Study Guide - Intro to Lathes

Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. The basic turning lathe is:
   a. The turret lathe
   b. The automatic lathe
   c. The engine lathe
   d. The Swiss type lathe

2. “Forming” on a lathe is accomplished by:
   a. Specially shaped cutting tools
   b. Compound rest travel
   c. Rotating fixtures
   d. By cutting grooves and chamfers

3. Vertical lathes are used for work requiring a:
   a. Larger swing and weight capacity
   b. Long, thin parts
   c. Higher turning speed (RPM)
   d. Multiple jaw chuck

4. A Swiss lathe is categorized as such because of:
   a. The tool motion in the Z-Axis comes from the motion of the workpiece
   b. They are made exclusively in Switzerland
   c. The tools themselves spin (live tooling)
   d. Threading is possible on them
5. Identify the chuck
   a. A   c. C
   b. B   d. D

6. Identify the compound rest
   a. A   c. C
   b. B   d. D

7. Identify the rack
   a. A   c. C
   b. B   d. D

8. Identify the compound apron
   a. A   c. C
   b. B   d. D

9. Identify the ways
   a. A   c. C
   b. B   d. D
10. Identify the carriage feed lever
   a. A  c. C
   b. B  d. D

11. A precision work holding device which consists of a tapered feature which is segmented so that it centers and holds round stock when tightened. Specialized versions of these are also available in shapes for other than round stock. On a mill, these are used to hold tools.
   a. Compound Rest  c. Collet
   b. Chuck  d. Carriage