1. A cut-extrude assembly feature is an example of a time dependent feature.
   a. True
   b. False
2. With SolidWorks, it is possible to select pattern instances you wish to skip while building the pattern.
   a. True
   b. False
3. Hole Wizard Holes cannot be created directly on cylindrical faces.
   a. True
   b. False
4. Using a Design Table, custom properties can be assigned to individual configurations of a part.
   a. True
   b. False
5. Which of the following is insufficient to define a reference axis?
   a. A cylindrical surface
   b. The origin
   c. Two points
6. To process a part as a sheet metal part, it must have uniform thickness.
   a. True
   b. False
7. You can drag a component so that it applies a force to other components, and can push them out of the way if their mating constraints allow it by using:
   a. Mate Diagnostics
   b. SolidWorks does not do this
   c. Move and Rotate components
   d. Physical Dynamics
8. The Autodimension tool can create which of these dimension types
   a. Baseline
   b. Ordinate
   c. Chain
   d. All of these
9. The drag handle that appears when using the extrude function is used to:
   a. Determine only the direction of the extrusion.
   b. Determine only the depth of the extrusion.
   c. Determine both the direction and the depth of the extrusion.
10. The Axis of Revolution for a Revolved feature must be contained within the same sketch as the profile.
    a. True
    b. False
Certified SolidWorks Professional
Sample Exam – Part 2: Hands-on

Instructions:

1. Create a new part
2. Using the drawing provided build this compression plate.
3. Save the part as “C Plate”

Units: millimeters

Design Intent:

- The part is symmetrical.
- The origin should be at the parts center of mass.
- The bore diameter should work for a range of values from 16 to 24 mm.
- The overall diameter should work for a range of values from 65 to 80 mm.
- The ribs are equally spaced.
- The part should be able to support a range of rib quantities from 6 to 10.
- All fillets and rounds are 1 mm.
- Maintain the design intent indicated by the part dimensions on the drawings.
Scoring criteria

Compression plate  Total value: 50 points

- Was the part created following the dimensions in the drawing?
- Change the 82 mm overall width to 100 mm. Does the part change symmetrically and has design intent been maintained?
- Change the 75 mm DIA to 82 mm. Does the part rebuild correctly and has design intent been maintained?
- Change the bore diameter from 16 mm to 20 mm. Does the part rebuild correctly and has design intent been maintained?
- Change the number of ribs from 8 to 10. Does the part rebuild correctly and has design intent been maintained?

Note: The Certified SolidWorks Professional Exam consists of 3 sections: the written test, the basic skills hands-on modeling test and the advanced skills hands-on modeling test.

We recommend designing and building all the models and drawings from our Essentials and Advanced training manuals before taking the CSWP Exam.

Good Luck,
Certification Program Manager, SolidWorks Corporation

Part 1: Correct Answers
1. a  2. a  3. b  4. a  5. b  6. a  7. d  8. d  9. c  10. b