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Question 1

Question Type: **MultipleChoice**

NAC may be found in hot hydrocarbon streams downstream of the crude and vacuum units, _____ any hydrogen mix point.

Options:

A- Upstream of

B- Downstream of

C- Adjacent to

D- Around

Answer:

A

Question 2

Question Type: **MultipleChoice**

A minimum of _____ to _____ molybdenum is needed in an alloy to resist naphthenic acid corrosion.

Options:

A- 2%, 3%

B- 1 %, 2 %

C- 2%, 2 %

D- 1%, 2%

Answer:

C

Question 3

Question Type: MultipleChoice

In HF service, carbon steel operating above _____ should be closely monitored for loss in thickness and may need to be upgraded to Alloy 400.

A- 150 F

B- 175 F

C- 160 F

D- 200 F

Answer:

A

Question 4

Question Type: MultipleChoice

The presence of _____ can destabilize the scale and turn it into a nonprotective scale.

Options:

A- HS

B- O

C- H

D- HO

Answer:

D

Question 5

In HF service, carbon steel forms a protective _____ scale in dry concentrated acid. Loss of the protective scale through high velocities or turbulence will result in greatly accelerated corrosion rates.

Options:

A- Chloride

B- Fluoride

C- Iron sulfide

D- Iron oxide

Question 6

Question Type: **MultipleChoice**

High temperature H / HS corrosion damage is minimized by using alloys with high _____ content.

Options:

A- Carbon

B- Molybdenum

C- Chromium

D- Stainless

Answer:

C

Question 7

Susceptibility to sulfidation is determined by the _____ of the material.

Options:

A- Corrosion resistance

B- Tensile strength

C- Chemical composition

D- Yield strength

Answer:

C

Question 8

_____ injection downstream of the desalter is another common method used to reduce the amount of HCl going overhead.

Options:

A- Hydrogen

B- Nitrogen

C- Water

D- Caustic

Answer:

D

Question 9

Question Type: **MultipleChoice**

Oxygen and iron in the wash water injected into reactor effluent can lead to _____ corrosion and fouling.

Options:

A- Increased

B- Decreased

C- Substantial

D- Minimal

Answer:

A

Question 10

Question Type: **MultipleChoice**

With sour water corrosion, corrosion increases with _____ NH4HS concentration and _____ velocity.

Options:

A- Increasing, Decreasing

B- Increasing, Increasing

C- Decreasing, Decreasing

D- Decreasing, Increasing

Answer:

B

Question 11

Question Type: MultipleChoice

The regenerator reboiler and the regenerator are areas where the temperature and _____ of the amine stream are the highest and can cause significant corrosion problems.

Options:

A- Pressure

B- Stress

C- Turbulence

D- Concentration

C

Answer:

C

Question 12

Question Type: **MultipleChoice**

Cadmium and lead will cause LME on _____.

Options:

A- Copper alloys

B- 300 Series SS

C- Aluminum alloys

D- High strength steel

Answer:

D