)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 What is inheritance? Explain with the help of an example. (CO2)

Q.24 What are the essential features provided by Python Pandas? (CO3)

Q.25 Explain stages in a Data science Project. (CO4)

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3rd Sem / Artificial Intelligence & Machine Learning

Subject : Data Science Using Python

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which file type stores data as 0s and 1s? (CO2)

- a) Text file b) JSON file
- c) Binary file d) CSV file

Q.2 Which of the following is the correct extension of the Python file? (CO1)

- a) .python b) .py
- c) .pl d) .p

Q.3 Which NumPy function is used for transposing an array? (CO3)

- a) transpose () b) swap ()
- c) reverse () d) rotate ()

Q.4 Which operator is used for arithmetic operations between DataFrames? (CO3)

- a) % b) +
- c) \$ d) //

Q.5 What is the primary goal of Data Science? (CO4)

- a) Building websites
- b) Storing large data
- c) Extracting knowledge and insights from data
- d) Installing software

Q.6 What is primary data structure in Pandas used for storing and working with tabular data? (CO3)

- a) Series b) Array
- c) Dataframe d) Dictionary

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 DataFrames in Pandas can only store numerical data. (T/F) (CO3)

Q.8 The method used to read a text file line by line in Python is _____ . (CO2)

Q.9 What is used to label rows and columns in Pandas? (CO3)

Q.10 What is the first step in a data science project? (CO4)

Q.11 Name the Pandas method which is used to combine datasets? (CO3)

Q.12 Python uses a compiler to execute the code.(T/F) (CO1)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What are sequences in Python? (CO3)

Q.14 What is the use of Panda in data science? (CO4)

Q.15 What are mathematical and statistical functions in NumPy? (CO3)

Q.16 What is the difference between a Series and a DataFrame in Pandas? (CO3)

Q.17 What do you mean by class and object in Python? (CO2)

Q.18 What is the difference between lists and tuples in Python? (CO2)

Q.19 What are some data security issues in Data Science? (CO4)

Q.20 What is an IDE and why it is important? (CO1)

Q.21 What is the use of ternary operator in python? (CO2)