PHYSICS PYTHON ASSIGNMENT

All questions should be submitted in a single Jupyter notebook (.ipynb file). You are encouraged to use online resources (e.g. Python documentation) when answering the questions. You should work independently.

TOTAL MARKS FOR ASSIGNMENT: [100 marks]

| | CODE QUALITY | | |
|---|---|---|--|
| • | Import libraries and define simulation constants at the top of the Note | ort libraries and define simulation constants at the top of the Notebook. | |
| | | [2 marks] | |
| • | Use Markdown cells to write headings for each question part. | [2 marks] | |
| • | Use print (packagenameversion) to print the version numerous each package you import. | nber for | |
| | | [2 marks] | |
| • | Use sensible and expressive variable and function names. | [2 marks] | |
| • | Split code into logical blocks using code formatting (for example, brackets) an whitespace. | | |
| | wintospace. | [2 marks] | |
| • | Print numerical answers to the screen and display plots at a reasona | ıble size. | |
| | | [2 marks] | |
| • | Write in-line code comments (starting with a #) that describe the interpolar code and any potential problems. You can also use Markdown of more lengthy comments. | | |
| | | [4 marks] | |

 Avoid code duplication where possible. Use appropriate functions and datatypes, including those from external libraries. Use control structures appropriately.

[4 marks]

TOTAL MARKS FOR CODE QUALITY: [20 marks]