

Reg. No.:



Name:

University of Kerala

U9055

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	State the function used in seaborn to create a violin plot.	RE	1
2	----- terminates loop statement and transfers execution to statement immediately following loop. Options : A)Break B) for C)continue D)while	RE	1
3	Explain the use of pass statement.	UN	1
4	Identify the function used to count total missing values	UN	3
5	Describe violin plot	UN	4
6	Discuss utility of pop() in list.	UN	2

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	Distinguish between append() and insert() functions used in lists.	UN	2
8	Explain the use of relational operators in Python with example	UN	1
9	Discover the difference between '=' and '==' operator in Python	AP	1
10	Explain how can we do sort operation on dataframe using Pandas library	AP	3

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 if.. elif... else statement and draw the flowchart. OR B) Explain what is 1D array in python.Give an example for its implementation ?	AP	1, 3
12	A) Examine the different types of visualizations that can be created using Seaborn, including scatterplots, boxplots and violin plots OR B) Compare the functions isnan(),dropna(),fillna() and replace() in Pandas for handling missing values in a DataFrame.	AN	4, 3
13	A) Differentiate among append(), insert() and extend() used for array.	EV	2, 3

Qn No.	Question	CL	CO
	OR B) Illustrate the functions used to handle missing values in python.		
14	A) Create a Python program to compute the mean, median, of a dataset using NumPy. OR B) Explain Sort functions in dataframe with suitable example.	CR	2, 3