Student Name: __________________________

Engineering Design Process (ICP.1.1, 1.3, 1.4, 2.1, 2.2)

1. Fill in the blank: A tolerance is an acceptable amount of “wiggle-room” for a product’s _________
   that allows for certain _________ in size.

2. The acceptable “wiggle-room”—the tolerance—maintains a product’s ability to _________________
   even with variation.

3. What are the 5 phases of the engineering design process?

   ____________________________________________
   ____________________________________________
   ____________________________________________
   ____________________________________________
   ____________________________________________

4. Question Storming takes place during which phase of the engineering design process?

   ____________________________________________

5. SCAMPER is an acronym for several actions engineers and designers use to brainstorm ideas. During
   which phase of the engineering design process does brainstorming take place?

   ____________________________________________

6. During which phase of the engineering design process would it be appropriate to prototype your
   design model?

   ____________________________________________

7. Though not one of the 5 phases of the engineering design process discussed in class, evaluation is
   important to the design process. Where would evaluation fall within the 5 phases of the engineering
   design process? Explain your reasoning.

   ____________________________________________
   ____________________________________________
   ____________________________________________
   ____________________________________________
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