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QUESTION NO: 1

SCC generally occurs below about _____.

A. 150º F

B. 180º F

C. 210º F

D. 240º F

ANSWER: B

QUESTION NO: 2

Time to failure by thermal fatigue is primarily affected by:

A. Magnitude of stress and operating temperature.

B. Magnitude of stress and number of cycles.

C. Carbon content in material and operating temperature.

D. Carbon content in material and number of cycles.

ANSWER: B

QUESTION NO: 3

Inspection for wet H2S damage generally focuses on _____ and _____.

A. Weld seams

B. Nozzles

C. Trays

D. Down comers

E. A and B

ANSWER: E

QUESTION NO: 4

A steam actuated soot blower has condensate in the first steam exiting the soot blower. What type of damage can be expected to be found when the furnace is brought down for maintenance and inspection?

A. Thermal fatigue

B. Steam blanketing

C. Creep

D. Stress rupture

ANSWER: A

QUESTION NO: 5

The graphitization rate _____ with increasing temperature

A. Increases

B. Decreases

C. Stops

D. Proceeds

ANSWER: A

QUESTION NO: 6

Units where graphitization may be suspected are the FCCU and the _____ unit.

A. Hydrotreater

B. Coker

C. Alky

D. None of the above

ANSWER: B

QUESTION NO: 7

Metallic components form a surface _____ when exposed to sulfur compounds. This may react with air (oxygen) and moisture to form sulfur acids (polythionic acid).

A. Oxide

B. Sulfide scale

C. Sulfate scale

D. Caustic scale

ANSWER: B

QUESTION NO: 8 - (FILL BLANK)

Ways to prevent thermal fatigue include reducing stress concentrators by making _____ transitions at places where the wall thickness changes.

ANSWER: Smooth

QUESTION NO: 9

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

ANSWER: B

QUESTION NO: 10

To prevent hydrogen embrittlement, use lower strength steels and _____ to temper the microstructure, improve ductility and reduce residual stresses.

A. Alloys

B. Preheat

C. PWHT

D. All of the above

ANSWER: C

QUESTION NO: 11

_____ is most likely found in hard welds and heat affected zones and in high strength components.

A. SOHIC

B. HIC

C. Carburization

D. SSC

ANSWER: D