

Student Name:

ID:

Section:

Experiment (3): Forging

- Fill the blanks of the following table:

	Before deformation (mm)			After deformation(mm)		
Height						
Diameter						
h_{avg}						
D_{avg}						
Reduction in height %						
Force (measured)						

- Sketch the grid pattern of the specimen.

Before the test	After the test

- Calculate the flow stress at end of stroke of this specimen at the given temperature assuming $\mu = 0.2$? (*use both equations and show detailed answer*)

- What is sticking? Why it happened? How can we reduce sticking?

- Which one from the following parts is produced by forging process (similar to our specimen in the lab)? Explain your answer.

