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Quizlet API 571 Exam Prep - Multiple Choice

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1 The best way to prevent 845°F embrittlement is to use low ____ alloys, or to avoid exposing the susceptible material to the embrittlement range.

A. Austenite
B. Martensite
C. Ferrite
D. Chromium

2 The amplitude and frequency of vibration as well as the ____ of the components are critical factors in vibration-induced fatigue.

A. Velocity
B. Temperature
C. Fatigue resistance
D. Material properties

3 Cavitation is best prevented by avoiding conditions that allow the absolute pressure to fall below the ____ of the liquid or by changing the material properties.

A. Minimum pressure
B. Pressure/Vapor ratio
C. Maximum pressure
D. Vapor pressure

4 Hardness levels above ____ are highly susceptible to hydrogen stress cracking (HSC). Time-to-failure decreases as the hardness increases.

A. 225 BHN
B. 237 BHN
C. 241 BHN
D. 247 BHN

5 ____ are the most common type of equipment susceptible to carburization in the refining industry.

A. Reactors
B. Heat exchanges
C. Heater tubes
D. Fin Fans

6 Different organisms thrive on different nutrients including inorganic substances (Sulfur, HS), and organic substances (Hydrocarbons, Organic acids). In addition, all organisms require a source of carbon, nitrogen and ____ for growth.

A. Oxygen
B. Water
C. Manganese
D. Phosphorous

7 In design and fabrication, it is advisable to avoid sharp changes in cross section, such as short radius fillets or undercut that can give rise to ____.

A. Long-seam welds are particularly susceptible to reheat cracking due to mismatch caused by fit up problems.

B. Stress concentrations
C. Cracking
D. Circumferential stress
E. All of the above

8 The most important factors affecting graphitization are the chemistry, stress, temperature and ____.

A. Velocity
B. Time at exposure
C. Pressure
D. Ductility

9 Creep damage is found in high temperature equipment operating above the _____. Fired heater tubes and components, Catalytic reactors, FCC reactors and FCC fractionator and regenerator internals all operate in or near this.

A. Transition range
B. MDT
C. Creep range
D. None of the above

10 Amine stress corrosion cracking is most often associated with lean amine services. The pure alkanolamine does not cause cracking. Cracking in rich amine services are most often associated with ____ problems.

A. HSC
B. Stress
C. Wet HSC
D. Temperature

11 The loss in strength from spheroidization (softening) is usually accompanied by a(n) ____ in ductility, which allows for deformation at stress concentration.

A. Increase
B. Decrease
C. Reduction
D. Yield

12 Which of the following materials is not susceptible to high temperature hydrogen attack?

A. 304 Series SS
B. 5Cr-1Mo
C. 9Cr-1Mo
D. All of the above

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API Corrosion and Materials Professional Sample Questions (Q128-Q133):

NEW QUESTION # 128

Heat treatment can have a significant effect on the toughness and hence fatigue resistance of a metal. In general, _____ grained microstructures tend to perform better than _____ grained.

- A. Fine, Course
- B. Austenitic, martensitic
- C. Course, Fine
- D. Martensitic, austenitic

Answer: A

NEW QUESTION # 129

For galvanic corrosion to take place, three conditions must be met, presence of an electrolyte, two different materials or alloys and _____.

- A. An electrical connection
- B. An anode
- C. A cathode
- D. None of the above

Answer: A

NEW QUESTION # 130

Cavitation is best prevented by avoiding conditions that allow the absolute pressure to fall below the _____ of the liquid or by changing the material properties.

- A. Vapor pressure
- B. Pressure/vapor ratio
- C. Maximum pressure
- D. Minimum pressure

Answer: A

NEW QUESTION # 131

Which of these materials are susceptible to creep damage?

- A. Carbon steel
- B. Low alloy steel
- C. Stainless steel
- D. All of the above

Answer: D

NEW QUESTION # 132

_____ caustic concentrations and _____ temperatures increase the likelihood and severity of cracking with caustic embrittlement.

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

Answer: D

NEW QUESTION # 133

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