



Free Questions for API-571

Shared by Wheeler on 12-12-2023

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## Question 1

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Question Type: MultipleChoice

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SSC is a form of \_\_\_\_\_ stress corrosion cracking.

Options:

- A- Hydrogen
- B- Caustic
- C- Polythionic
- D- Alkaline



Answer:

A

## Question 2

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Question Type: MultipleChoice

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Mitigation of CUI is best achieved by \_\_\_\_\_.

Options:

- A- A properly documented inspection program
- B- A properly installed insulation system
- C- A properly applied coating system
- D- A properly documented NDE program



Answer:

C

## Question 3

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Question Type: MultipleChoice

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

Options:

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- A- Increased
- B- Decreased
- C- Substantial
- D- Minimal

Answer:

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A

## Question 4

Question Type: MultipleChoice

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\_\_\_\_\_ is accelerated high temperature wastage of materials that occurs when contaminants in the fuel form deposits and melt on the metal surfaces.

Options:

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- A- Spheroidization
- B- Dealloying
- C- Fuel ash corrosion
- D- None of the above

Answer:

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C

## Question 5

Question Type: MultipleChoice

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Which of the following is not a prime candidate for thermal fatigue?

Options:

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- A- Coke drums
- B- Steam actuated soot blowers
- C- Mix points of hot and cold streams

- D- 600 psig steam piping
- E- Welds joining materials having different coefficients of expansion

Answer:

D

## Question 6

Question Type: MultipleChoice

\_\_\_\_\_ is a form of damage found mostly in older vintage carbon steels and C-0.5 Mo low alloy steels under the combined effects of deformation and aging at an intermediate temperature.

Options:

- A- Spheroidization
- B- Thermal fatigue
- C- Strain aging
- D- None of the above

Answer:

C

## Question 7

Question Type: MultipleChoice

Which of the following is not a major factor associated with corrosion by sulfidation?

Options:

- A- Alloy composition
- B- Operating pressure
- C- Operating temperature
- D- Sulfur content

Answer:

B

## Question 8

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Question Type: MultipleChoice

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Mechanical fatigue can cause cracks that initiate from the surface and often form a:

Options:

- A- Clam shell appearance.
- B- Snail shell appearance.
- C- Turtle shell appearance.
- D- Shell Oil shell appearance.
- E- Taco shell appearance.



Answer:

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A

## Question 9

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Question Type: MultipleChoice

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The removal of a material's protective scale by impacting materials is called:

Options:

- A- Erosion
- B- Erosion-corrosion
- C- Erosion or erosion-corrosion
- D- IPRSC (impacting particle removal of scale corrosion)



Answer:

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B

## Question 10

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Question Type: MultipleChoice

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A 5Cr-1Mo piping system in the hydrogen unit shows significant internal wall loss after 2 years in service due to CO corrosion. Which material would be best suited to use to install a new pipe system?

Options:

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- A- Titanium
- B- 9Cr-1Mo
- C- A-106 Gr B
- D- 316 SS

Answer:

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D

## Question 11

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Question Type: MultipleChoice

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Atmospheric corrosion is of greatest concern in:

Options:

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

Answer:

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D

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