PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(First Semester)

Branch – INFORMATION TECHNOLOY

DATA ANALYSIS AND VISUALIZATION USING PYTHON

Time: Three Hours	Maximum: 50 Marks
SECTION-A Answer ALL ALL questions carry	questions
Which type of Programming does Pyt (i) object-oriented programming (iii) structured programming	,
Which of the following is the correct of (i) .python (ii) .py (iv)	.pl
	with identifiers? yes none of the mentioned
(i) Indentation (ii)	f code in Python language. Brackets All of the mentioned
(i) 4 (ii)	ing Python expression? round(4.576) 5 4.5
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)	
6 a Explain about functions in python. OR b Write a python program to convert	temperature from farenheit to Celsius.
7 a Explain about name scope in pytho OR b Explain about strings in python.	
 8 a Explain about persistent variables. OR b How to open a file in python? Expl 	ain.
 9 a Explain the process of transposing of OR b Describe about Filtration. 	a data frame.
	Cont

10 a How to merge data? Explain.

OR

b Summarize about Pie chart.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Discuss about conditional statements.

OR

- b Describe in detail about software development process.
- 12 a Explain about List in python.

OR

- b Discuss about testing functions.
- 13 a Describe about dictionaries with example.

OR

- b Elucidate in detail about file operations.
- 14 a Illustrate the use of data frames in python.

OF

- b Discuss in detail about Data grouping.
- 15 a Summarize the process of reading and cleansing CSV data.

OR

b Compare Line plot and Bar plot.

Z-Z-Z

END