

## Mechanical Metallurgy Objective Questions and Answers Pdf

1. Cold working of a metal
  - a. is always carried out at room temperature for all the metals
  - b. Results in strain hardening
  - c. Is carried out above its recrystallisation temperature
  - d. Does not cause work hardeningAns: B
2. With increase in the annealing time of cold worked metals, its recrystallisation temperature
  - a. Increases
  - b. Decreases
  - c. Remains same
  - d. May increase or decrease, depends on the type of metalAns: B
3. Cold working of metals does not improve the
  - a. Izod value
  - b. Residual stresses
  - c. Yield strength
  - d. HardnessAns: A
4. From among the following \_\_\_\_\_ steel possess the maximum ductility.
  - a. Quenched
  - b. Carburised
  - c. Normalised
  - d. AnnealedAns: D
5. In hot rolling of metal
  - a. Annealing operation is a must
  - b. Electrical power requirement is very high
  - c. Surface finish is not very good
  - d. Grain refinement is not possibleAns: C
6. Good machinability is not associated with the
  - a. Removal of material with very high force
  - b. Good surface finish
  - c. Medium degree of tool abrasion
  - d. Formation of rather small chipsAs: A
7. Which of the following is a direct compression process?
  - a. Bending
  - b. Extrusion

- c. Stretch forming
- d. Forging

Ans: D

8. The rate of reaction of a/an \_\_\_\_\_ reaction is not affected by temperature rise.

- a. Auto catalytic
- b. Photochemical
- c. Consecutive
- d. Zero order

Ans: B

9. Which of the following deforms by twinning?

- a. Zinc
- b. Tin
- c. Iron
- d. All a, b and c

Ans: D

10. Which of the following cold working operation involves shearing?

- a. Perforating
- b. Embossing
- c. Rivetting
- d. Angle bending

Ans: A