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**Exam** : **API-571**

**Title** : Corrosion and Materials  
Professional

**Version** : DEMO

1. \_\_\_\_\_ is the main concern during start-up, shutdown and/or hydro testing for equipment/piping operating at elevated temperatures. This event can also occur in an auto refrigeration event in units processing light hydrocarbons.

- A. Stress fracture
- B. Carburization
- C. Spheroidization
- D. Brittle fracture

**Answer: D**

2. Fatigue will not occur in carbon steel if stresses are below the:

- A. Transition limit.
- B. Endurance limit.
- C. Hardening limit.
- D. Speed limit.

**Answer: B**

3. \_\_\_\_\_ has been a major problem on coke drum shells.

- A. Thermal fatigue
- B. Stress cracking
- C. Erosion
- D. Temper embrittlement

**Answer: A**

4. The "L" grade of stainless steels will sensitize if exposed more than several hours above \_\_\_\_\_ or long term above \_\_\_\_\_.

- A. 1200° F, 800° F
- B. 1000°, 600° F
- C. 1000° F, 750° F
- D. 1100° F, 800° F

**Answer: C**

5. Once cracking from LME has occurred, grinding out the affected area \_\_\_\_\_ an acceptable fix.

- A. Is
- B. Is not
- C. Can be
- D. Can not be

**Answer: B**