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Vendor: API
Code: API-571

**Exam: Corrosion and Materials** 

https://www.examsnest.com/exam/api-571/

QUESTIONS & ANSWERS

DEMO VERSION

## QUESTIONS & ANSWERS DEMO VERSION (LIMITED CONTENT)

D. None of the Above

Version: 6.0
Question: 1
is a change in the microstructure of certain carbon steels and 0.5 Mo steels after long term operation in the 800° F to 1100° F range.  A. Graphitization B. Softening C. Temper Embrittlement D. Creep
Answer: A
Question: 2
What structure is 304 stainless steel?
A. Martensitic B. Austenitic C. Duplex D. Ferritic
Answer: B
Question: 3
is the result of cyclic stress caused by variations in temperature.
A. Creep B. Thermal Fatigue C. Cyclic Cracking D. Stress Corrosion Cracking
Answer: B
Question: 4
General or localized corrosion of carbon steels and other metals caused by dissolved salts, gases, organic compounds or microbiological activities is called
A. Flue Gas Corrosion B. Atmospheric Corrosion C. Cooling Water Corrosion

D. 9%

E. All of the Above	
	Answer: C
Question: 5	
What structure is 410 stainless steel?	
A. Martensitic B. Austenitic C. Duplex D. Ferritic	
	Answer: A
Question: 6	
The sudden rapid fracture under stress (residual or applied) where the evidence of ductility or plastic deformation is called	e material exhibits little or no
A. 885º F Embrittlement B. Temper Embrittlement C. Stress Corrosion Cracking D. Brittle Fracture	
	Answer: D
Question: 7	
What structure is 409 stainless steel?	
A. Martensitic B. Austenitic C. Duplex D. Ferritic	
	Answer: D
Question: 8	
Low alloy steels contain a maximum of chrome.	
A. 5% B. 6% C. 7.5%	

	Answer: D
Question: 9	
Which of the following can be affected by 885° F Embrittlement?	
A. 410 SS B. 430 SS C. 308 SS D. Alloy 2205 E. A, B and D	
	Answer: E
Question: 10	
For 5Cr-0.5Mo, what is the threshold temperature for creep?	
A. 500° F B. 800° F C. 600° F D. 700° F	
	Answer: B
Question: 11	
has been a major problem on coke drum shells.	
A. Thermal fatigue B. Stress cracking C. Erosion	
D. Temper embrittlement	
	Answer: A
Question: 12	
Thermal fatigue cracks propagate to the stress and a transgranular and oxide-filled.	are usually dagger shaped,
A. Axial B. Diagonal C. Transverse D. Angular	

		Answer: C
Question: 13		
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: 14		
is a form of erosion tiny vapor bubbles.	caused by the formation and instantar	neous collapse of innumerable
<ul><li>A. Condensate corrosion</li><li>B. Cavitation</li><li>C. Dew-Point corrosion</li><li>D. Atmospheric corrosion</li></ul>		
		Answer: B
Question: 15		
With CUI, corrosion rateswater evaporates quickly.	with increasing metal temperat	ures up to the point where the
<ul><li>A. Decrease</li><li>B. Increase</li><li>C. Stay the same</li><li>D. None of the above</li></ul>		
		Answer: B
Question: 16		

Which of the following metals is the most anodic?

- A. Zinc
- B. Carbon Steel
- C. Nickel

D. Monel	
	Answer: A
Question: 17	
Cracking of dissimilar weld metals occurs on the side of a value a Ferritic material operating at high temperatures.	veld between an austenitic and
A. Austenitic B. Ferritic C. Anodic D. Cathodic	
	Answer: B
Question: 18	
Soil to Air interface areas are usually more susceptible to corrosion because of and availability.	than the rest of the structure
A. Moisture B. Bacteria C. Oxygen D. B and C	
E. A and C	
	Answer: E
Question: 19	
Carburization can be confirmed by substantial increases in ar	d loss of
A. Hardness B. Tensile Strength C. Ductility D. A and B E. A and C	
	Λης
	Answer: E
Question: 20	
Liquid metal embrittlement can occur if 300 Series SS comes in contac	t with molten
A. Copper	

B. Mercury	
C. Zinc	
D. Lead	
	Answer: C
Question: 21	
<del>`</del>	
Cracks that are typically straight, non-branching, and devoid of any as are likely associated with which type of failure?	ssociated plastic deformation
A. Stress corrosion cracking	
B. Brittle fracture	
C. Thermal fatigue	
D. Temper embrittlement	
	à.
	Answer: B
Question: 22	
At high temperatures, metal components can slowly and continuously yield strength. This time dependent deformation of stressed component	
A C	
A. Creep	
B. Ductility	
C. Softening	
D. Hardening	
	Answer: A
Overtiens 22	
Question: 23	
Permanent deformation occurring at relatively low stress levels as a rescalled	ult of localized overheating is
A. Stress cracking	
B. Brittle fracture	
C. Temper embrittlement	
D. Stress rupture	
D. Stress rupture	
	Answer: D
Question: 24	
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A. Brittle fracture B. Thermal fatigue C. Thermal shock D. Stress rupture	
	Answer: C
Question: 25	
Nickel based alloys usually contain nickel.	
A. ≥30% B. ≥20% C. ≥10% D. ≥12%	
	Answer: A
Question: 26	
is a change in the microstructure of certain carbon steels term operation in the 800° F to 1100° F range that may cause a lost creep resistance.	_
A. Embrittlement B. Carburization C. Graphitization D. Sensitization	
	Answer: C



## Thank You for trying the PDF Demo

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