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**API-571**

*Corrosion and Materials Professional*

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**Question: 285**

With steam blanketing, failure occurs as a result of \_\_\_\_\_ in the tube from the internal steam pressure at the elevated temperature.

- A . Stress risers
- B . Velocity
- C . Hoop stress
- D . Tensile strength

**Answer: C**

**Question: 286**

Carbon dioxide corrosion results when  $\text{CO}_2$  dissolves in water to form \_\_\_\_\_ acid.

- A . Sulfuric
- B . Hydrochloric
- C . Carbonic
- D . None of the above

**Answer: C**

**Question: 287**

Protection in a boiler from boiler feed water corrosion is accomplished by:

- A . Injecting chlorines to kill microbiological bugs.
- B . Injecting caustic to lower the pH to  $< 4.0$ .
- C . Lowering solids content in boiler feed water to less than 50 ppm.
- D . Maintaining a protective corrosion layer of magnetite ( $\text{Fe}_3\text{O}_4$ ).

**Answer: D**

**Question: 288**

Susceptibility to hydrogen stress cracking \_\_\_\_\_ with \_\_\_\_\_ hardness.

- A . Increases, increasing
- B . Decreases, increasing
- C . Decreases, Decreasing
- D . Both A and C

**Answer: D**

**Question: 289**

With sour water corrosion, corrosion increases with \_\_\_\_\_  $\text{NH}_4\text{HS}$  concentration and \_\_\_\_\_ velocity.

- A . Increasing, Decreasing
- B . Increasing, Increasing
- C . Decreasing, Decreasing
- D . Decreasing, Increasing

**Answer: B**

**Question: 290**

\_\_\_\_\_ is the main concern during start-up, shutdown and/or hydro testing for equipment/piping operating at elevated temperatures. This event can also occur in an auto refrigeration event in units processing light hydrocarbons.

- A . Stress fracture
- B . Carburization
- C . Spheroidization
- D . Brittle fracture

**Answer: D**

**Question: 291**

With creep, increased stress due to loss in thickness from corrosion will \_\_\_\_\_ time to failure.

- A . Increase
- B . Reduce
- C . Not affect
- D . None of the above

**Answer: B**

**Question: 292**

With hydrofluoric acid corrosion, corrosion rates increase with \_\_\_\_\_ temperatures and \_\_\_\_\_ HF concentrations.

- A . Increasing, decreasing
- B . Decreasing, increasing
- C . Increasing, increasing
- D . Decreasing, decreasing

**Answer: A**

**Question: 293**

To prevent hydrogen embrittlement, use lower strength steels and \_\_\_\_\_ to temper the microstructure, improve

ductility and reduce residual stresses.

- A . Alloys
- B . Preheat
- C . PWHT
- D . All of the above

**Answer:** C

**Question: 294**

The level of creep damage is a function of the material and the coincident \_\_\_\_\_ level at which the creep deformation occurs.

- A . Pressure/Temperature
- B . Pressure/Stress
- C . Temperature/Stress
- D . None of the above

**Answer:** C

**Question: 295**

A form of corrosion that can occur at the junction of dissimilar metals when they are joined together in a suitable electrolyte is \_\_\_\_\_.

- A . Galvanic corrosion
- B . Anodic corrosion
- C . Cathodic corrosion
- D . All of the above

**Answer:** A

**Question: 296**

The primary factors affecting high temperature oxidation are metal temperature and \_\_\_\_\_.

- A . Pressure
- B . Alloy composition
- C . Stress
- D . Oxygen

**Answer:** B

**Question: 297**

Sulfuric acid promotes general and localized corrosion of carbon steel. Carbon steel heat affected zones may experience severe corrosion. Acid concentration, temperature, alloy content and \_\_\_\_\_ are critical factors affecting sulfuric acid corrosion.

- A . Pressure

- B . Stress
- C . Velocity
- D . Ductility

**Answer:** C

**Question: 298**

Which of the following materials is affected by high temperature corrosion?

- A . Carbon steel
- B . 300 Series SS
- C . 400 Series SS
- D . All of the above

**Answer:** D

**Question: 299**

Many thermal fatigue cracks are filled with:

- A . chlorides.
- B . hydroslime.
- C . oxides.
- D . sulfides.

**Answer:** C

**Question: 300**

Ammonium chloride corrosion is the general or localized corrosion, often pitting, normally occurring under ammonium chloride or amine salt deposits. All commonly used materials are susceptible to ammonium chloride corrosion. A small amount of \_\_\_\_\_ can lead to very aggressive corrosion.

- A . Ammonium chloride
- B . Amine
- C . Water
- D . Salt

**Answer:** C

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