

Section 1 - Unit 1: Introduction to Machining

MULTIPLE CHOICE

1. The ____ is the simplest and most likely the first machine tool.
- a. bow drill
 - b. pump drill
 - c. lathe
 - d. drill chuck

ANS: A PTS: 1 REF: 5

2. *Merriam-Webster's Dictionary* defines ____ as “to process by or as if by machine; especially: to reduce or finish by or as if by turning, shaping, planing, or milling by machine-operated tools.”
- a. drilling
 - b. operating
 - c. machining
 - d. processing

ANS: C PTS: 1 REF: 5

3. The “machine-operated tools” used to perform cutting are called machine ____.
- a. saws
 - b. tools
 - c. drills
 - d. bows

ANS: B PTS: 1 REF: 5

4. The invention of ____ greatly improved machine tool performance with a language of machine code loaded on a punch card or tape.
- a. computerized control (CC)
 - b. tape control (TC)
 - c. punch control (PC)
 - d. numerical control (NC)

ANS: D PTS: 1 REF: 7

5. In the ____, the punch card began to be replaced with computer numerical control.
- a. 1950s
 - b. 1960s
 - c. 1970s
 - d. 1980s

ANS: C PTS: 1 REF: 7

6. ____ means to produce something.
- a. Machining
 - b. Manufacturing
 - c. Processing
 - d. Operating

ANS: B PTS: 1 REF: 8

7. ____ are final manufactured items used by consumers.
- a. End products
 - b. Mating products
 - c. Components
 - d. Parts

ANS: A PTS: 1 REF: 8

8. ____ machines use multitooth saw blades to perform cutting.
- a. Welding
 - b. Sawing
 - c. Cutting
 - d. Roller

ANS: B PTS: 1 REF: 11

9. Operations that can be performed on the ____ include machining of external and internal diameters, lengths, threads, grooves, and tapers.
- a. lathe
 - b. saw
 - c. mill
 - d. drill

ANS: A PTS: 1 REF: 13

10. ____ can use either a vertical spindle or a horizontal spindle and are available in conventional or CNC versions.
- a. Saws
 - b. Drills
 - c. Milling machines
 - d. Lathes

ANS: C PTS: 1 REF: 13

11. A ____ performs holmaking operations by feeding various types of rotating cutting tools into the work.
- a. drill press
 - b. mill press
 - c. water jet
 - d. laser

ANS: A PTS: 1 REF: 13

12. ____ machining refers to using grinding wheels in either a nonprecision or precision manner.
- a. Electrical
 - b. Laser
 - c. Water jet
 - d. Abrasive

ANS: D PTS: 1 REF: 15

13. ____ machines are classified as CNC machine tools, but some sinker/ram types perform only simple movements.
- a. Electrical discharge
 - b. Laser
 - c. Abrasive
 - d. Milling

ANS: A PTS: 1 REF: 16

14. Laser machining uses a highly concentrated beam of light with temperatures up to ____ °F to cut, groove, or engrave metals.
- a. 25,000
 - b. 40,000
 - c. 75,000
 - d. 80,000

ANS: C PTS: 1 REF: 16

15. Water jet machines are able to cut through ____ inches of steel.
- a. 6
 - b. 8
 - c. 10
 - d. 12

ANS: A PTS: 1 REF: 17