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***** EXAMINATION *****

A RATIONAL APPROACH TO STEEL DECK CORROSION PROTECTION

1. **The value of steel decks is determined by:**
 - a) initial cost
 - b) life-cycle costs
 - c) overall performance
 - d) All of the above

2. **The present rational approach to corrosion protection is:**
 - a) a review of past practices
 - b) standards
 - c) observations
 - d) All of the above

3. **The type zinc-iron alloy requiring the least of coating is:**
 - a) A01
 - b) A25
 - c) A40
 - d) A60

4. **The AISC Code of Standard Practice stated:**
 - a) The shop coat of paint was for the life of the project only
 - b) The shop coat of paint was for the life of the building
 - c) The shop coat of paint was a temporary coating.
 - d) None of the above

5. **The problem with construction site tarpaulins covering steel was:**
 - a) rotting
 - b) lack of sunlight
 - c) condensation
 - d) All of the above

6. **In, the 1991 Steel Deck Institute stated:**
 - a) All steel to be used for roof deck shall be galvanized.
 - b) All steel to be used for roof deck shall be aluminized.
 - c) All steel to be used for roof deck shall be prime painted.
 - d) Any of the above

7. **The rate at which zinc corrodes when exposed to the atmosphere is:**
- a) determined by the duration and frequency of moisture content
 - b) determined by the rate at which the surface dries
 - c) determined by the extent of industrial pollution
 - d) All of the above
8. **A G-60 zinc coating will last:**
- a) 1 year
 - b) 5 years
 - c) 10 years
 - d) 1 to 10 years depending on the atmospheric environment
9. **In Figure 2, the zinc-coated sheet steel had the longest life in:**
- a) Altoona, PA
 - b) Brunot Island, PA
 - c) Sandy Hook, NJ
 - d) State College, PA
10. **The disadvantage of galvalume is:**
- a) poor ease of application
 - b) the need for free access to air
 - c) short life
 - d) excellent durability
11. **Zinc coating has the advantage over paint:**
- a) because it is more water resistant
 - b) because it is more effective corrosive protection
 - c) because it is sometimes more expensive
 - d) None of the above
12. **The choice of a paint system is determined by:**
- a) the weather
 - b) the air quality
 - c) the selection of insulation
 - d) None of the above
13. **The selection of a deck type for a specific application depends on:**
- a) the structural and environmental conditions
 - b) the architectural and environmental conditions
 - c) the mechanical and environmental conditions
 - d) None of the above
14. **After the steel deck is installed,**
- a) the architectural factors become important
 - b) the structural factors become important
 - c) the environmental factors become important
 - d) the mechanical factors become important

15. **Considering other design factors,**
- a) a balance must be made between low cost and the maintenance cost
 - b) the environment is the sole factor
 - c) the most corrosive-resistant material should be selected
 - d) None of the above
16. **If a roof leaks, the wet insulation should be:**
- a) heated and installed again
 - b) removed
 - c) dried
 - d) cleaned and dried
17. **Composite steel floor deck function is:**
- a) keeping the interior dry
 - b) resisting wind
 - c) resisting heat
 - d) resisting cold weather
18. **The finish on the steel composite deck shall be specified by:**
- a) the client
 - b) FEMA
 - c) OSHA
 - d) the designer
19. **The minimum galvanizing recommended is:**
- a) G20
 - b) G50
 - c) G60
 - d) G90
20. **Concrete provides:**
- a) an alkaline environment that discourages corrosion
 - b) an acidic environment that discourages corrosion
 - c) an alkaline environment that discourages corrosion
 - d) a phosphate environment that discourages corrosion

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*** ANSWER SHEET *** U189 A RATIONAL APPROACH TO STEEL DECK CORROSION PROTECTION	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
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