

Unit -4

1. Hot working of metals is carried out:
 - a) Below recrystallization temperature
 - b) Above recrystallization temperature
 - c) At room temperature
 - d) At freezing temperature
2. Cold working is performed:
 - a) Above recrystallization temperature
 - b) Below recrystallization temperature
 - c) At melting point
 - d) At very high temperature
3. Strain hardening results in:
 - a) Decrease in strength
 - b) Increase in hardness
 - c) Increase in ductility
 - d) No change
4. Recovery process leads to:
 - a) Formation of new grains
 - b) Reduction in internal stresses
 - c) Grain growth
 - d) Melting
5. Recrystallization results in:
 - a) Old grains becoming larger
 - b) Formation of new strain-free grains
 - c) Increase in defects
 - d) No structural change
6. Blanking operation produces:
 - a) Hole as useful product
 - b) Cut-out piece as useful product
 - c) Scrap only
 - d) No product
7. In piercing operation:
 - a) Hole is useful
 - b) Blank is useful
 - c) Both are scrap
 - d) No cutting occurs
8. Coining is a process used for:
 - a) Cutting sheets
 - b) Producing fine details
 - c) Joining metals
 - d) Heating metals
9. Rolling process is used to:
 - a) Increase thickness
 - b) Reduce thickness

- c) Join metals
- d) Cut metals
- 10. Which rolling mill has two rolls?
 - a) Three-high mill
 - b) Four-high mill
 - c) Two-high mill
 - d) Cluster mill
- 11. Drawing process is used to:
 - a) Increase diameter
 - b) Reduce cross-section
 - c) Increase thickness
 - d) Cut sheets
- 12. Wire drawing is mainly used for:
 - a) Thick plates
 - b) Thin wires
 - c) Pipes
 - d) Sheets
- 13. Deep drawing is used to produce:
 - a) Flat sheets
 - b) Hollow shapes
 - c) Solid rods
 - d) Thick plates
- 14. Presses are mainly used for:
 - a) Welding
 - b) Cutting and forming
 - c) Melting
 - d) Casting
- 15. Power requirement in rolling depends on:
 - a) Material strength
 - b) Roll diameter
 - c) Reduction in thickness
 - d) All of the above

◆ Fill in the Blanks

- 1. Hot working is carried out above _____ temperature.
- 2. Cold working increases _____ of the material.
- 3. Strain hardening reduces _____ of metal.
- 4. Recovery reduces internal _____.
- 5. Recrystallization forms new _____ grains.
- 6. In blanking, the _____ is the useful product.
- 7. In piercing, the _____ is the useful output.
- 8. Rolling reduces the _____ of the material.
- 9. Wire drawing reduces the _____ of the wire.

10. Deep drawing is used to produce _____ shapes.