EML2322L Quiz 1 (1/20/21)

Answer the following questions using **any** course materials (notes, hw, etc.) but do not work with other students. If you mark a T/F question / statement FALSE, correct the underlined word to make it TRUE.

Name: _____

Lab Period: **T5-6 / T7-8 / T9-10**
(circle one) **W2-3 / W4-5 / W7-8 / W9-10**
R2-3 / R4-5 / R7-8 / R9-10

Which of the following is not a common component of an engine lathe:

A. headstock
B. cross slide
C. tool post
D. tailstock
E. ram

What rotates on a lathe:

A. the cutting tool
B. the chuck
C. the material / workpiece
D. answers B & C
E. none of the above

Turning is a metal cutting process used mainly for the generation of <u>rectangular</u> surfaces.

TRUE / FALSE

Which of the following is not a common workholding method on a lathe:

A. holding in a chuck
B. holding between centers
C. holding in the tailstock
D. holding in a collet

When operating a lathe the tool bit should typically be positioned:

A. above center to obtain better surface finish
B. below center to enhance chip evacuation
C. directly on the spindle centerline
D. none of the above

Milling is a metal cutting process used primarily for the generation of <u>cylindrical</u> surfaces.

TRUE / FALSE

What rotates on a milling machine:

A. the material / workpiece
B. the cutting tool
C. the spindle
D. answers B & C
E. none of the above

Common types of milling machines include:

A. knee and column mills
B. bed mills
C. turret mills
D. drill mills
E. A & B above

Which of the following is the most common workholding method on a milling machine:

A. holding in a chuck
B. holding between centers
C. holding in a vise
D. holding in a collet
E. holding in your hands

Explain the difference between relay and proportional control:

_____
_____
_____
_____

List five benefits to using 80/20:

1. _____
2. _____
3. _____
4. _____
5. _____

List three things you found helpful or interesting with last week's background research, or homework: