

# API 571 Practice Test Questions and Answers

## 1. What is the primary effect of carburization on steel?

- A) Loss of carbon from the steel surface
- B) Precipitation of chromium carbides at grain boundaries
- C) Absorption of carbon increasing hardness and causing embrittlement
- D) Formation of sigma phase in austenitic steels

## 2. Pitting corrosion is characterized by which type of attack?

- A) Uniform metal loss across the surface
- B) Localized attack forming small, deep cavities
- C) Grain boundary dissolution
- D) General surface thinning

## 3. How does stress rupture differ from classic long-term creep?

- A) Stress rupture occurs at lower temperatures than creep
- B) Stress rupture occurs at higher stress levels with shorter time to failure
- C) Stress rupture involves no measurable plastic deformation
- D) Stress rupture only affects non-ferrous alloys

## 4. Which stage of creep directly precedes and leads to fracture?

- A) Primary creep with decreasing strain rate
- B) Secondary (steady-state) creep with constant strain rate
- C) Tertiary creep with accelerating strain rate and void coalescence
- D) Incubation period before measurable creep begins

**Answers: 1-C 2-B 3-B 4-C**

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