

Fifth Semester Internal Examination, September 2026**SEC Course in Physics****Data Analysis in Physical Sciences****PHY6FS113**

Time: 1 Hr	Max Marks: 30	Name:	
Class:		Marks Scored	

Section A Total Marks	Section B	Section C	Marks Scored
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Section A

(Each question carries 2 marks, Max marks for section – 8)

1. What is a dataframe?
2. Explain the meaning of the functions 'mean', 'abs' and 'std' in the dataframe.
3. Explain the term quantiles.
4. What is meant by 'do-while' loop in Python?
5. How is a dictionary different from a list?

Section B

(Each question carries 6 marks, Max marks for section – 12)

6. Write the code to create a Pandas dataframe. Print this dataframe and find the dimensions and axes of this dataframe.
7. Explain the different datatypes in Python.
8. Distinguish between 'for' and 'while' loops in Python.

Section C

(Answer any one question, Each question carries 10 marks)

9. Explain what is sorting of a dataframe. Write the code to create a dataframe and sort the dataframe in ascending and descending order.
10. Use 'if-elif-else' commands to find the largest number out of three inputs

*****Tie this question paper in front of the answer sheet*****