

Q.21 How can the ternary operators be used in Python?
(CO1)

Q.22 How does break, continue and pass work? (CO2)

SECTION-D

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

Q.23 What are the features of Python? (CO1)

Q.24 Write the difference between deep and shallow copy.
(CO2)

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 What library in python is commonly used for data manipulation and analysis (CO4)

- a) Panda
- b) Javascript
- c) Numpy
- d) Matplotlib

Q.2 Which module provides functions for working with dates and times? (CO2)

- a) Random
- b) Math
- c) Numpy
- d) datetime

Q.3 Which of the following function returns the maximum element of the tuple? (CO1)

- a) max(tuple)
- b) tuple(max)
- c) maximum()
- d) none of the above

(40)

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- Q.4 Is Python code compiled or interpreted? (CO1)
a) Python code is neither compiled nor interpreted
b) Python code is compiled
c) Python code is both compiled and interpreted
d) Python code is interpreted
- Q.5 Which of the following approach should be used if you can't fix the variable? (CO3)
a) Randomize it b) Generalize it
c) non stratify it d) Dictionary
- Q.6 In Python, what is the main purpose of the "Groupby" operation in Pandas? (CO3)
a) Sorting data
b) Filtering data
c) Reshaping data
d) Grouping and aggregating data

SECTION-B

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

- Q.7 A column is a _____ representation of data. (CO3)
- Q.8 Which character is used for searching at the end of string? (CO1)

- Q.9 How many types we can define scope of a variable (CO1)
- Q.10 Which command is used to delete the list elements? (CO1)
- Q.11 Data Frame is a container for data Frame objects (T/F) (CO4)
- Q.12 Which character is used to give multiline comments in Python? (CO1)

SECTION-C

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

- Q.13 What is the difference between local and global variables in Python? (CO2)
- Q.14 What do you mean by dictionary in Python. Explain with an example. (CO1)
- Q.15 How do you access the columns in data frame? (CO3)
- Q.16 What is type conversion in Python? (CO2)
- Q.17 Give a brief description of time series in Panda? (CO3)
- Q.18 Write the advantages of Python? (CO1)
- Q.19 What is the use of Panda in data science? (CO4)
- Q.20 What is object and how it is created in python? (CO1)