

FACULTY OF SCIENCE
B. Sc III SEMESTER (CBCS R - 19) EXAMINATIONS DEC 2024
DATA SCIENCE – III
DATA ENGINEERING WITH PYTHON

TIME: 3 HRS]

[MAX. MARKS: 80

SECTION - A (8 X 4 = 32 Marks)

- 1. Answer any EIGHT questions
- a Explain types of files in Python
- b What are pickle modules? What is the use of it?
- c What is serializing JSON
- d Describe the methods used for processing HTML files.
- e Write about processing in NLP
- f Write about text processing procedures
- g Explain NumPy array Mathematical functions with examples.
- h What is Relational Database? Write the steps to set up a MySQL Database.
- i Explain reshaping of NumPy arrays attributes
- j Describe Taming Pandas file
- k Explain the techniques for handling missing data in Pandas Data frames.
- l Write about reshaping of data in Pandas

SECTION - B (4 X 12 = 48 Marks)

- 2. Answer ALL questions
 - a Explain Report Structures with suitable examples.
OR
 - b Elaborate on the uses of JSON and XML files in Python programming. How are they different?
 - 3. a Explain about processing texts in Natural languages.
OR
 - b Elaborate on named groups and Glob module in Python regular expressions.
 - 4. a Explain the slicing and Indexing operation in NumPy with suitable Example
OR
 - b How to use MySQL data base for command Line
 - 5. a Explain applications of Pyplot module with the help of suitable Python codes.
OR
 - b Explain Pandas Data structure giving suitable example
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