	Computer Science With Artificial Intelligence	python	?
	PYTHON FOR DATASCIENCE	(a) li	st (array) (b) list. array
	(For those who joined in July 2022 onwards)	(c) a	rray.list (d) none
-Time	e: Three hours Maximum: 75 marks		methods or functions must he same name and same signatures.
	PART A — $(10 \times 1 = 10 \text{ marks})$		Method overloading
	Answer ALL the questions		
	Choose the correct answer:		Method overriding
1.	Which of the following is the correct extension of the python file?		nheritance Abstraction
	(a) .py (b) .python (c) .p (d) None		of the following option is note a core
2.	(c) .p (d) None Which of the following is not a keyword in python		pe in the python language?
	language?		Dictionary (b) Lists
	(a) val (b) raise	(c) (Class (d) All the above
	(c) try (d) with	•	Page 2 Code No.: 5732
7.	Which one of the widget is not in Python?		PART B — (5 × 5 = 25 marks)
	(a) Button (b) Radio Button		ALL questions, choosing either (a) or (b).
			answer should not exceed 250 words.
•	(c) Text Area (d) label	11. (a)	List out the features of python language.
8.	Which of the following argument we need to pass in reshape () function?		Or Find out the area and perimeter of a circle with the user Input.
	(a) Array		Write short note on Data Frames.
	(b) Shape		Or
	(c) Only Array	200	Comment on: "Selection and Filtering in
	(d) Both array and shape		Series".
9.	Function name for cumulative sum of non-NA values	13. (a)	What are python dictionaries? Or
	(a) Cumprod (b) Cumsum	Control of the Contro	Give a brief note on Inheritance in python programming language.
10.	(c) Both (a) and (b) (d) None Which one is not a Data Visualization library?	The state of the s	Briefly explain reshaping with suitable example.
			Or
	(a) Matplot lib (b) Pandas (c) Seaborn (d) Ploter	76.27% (7.50) (7.50)	What are the ways to create Tables in
			python?
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			[P.T.O.]

3.

(a)

(b)

(c)

(d)

Reg. No. :

M.Sc. (CBCS) DEGREE EXAMINATION,

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First Semester

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(6 pages)

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PANDAS stands for -

Panel Data

Panel Data Analysis

Panel Data Analyst

Panel Dashboard

How can we convert the Numpy array to the list in

15. (a) What is cross Tabulation?

Or

(b) Write a python code to create an Employee table with suitable columns and insert two records.

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write down the syntax and usage of 'for' loop and 'while' loop with suitable example.

Or

- (b) What operators does python support? Explain with suitable example.
- 17. (a) Discuss in detail about Arithmetic operations or Data frames and Series.

Or

(b) Explain any five statistical functions in Numpy with suitable example.

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 (a) Write down any five Dictionary methods with suitable examples.

Or

- (b) "Object oriented programming (OOP) in python" Discuss.
- (a) Discus in detail about Data Transformation in python Pandas.

Or

- (b) Illustrate string manipulation with suitable example for each one of them.
- 20. (a) Describe the concept of data aggregation and group operations available in python.

Or

(b) What are the different types of Data Visualization methods available in python? Explain.

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