

Reg. No.:



Name:

University of Kerala

U8853

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

COMPUTER SCIENCE

UK2DSCCSC106 - Python for Data Analytics

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark
Each.Answer all questions

Qn No.	Question	CL	CO
1	Identify the function used to access last rows from a file.	RE	2
2	The unction is used to delete rows and columns from a dataset) drop() b) remove(c) del() d) delete()	RE	3
3	Python is not a case sensitive language Options : A)True B)False C)May be D)None of these	UN	1
4	Discuss the functions used to handle missing values in python	UN	3
5	State the libraries used to create graphs.	UN	4
6	Identify whether the below statement is True or False."Lists in Python are mutable, whereas tuples are immutable".	UN	1

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Create and Explain the utility of an area plot considering an example of your choice ?	UN	3
8	Explain Categorical variable.	UN	4
9	Write a code for creation of line chart	AP	4
10	Discuss how differ append() and insert() functions in lists	AP	2

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) Illustrate one dimensional array in python. OR B) Illustrate the concept of themes and styles in Seaborn	AP	2, 4
12	A) Create a module named basicmaths having four functions named add, sub, mult, and div. All these functions take two arguments as numbers. Import the module in the main program and call the respecting function depending on the user requirement and return the compound result. OR B) Compare arithmetic, relational, logical, and bitwise operators in Python with examples.	AN	2, 1
13	A) Write the difference between using break and continue to control the flow of a loop. Explain with example OR B)	EV	1, 3

Qn No.	Question	CL	CO
	Illustrate data extraction in python and what is the role of relational and logical operators in data extraction		
14	A) Explain the importance of using both Matplotlib and Seaborn in data visualization. Provide examples OR B) i) Describe Exception Handling. ii) Develop a script to handle division by zero using exception handling.	CR	4, 1