## SECTION-D

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

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

Q.24 Write the applications of Data science. (CO4)

Q.25 How files are read and write in python. (CO2)

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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 Pandas is an open-source _____Library(CO1)
a) Ruby b) Javascript
c) Java d) Python

Q.2 Which of the following is the correct extension of the python file? (CO2)
a) .Python b) .Pl
c) .Py d) .P

Q.3 Which of the following character is used to give single -line comments in python? (CO1)
a) ‖ b) #
c) ! d) /*

Q.4 Pandas key data structure is called? (CO4)
a) Keyframe b) Dataframe
c) Statistics d) Econometrics

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Q.5 Which of the following is not a core data type in python programming? (CO2)

a) Tuples       b) Lists

c) class       d) Dictionary

Q.6 Which of the following is a python tuple? (CO2)

a) [1,2,3]       b) (1,2,3)

c) {1,2,3}       d) {}

## SECTION-B

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

Q.7 Axis 1, in panel represent _____. (CO3)

Q.8 Which keyword is used for function in python language? (CO2)

Q.9 Raw data should be processed only one time. True/False. (CO4)

Q.10 Which statement is used to import pandas? (CO3)

Q.11 A data frame is an unstructured representation of data (T/F). (CO4)

Q.12 Is dictionary mutable ? (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 list and tuples in python? (CO1)

Q.14 Describe numeric data types in ptyhon. (CO2)

Q.15 How can you comments in python program? (CO1)

Q.16 Write the syntax of if else statement. (CO2)

Q.17 What is scope of variable? Explain. (CO2)

Q.18 What are the benefits of using python ? (CO1)

Q.19 What is the role of indentation in python? (CO1)

Q.20 What is object and how it is created in python?(CO2)

Q.21 What is the difference between series and data frames in pandas? (CO4)

Q.22 What are the features of an IDE? (CO2)