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## Question 1

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**Question Type:** MultipleChoice

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What method is most used to assure boiler feed water corrosion is not occurring?

**Options:**

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- A- Spot UT readings at turbulent areas
- B- Profile RT at turbulent areas
- C- Profile RT at stagnant areas
- D- Laboratory analysis of boiler feedwater

**Answer:**

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D

## Question 2

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**Question Type:** MultipleChoice

---

The removal of surface material by impacting materials is called:

**Options:**

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- A- Erosion
- B- Erosion corrosion
- C- Erosion or erosion corrosion
- D- IPC (impacting particle corrosion)

**Answer:**

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A

## Question 3

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**Question Type: MultipleChoice**

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Many thermal fatigue cracks are filled with:

**Options:**

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A- chlorides.

B- hydroslime.

C- oxides.

D- sulfides.

**Answer:**

---

C

## Question 4

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**Question Type: MultipleChoice**

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Which of the following materials is least affected by atmospheric corrosion?

**Options:**

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A- Carbon steel

- B- Chromes
- C- Stainless steels
- D- Copper alloyed with aluminum

**Answer:**

---

C

## Question 5

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**Question Type:** MultipleChoice

---

The best way to prevent failures by atmospheric corrosion is to:

**Options:**

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- A- Have an aggressive inspection program.
- B- Reduce airborne particulates.
- C- Install and maintain appropriate coatings.
- D- Shoot all birds that cross the plant fence.

**E-** Build new petrochemical facilities in a dry desert.

**Answer:**

---

C

## Question 6

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**Question Type:** MultipleChoice

---

Sulfidation of iron-based alloys usually begins at about:

**Options:**

---

**A-** 150 oF.

**B-** 250 oF.

**C-** 500 oF.

**D-** 1100 oF.

**Answer:**

---

C

## Question 7

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**Question Type:** MultipleChoice

---

Which material does not have an endurance limit?

**Options:**

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**A-** Non-normalized carbon steel

**B-** Normalized carbon steel

**C-** Stainless steel

**D-** Titanium

**Answer:**

---

C

## Question 8

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**Question Type: MultipleChoice**

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What treatment is used to prevent boiler feed water corrosion?

**Options:**

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- A- Oxide scavengers are added to process
- B- Oxygen scavengers are added to process
- C- Sulfide scavengers are added to process
- D- Sulfur scavengers are added to process

**Answer:**

---

B

## Question 9

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**Question Type: MultipleChoice**

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Atmospheric corrosion:



**Options:**

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- A- Can cause either uniform or localized wall loss.
- B- Always causes localized wall loss.
- C- Always causes uniform wall loss.
- D- Is best detected using profile RT.

**Answer:**

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A

## Question 10

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**Question Type: MultipleChoice**

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Mechanical fatigue is caused by:

**Options:**

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- A- Cyclic stresses occurring over a long period of time.

- B-** Higher than average stresses at high temperatures.
- C-** Constant stresses occurring at low temperatures.
- D-** Cyclic operating conditions of bird poop then rain, bird poop then rain, etc.

**Answer:**

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A

## Question 11

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**Question Type:** MultipleChoice

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Inspecting for high-cycle fatigue can be difficult since:

**Options:**

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- A-** The cracks are extremely tight.
- B-** Predicting the location of cracking is difficult.
- C-** Once the crack begins, only a few cycles are needed for the crack to lead to failure.
- D-** Often the equipment is vibrating making non-destructive evaluations difficult.

**Answer:**

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C

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