



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

Corrosion and Materials Professional

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### QUESTION 1

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 2

Hydrochloric acid corrosion is a general and localized corrosion and is very aggressive to most common materials of construction. Damage in refineries is often associated with dew point corrosion in which vapors containing \_\_\_\_\_ and hydrogen chloride condense from the overhead stream of a distillation, fractionation, or stripping tower.

- A.  $O^2$
- B. O
- C.  $H^2O$
- D.  $CO^2$

Correct Answer: C

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### QUESTION 3

\_\_\_\_\_ and \_\_\_\_\_ damage develop without applied or residual stress so that PWHT will not prevent them from occurring.

- A. SOHIC, Blistering
- B. SCC, SOHIC
- C. HIC, SCC
- D. Blistering, HIC

Correct Answer: D

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### QUESTION 4



Temper embrittlement is a metallurgical change that is not readily apparent and can be confirmed through \_\_\_\_\_.

- A. Metallographic examination
- B. Impact testing
- C. Metallography
- D. None of the above

Correct Answer: B

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#### QUESTION 5

At elevated temperature, the carbide phases in certain carbon steels are unstable and may decompose into \_\_\_\_\_. This decomposition is known as graphitization.

- A. Silicon
- B. Graphite nodules
- C. Carbon dust
- D. Graphite dust

Correct Answer: B

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