

ELEC 341 – 2021-201

Final Exam

50 Marks

Instructions

Each **BULLET POINT** is a **DELIVERABLE** that contains ...

- Variable name (Physical Units) <Data Type>

Hints and suggestions are shown in italics.

- They are **OPTIONAL** steps you can do to check your work.
- They are **NOT GRADED**.

Respect **PHYSICAL UNITS**.

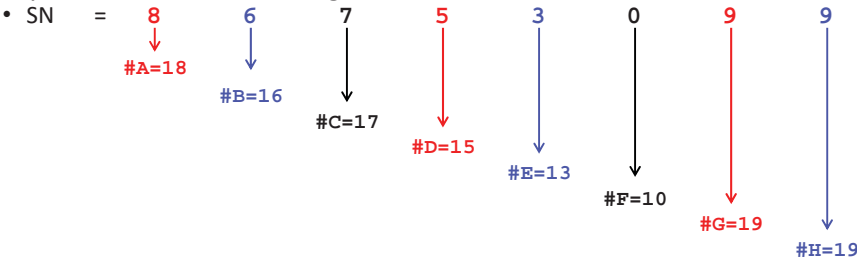
- It is not possible to specify physical units in a MAT file.
- You must use the ones indicated in the **BULLET POINT**.
- Percentages have a maximum value of **100**.
 - 0.5 = 0.5% (**not 50%**)
 - 50 = 50%

Parameter Values

Parameter Values are computed using variables #A → #H.
Each variable is calculated from the sequential digits of your student number.
Ten is added to each digit (e.g. 0 → 10).

Example:

Tommy Tutone has the following student number



Solutions

Solutions are **ANSWER-ONLY**

- No marks for incorrect answers

Output (MAT) file

- If solution script has ...
 - **TFunc** = zpk([-1 -2], [-3 -4+j*5 -4-j*5], 6.7); % compute open-loop transfer function
- Edit “**xfin.m**” to include ...
 - Q1_tf = **TFunc**; % assign solution to designated variable name
- run “**xfin.m**” to create “<Stud Num>-fin.MAT” (Student Number – Identifier . Extension)
- Example: 86753099-fin.MAT
 - First 8 digits MUST be student number
 - Identifier can be anything you want (deleted after you hand it in)
 - Extension must be .MAT and readable using “load()” function