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Examination for Painting: New Construction & Maintenance
Chapters 2 thru 4

CHAPTER 2 – CORROSION THEORY AND CORROSION PROTECTION

1. What is the estimated annual cost of corrosion and corrosion protection in the United States?
 - a) In excess of 100 million dollars
 - b) In excess of 10 billion dollars
 - c) In excess of 10 million dollars
 - d) In excess of 1 billion dollars

2. What is another name for general corrosion?
 - a) Universal corrosion
 - b) Anodic corrosion
 - c) Uniform corrosion
 - d) Distributed corrosion

3. Which of the following has the highest tendency to corrode in a galvanic cell in seawater?
 - a) Lead
 - b) Low-carbon steel
 - c) Stainless steel
 - d) Copper

4. Which of the following is one of the most destructive forms of corrosion?
 - a) Stress corrosion cracking
 - b) Erosion corrosion
 - c) Dealloying
 - d) Pitting corrosion

5. Clean steel is typically anodic when connected to corroded steel, and therefore will corrode more rapidly?
 - a) True
 - b) False
 - c) Not enough information for a specific answer

- d) Too many variables for a specific answer
6. Which of the following is not listed as a method of corrosion control by cathodic protection?
- a) Sacrificial cathodic protection system
 - b) Impressed current cathodic protection system
 - c) Electrochemical cathodic protection system
 - d) Galvanic cathodic protection system
7. Which of the following substances is not listed as a type of inhibitor?
- a) Chloride
 - b) Chromate
 - c) Hydroxide
 - d) Silicate
8. Which type of coating is widely used to provide galvanic corrosion protection to steel?
- a) Aluminum-rich coatings
 - b) Stainless steel coatings
 - c) Zinc-rich coatings
 - d) Chromium coatings

CHAPTER 3 – PAINT MATERIAL SPECIFICATIONS, PROCUREMENT AND TESTING

9. Which type of coating material specification is seldom, if ever, workable for paint products?
- a) Specification by performance
 - b) Specification by product or approved equal
 - c) Specification by product name/manufacture
 - d) Specification by qualified provider list
10. Certificates of compliance from raw material suppliers is usually not a concern?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
11. What two methods for determining drying time are most commonly referenced in specifications?
- a) Set-to-touch and dry through
 - b) Dry-to-recoat and dry through
 - c) Set-to-touch and dry hard
 - d) Dry-to-touch and dry hard

12. Which two coating properties are related?
- a) Hardness and flexibility
 - b) Impact resistance and flexibility
 - c) Adhesion and abrasion resistance
 - d) Hardness and adhesion

CHAPTER 4 – COATING TYPES AND CHARACTERISTICS

13. Which of the following is not listed as a mechanism by which binders form films?
- a) Oxidation
 - b) Solvent evaporation
 - c) Binder evaporation
 - d) Polymerization
14. Which type of natural resin is derived from the resinous secretions of a coccid insect?
- a) Shellac
 - b) Rosin
 - c) Copal
 - d) Glycerol
15. Which type of alkyd modification is commonly formulated as a universal primer?
- a) Phenolic modification
 - b) Epoxy modification
 - c) Vinyl modification
 - d) Silicone modification
16. Which of the following is superior in moisture and chemical resistance?
- a) Asphaltic coatings
 - b) Coal tar coatings
 - c) None of the above
17. What type of epoxy resin is most commonly used for industrial protective coatings?
- a) Phenolic
 - b) Polyamine
 - c) Midchain hydroxyl
 - d) Glycidal-ether
18. What types of urethane are most widely used for corrosion protection and atmospheric service?
- a) Polyols
 - b) Acrylics
 - c) Isocyanates
 - d) Polyesters

19. Animal oils are not recommended for interior use?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
20. What is the only sacrificial pigment used in paint manufacture?
- a) Zinc oxide
 - b) Aluminum flake
 - c) Zinc dust
 - d) Iron oxide
21. Which type of solvent is considered the least toxic of any of the solvent classes?
- a) Glycol ether
 - b) Aliphatic hydrocarbon
 - c) Aromatic hydrocarbon
 - d) Sulfate turpentine
22. What type of thermal spraying is used when coatings are needed to provide the utmost in corrosion protection against chemical or high temperature corrosion?
- a) Powder flame spraying
 - b) Electric arc spraying
 - c) Wire flame spraying
 - d) Plasma spraying
23. What is the most influential steel constituent affecting galvanizing?
- a) Carbon
 - b) Silicon
 - c) Phosphorous
 - d) Manganese
24. PVC backings are suitable for temperatures up to what?
- a) 60 °C
 - b) 40 °C
 - c) 135 °C
 - d) 80 °C



Answer Sheet for Painting New Construction & Maintenance Chapters 2 - 4
 TPDH-00035

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