## Instructions

- *You have 3 hours to complete the exam.*
- *You **may** use **four** pages of notes (front and back).*
- *You **may not** use the internet, ChatGPT, GitHub Copilot, or another LLM.*
- *You **may not** look at another persons exam or ask them for help, but you may of course ask clarifying questions to Dr. Tree or the TA.*
- *You need a computer to complete this exam, but you may not use a handheld calculator.*
- *You may use scratch paper, but it will not be accepted for credit.*
- *Certain questions require that you submit an Excel workbook (\*.xlsx) and/or a Python (\*.py) file.*
  - *You must submit a **single** Excel file and a **single** Python file.*
  - *If you do not submit these on time through Learning Suite, you may submit your files to tree.doug@byu.edu within five minutes of when your exam closes. You will be penalized 5 points for submitting your files this way.*
  - ***Do not use Jupyter** for this exam.*
- ***Save often! Make sure that you turn in the correct files!***
  - *If you turn in the wrong files we will accept corrections if you submit them to Dr. Tree (tree.doug@byu.edu) with a timestamp showing that you completed them within five minutes of your exam closing. You will be penalized 5 points for doing this.*
  - *If you cannot show a timestamp within the exam time, you will not get credit for these problems.*

## Contents

- *42 Qualitative Questions (80 pts)*
- *12 Quantitative Questions (120 pts)*
- *2 File Submission Questions (0.5 pt extra credit each, +1 pt)*