API-571^{Q&As}

Corrosion and Materials Professional

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QUESTION 1

_____ of a component is the most important factor in determining a components resistance to mechanical fatigue.

A. Design

B. Temperature

C. Stress

D. Pressure

Correct Answer: A

QUESTION 2

Blistering, HIC and SOHIC have been found to occur between ambient and _____.

A. 250º F

B. 300º F

C. 350º F

D. 400º F

Correct Answer: B

QUESTION 3

Corrosion rates of the anode will be less affected if there is a _____ anode to cathode ratio.

A. Large

B. Small

C. Severe

D. None of the above

Correct Answer: A

QUESTION 4

Improved resistance to erosion is usually achieved through increasing substrate _____ using harder alloys, hard facing or face-hardening treatment.

A. Composition

B. Stress

C. Hardness

D. None of the above

Correct Answer: C

QUESTION 5

The more noble material, called the _____, is protected by sacrificial corrosion of the more active material, called the _____. The more active metal corrodes at a higher rate than it would if it were not connected to the more noble metal.

A. Anode, Cathode

B. Cathode, Anode

C. Alpha, Omega

D. None of the above

Correct Answer: B

QUESTION 6

For some materials such as titanium, carbon steel and low alloy steel, the number of cycles to fatigue fracture decreases with _____ until an endurance limit is reached. Below this endurance limit, fatigue cracking will not occur, regardless of the number of cycles.

A. Temperature increases

B. Stress endurance

C. Pressure decreases

D. None of the above

Correct Answer: B

QUESTION 7

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. 700º F

B. 750º F

C. 800º F

D. 900º F

Correct Answer: C

QUESTION 8

Cracks connecting hydrogen blisters are referred to as _____.

A. SOHIC

B. HIC

C. SCC

D. None of the above

Correct Answer: B

QUESTION 9

_____ is a form of cracking that results when certain molten metals come in contact with specific alloys. Cracking can be very sudden and brittle in nature.

A. SCC

B. LME

C. AET

D. SOHIC

Correct Answer: B

QUESTION 10

_____ is when oxygen reacts with carbon steel and other alloys at high temperatures converting the metal to oxide scale.

A. High temperature corrosion

B. Oxidation

C. Dealloying

D. Thermal fatigue

Correct Answer: A

QUESTION 11

Which of the following does not increases 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 contaminates

Correct Answer: D

QUESTION 12

Erosion-corrosion is a description for the damage that occurs when corrosion contributes to erosion by removing protective films or scales, or by exposing the metal surface to further _____ under the combined action of corrosion-erosion.

A. Stress

B. Corrosion

C. Oxidation

D. None of the above

Correct Answer: B

QUESTION 13

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

A. Hardness

B. Softness

C. Brittleness

D. Oxidizing

Correct Answer: B

QUESTION 14

The major factors affecting high temperature sulfidation are the temperature, the presence of hydrogen, the

concentration of H? and the _____.

A. Alloy content

B. Velocity

C. Pressure

D. Water content

Correct Answer: A

QUESTION 15

_____ acid is most often used as a catalyst in polymerization units.

A. Polythionic

B. Naphthenic

C. Phosphoric

D. Sulfuric

Correct Answer: C

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