

National Association of Corrosion Engineers Practice Test Questions and Answers

1. What is the primary cause of metallic corrosion?

- A) Physical stress
- B) Electrochemical reactions with the environment
- C) High temperatures only
- D) Mechanical wear

2. Which method is commonly used for cathodic protection?

- A) Painting the surface
- B) Applying impressed current or sacrificial anodes
- C) Increasing material thickness
- D) Using higher grade steel only

3. What does the term "passivation" mean in corrosion science?

- A) Complete removal of metal
- B) Formation of a protective oxide layer that reduces corrosion rate
- C) Mechanical polishing of surfaces
- D) Application of organic coatings

4. Which environmental factor most significantly accelerates corrosion rates?

- A) Low temperature
- B) Dry conditions
- C) High humidity and chloride exposure
- D) Low oxygen levels

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

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