Paper Code – PCC 204
Course: **Data Engineering With Python**

## Important questions

1. What are IDLE usability features? Explain about keywords used in python.
2. Explain in detail about dictionaries in python.
3. Discuss about immutable constraints and frozen sets.
4. Distinguish between local and global variables with examples.
5. Write the history of python
6. What are the different loop control statements available in python? Explain with suitable examples.
7. Explain list slicing and list Mutability.
8. Explain in detail about tuple in python
9. Create two sets of integers and compute their intersection and union by using & and | operator expressions.
10. What are operators in python? With examples
11. What is lambda function? Write the characteristics of lambda function?
12. Explain the identifiers, keywords, statements, expressions and variables in python programming language with examples.
13. IIustrate * args and *kwargs parameters in python programming language with an example
14. Explain different methods available for manipulating the CSV file.
15. Explain the need for pickle module. Write python program to save dictionary in python pickle.
16. Explain the use of Join() and split() string methods? With examples. Describe why strings are immutable with an example.
17. Explain data acquisition pipe line in detail.
18. How to create XML file in python with an example.
19. Explain processing text in Natural language.
20. Describe Regular expression methods.
21. Discuss in detail the functions available in python to implement Regular Expression.
22. How to use MY SQL database for command line.
23. Describe operations in pandas data structures.
24. Define pyplot? Explain the plotting with pandas.
25. What are files? Write the types of files. Explain different file methods to read and write data.
26.  Explain with example how to work with text data using JSON in python?
27. How to process HTML files in python? Explain

28. Explain named groups and Glob module in python regular expressions.
29. Describe basic Arithmetic operations and mathematical functions on Numpy Arrays.
30. Describe Taming pandas file I/O.
31. Explain Report structure with suitable examples.
32. Elaborate on the use of JSON and XML files in python programming. How are they different?
33. Explain pandas data structures giving suitable examples.
34. Explain applications of pyplot module with the help of suitable python codes.
35. Explain the important principles of Data Analysis.
36. How to create collection and inserting documents in Mongo DB explain?
37. How are Data Frames related to series? Explain
38. What is matplotlib module? What are the methods available in it to draw charts?
39.  What is Data Frame? Write the procedure of creating a Data Frame from Dictionary and list with suitable example codes?
40. Discuss the various operations performed on Data Frame with suitable example code.
41. Numpy Array creation and explain in detail with example.
42. Reshaping of data in pandas.
43. Difference between Missing Data and combining data.
44. How to transform data in pandas.
45. Write about mastering establishment?
46. Explain the basic data types available in python with examples.
47. Discuss format specifies and escape sequence with examples?
48. OS path modules.