

ME Practice Test Questions and Answers

1. Normalizing a steel involves:

- A) Heating to the austenite region and quenching in water
- B) Heating to the austenite region and air cooling
- C) Heating to just below the eutectoid temperature and slow furnace cooling
- D) Rapid heating followed by immediate quenching in oil

2. Extrusion of metals involves:

- A) Rolling a billet between two rotating rolls to reduce its cross-section
- B) Forcing a heated billet through a shaped die orifice by ram pressure to produce a continuous profile
- C) Drawing a wire through successively smaller dies
- D) Hammering a billet between flat dies to shape it

3. Galvanic corrosion occurs when:

- A) A metal is exposed to an oxidizing acid solution
- B) Two dissimilar metals are in electrical contact in an electrolyte, causing the less noble metal to corrode preferentially
- C) A single metal undergoes uniform dissolution in saline water
- D) Stray electrical currents pass through a metal structure

4. Martensite in steel is formed by:

- A) Slow furnace cooling of austenite
- B) Rapid quenching of austenite, preventing diffusion-based transformation
- C) Tempering of bainite at high temperature
- D) Prolonged holding at the eutectoid temperature

Answers: 1-B 2-B 3-B 4-B

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