



API-571^{Q&As}

Corrosion and Materials Professional

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QUESTION 1

Atmospheric corrosion is of greatest concern in:

- A. Dry climates in rural locations.
- B. Dry climates in industrial locations.
- C. Wet climates in rural locations.
- D. Wet climates in industrial locations.

Correct Answer: D

QUESTION 2

Refractory lined equipment should be designed for erosion, thermal shock and _____.

- A. Thermal fatigue
- B. Thermal expansion
- C. Thermal contraction
- D. All of the above

Correct Answer: B

QUESTION 3

Foul smelling water may be a sign of fouling and/or _____

- A. MIC
- B. HIC
- C. SOHIC
- D. All of the above

Correct Answer: A

QUESTION 4

CI SCC usually occurs at metal temperatures above _____.

- A. 125° F
- B. 175° F



C. 140° F

D. 200° F

Correct Answer: C

QUESTION 5

Which of the following materials are affected by mechanical fatigue cracking?

A. Only carbon steel

B. Only carbon steel and chromes

C. Only carbon steel, and high nickel alloys

D. All materials

Correct Answer: B

QUESTION 6

A quick test for embrittlement from _____ is a bend test or crush test. Unaffected material will be crushed in a ductile fashion while embrittled components will crack with no signs of ductility.

A. Titanium Hydriding

B. Temper embrittlement

C. Caustic embrittlement

D. None of the above.

Correct Answer: A

QUESTION 7

With ammonia stress corrosion cracking weld hardness should not exceed _____ BHN.

A. 237

B. 225

C. 235

D. 218

Correct Answer: B

**QUESTION 8**

Susceptibility to temper embrittlement is largely determined by the presence of the alloying elements manganese and _____.

- A. Chromium
- B. Moly
- C. Silicon
- D. None of the above

Correct Answer: C

QUESTION 9

Surface initiated cracks caused by environmental cracking of 300 Series SS and some nickel based alloys under the combined action of tensile stress, temperature and an aqueous chloride environmental is called _____. The presence of dissolved oxygen _____ the propensity for cracking.

- A. Cl SCC, Increases
- B. Stress cracking, Increases
- C. Cl SCC, Decreases
- D. Stress cracking, Decreases

Correct Answer: A

QUESTION 10

Temper embrittlement _____ be prevented if the material contains critical levels of the embrittling impurity elements and is exposed in the embrittling range.

- A. Can
- B. Cannot
- C. Will
- D. None of the above

Correct Answer: B

QUESTION 11

Sulfur and chlorine species in fuel will form sulfur dioxide, sulfur trioxide and hydrogen chloride within the combustion



products. At low enough temperatures, these gases and the water vapor in the flue gas will condense to form _____ acid.

- A. Hydrochloric
- B. Hydrofluoric
- C. Sulfuric
- D. Both A and C

Correct Answer: D

QUESTION 12

At high temperatures, metal components can slowly and continuously deform under load below the yield stress. This time dependent deformation of stressed components is known as _____.

- A. Deformation
- B. Fatigue
- C. Creep
- D. Thermal fatigue

Correct Answer: C

QUESTION 13

What is the chemical symbol for propane or propylene?

- A. C²
- B. C₃
- C. C₄
- D. CH₄

Correct Answer: B

QUESTION 14

MIC is often characterized by _____ within pits in carbon steel.

- A. Oxide
- B. Tubercles



C. Worm holes

D. Cup shaped pits

Correct Answer: D

QUESTION 15

With thermal fatigue, time to failure is a function of the magnitude of the stress and the number of cycles and decreases with _____ stress and _____ cycles.

A. Increasing, Decreasing

B. Increasing, Increasing

C. Decreasing, Decreasing

D. Decreasing, Increasing

Correct Answer: B

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