Answer the following questions based on the information presented in class. You can use your notes but do not speak with others.

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. B & C above
E. none of the above

Turning is a metal cutting process used mainly for the generation of rectangular 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
E. holding in your hands

When operating a lathe the tool bit should typically be positioned:
A. above center to obtain better surface finish
B. below center to optimize chip evacuation
C. directly on the spindle centerline
D. none of the above

List the three most important items you must bring every week to your laboratory session AND to TA office hours:
1. ____________________________________________
2. ____________________________________________
3. ____________________________________________

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

What rotates on a milling machine:
A. the material/workpiece
B. the cutting tool
C. the spindle
D. B & C above
E. none of the above

The common types of milling machines are:
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 mill:
A. holding in a chuck
B. holding between centers
C. holding in a vise
D. holding in a collet
E. holding in your hands

Milling is a metal cutting process used primarily for the generation of cylindrical surfaces.
TRUE / FALSE

Explain the difference between relay and proportional control:
__________________________________________
__________________________________________
__________________________________________
__________________________________________

List five benefits to using 80/20:
1. ____________________________________________
2. ____________________________________________
3. ____________________________________________
4. ____________________________________________
5. ____________________________________________