

# API-571<sup>Q&As</sup>

Corrosion and Materials Professional

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**QUESTION 1**

If the BHN is 400-500 it may indicate \_\_\_\_\_.

- A. Carburization
- B. Hydriding
- C. Temper embrittlement
- D. Caustic embrittlement

Correct Answer: B

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**QUESTION 2**

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

- A. Temperature
- B. Pressure
- C. Velocities
- D. None of the above

Correct Answer: C

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**QUESTION 3**

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

- A. CI SCC
- B. SOHIC
- C. HTHA
- D. HTLA

Correct Answer: C

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**QUESTION 4**

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

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## QUESTION 5

\_\_\_\_\_ cooling water outlet temperatures and/or process side outlet temperatures tend to \_\_\_\_\_ corrosion rates as well as fouling tendency.

- A. Increasing, decrease
- B. Decreasing, decrease
- C. Decreasing, increase
- D. Increasing, increase

Correct Answer: D

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