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Question 1

Question Type: MultipleChoice

300 Series SS, 5Cr, 9Cr and 12Cr alloys are not susceptible to _____ at conditions normally seen in refineries.

Options:

A- CI SCC

B- SOHIC

C- HTHA

D- HTLA

Answer:

C

Question 2

Question Type: MultipleChoice

Carbonate SCC may easily be mistaken for SSC or SOHIC; however, the carbonate cracks are usually _____ the toe of the weld and have multiple parallel cracks.

Options:

- A- Further from
- B- Closer to
- C- Diagonal to
- D- Perpendicular to

Answer:

A

Question 3

Question Type: MultipleChoice

Carbonate SCC can occur at relatively low levels of _____ but usually occurs at welds that have not been stressed relieved.

Options:

- A- Residual stress
- B- Applied stress
- C- Acid concentration
- D- None of the above

Answer:

A

Question 4

Question Type: MultipleChoice

Hydrogen stress cracking is the same mechanism that is responsible for sulfide stress corrosion cracking in wet HS environments except that HF acid is generating the _____.

Options:

- A- Sulfide

- B- Corrosion
- C- Hydrogen
- D- None of the above

Answer:

C

Question 5

Question Type: MultipleChoice

All piping and equipment exposed to HF acid at any concentration with hardness levels above the recommended limit (237 BHN) are subject to _____.

Options:

- A- Hydrogen stress cracking
- B- Sulfide stress cracking
- C- Chloride stress cracking

D- None of the above

Answer:

A

Question 6

Question Type: MultipleChoice

_____ significantly increases the probability and severity of blistering, HIC and SOHIC damage.

Options:

A- Caustic

B- Cyanides

C- Stress

D- Temperature

Answer:

B

Question 7

Question Type: MultipleChoice

SSC is a form of hydrogen stress cracking resulting from the absorption of atomic hydrogen that is produced by the _____ corrosion process on the metal surface.

Options:

A- HCl

B- HF

C- Sulfide

D- Wet HS

Answer:

C

Question 8

Question Type: MultipleChoice

In order to minimize and prevent amine SCC, PWHT all carbon steel welds in accordance with API RP _____.

Options:

A- 751

B- 912

C- 510

D- 945

Answer:

D

Question 9

Question Type: MultipleChoice

The "L" grade of stainless steels will sensitize if exposed more than several hours above _____ or long term above _____.

Options:

A- 1200 F, 800 F

B- 1000, 600 F

C- 1000 F, 750 F

D- 1100 F, 800 F

Answer:

C

Question 10

Question Type: MultipleChoice

For furnaces, to prevent PASCC, keep the firebox heated above the dewpoint to keep _____ from forming.

Options:

A- Water

B- Acids

C- Moisture

D- Corrosion

Answer:

B

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