

## API-571<sup>Q&As</sup>

Corrosion and Materials Professional

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**QUESTION 1**

\_\_\_\_\_ is a form of stress corrosion cracking normally occurring during shutdowns, startups or during operation when air and moisture are present. Cracking is due to sulfur acids forming from sulfide scale, air and moisture acting on sensitized stainless steel.

- A. Caustic SCC
- B. Chloride SCC
- C. Polythionic acid SCC
- D. None of the above

Correct Answer: C

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**QUESTION 2**

The severity of hydrochloric acid corrosion \_\_\_\_\_ with \_\_\_\_\_ HCl concentration and increasing temperatures.

- A. Decreases, decreasing
- B. Increases, increasing
- C. Decreases, increasing
- D. Increases, decreasing

Correct Answer: B

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**QUESTION 3**

Carbonate cracking typically propagates \_\_\_\_\_ to the weld; the pattern of cracking observed on the surface is sometimes described as \_\_\_\_\_.

- A. Transverse, Eyebrow
- B. Parallel, Spider web
- C. Diagonal, Half moon
- D. Perpendicular, Stair step

Correct Answer: B

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**QUESTION 4**

The creep threshold temperature for 1 ¼, 2 ¼, 5 and 9 Cr is \_\_\_\_\_.

- A. 600° F
- B. 700° F
- C. 800° F
- D. 1000° F

Correct Answer: C

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**QUESTION 5**

Hydriding of titanium is a metallurgical phenomenon in which hydrogen diffuses into the titanium and reacts to form an embrittling phase. This can result in a complete loss of \_\_\_\_\_ with no noticeable sign of corrosion or loss of thickness.

- A. Strength
- B. Ductility
- C. Carbides
- D. Hardness

Correct Answer: B

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**QUESTION 6**

Which of the following does not increase the likelihood of atmospheric corrosion?

- A. Bird poop
- B. Increasing annual rainfalls
- C. Locations where moisture is trapped
- D. Increasing operating pressures
- E. Increasing amounts of airborne contaminants

Correct Answer: D

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**QUESTION 7**

Which of the following materials is least affected by brittle fracture?

- A. Carbon steel
- B. Chromes

- C. 300 series stainless steel
- D. 400 series stainless steel
- E. All stainless steels

Correct Answer: C

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**QUESTION 8**

In piping and equipment, creep cracking can occur where high metal temperatures and \_\_\_\_\_ occur together. Creep cracking, once initiated, can progress rapidly.

- A. Pressures
- B. Stress risers
- C. Velocities
- D. None of the above

Correct Answer: B

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**QUESTION 9**

SCC generally occurs below about \_\_\_\_\_.

- A. 150° F
- B. 180° F
- C. 210° F
- D. 240° F

Correct Answer: B

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**QUESTION 10**

With CO<sub>2</sub> corrosion, increasing temperatures \_\_\_\_\_ corrosion rates up to the point where CO<sub>2</sub> is vaporized.

- A. Decrease
- B. Increase
- C. Eliminate
- D. None of the above

Correct Answer: B

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**QUESTION 11**

Amine corrosion depends on the design, operating practices, the type of amine, amine concentration, temperature and \_\_\_\_\_.

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

Correct Answer: B

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**QUESTION 12**

Decarburization results in a \_\_\_\_\_, which can be confirmed by hardness testing.

- A. Hardness
- B. Softness
- C. Brittleness
- D. Oxidizing

Correct Answer: B

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**QUESTION 13**

If wet electrodes or high moisture content flux weld electrodes are used to weld carbon steel, hydrogen can be charged into the steel resulting in \_\_\_\_\_.

- A. Reduced tensile strength
- B. Loss of ductility
- C. Delayed cracking
- D. All of the above

Correct Answer: C

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**QUESTION 14**

At elevated temperatures, dissimilar weld metal cracking is aggravated by the diffusion of carbon out of the weld metal and into the base metal. The temperature at which carbon diffusion becomes a concern is above \_\_\_\_\_.

- A. 700° F
- B. 750° F
- C. 800° F
- D. 900° F

Correct Answer: C

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**QUESTION 15**

\_\_\_\_\_ is often found in piping and equipment that handles caustic, including H<sub>2</sub>S and mercaptan removal units, as well as equipment that uses caustic for neutralization in sulfuric acid and HF acid units.

- A. Carburization
- B. Sulfide corrosion
- C. Caustic embrittlement
- D. Hydrogen cracking

Correct Answer: C

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