LEED v4 Building Design and Construction
Quiz #2
IP

ANSWERS

1. SS Prerequisite Integrative Project Planning and Design applies to which type of project?
   A. Hospitality
   B. Homes
   C. Schools
   D. Healthcare

2. Which of these must be incorporated into the SS Prerequisite Integrative Project Planning and Design Health Mission Statement?
   A. Basis of Design (BOD)
   B. Owner's Project Requirements (OPR)
   C. Triple Bottom Line (TBL)
   D. Life Cycle Assessment (LCA)

3. Which of these best describes the triple bottom line concept of sustainability?
   A. People, Planet, Prosperity
   B. Carbon Neutrality, Location, Wealth
   C. People, Planet, Profit
   D. Energy, Environment, Economy

4. Which of these should the project team include in the Integrative Project Planning and Design process? [Choose four]
   A. Owner's Project Requirements (OPR) Document
   B. Basis of Design (BOD) Document
   C. Preliminary Rating Goals
   D. Integrated Project Team
   E. Design Charrette

5. For SS Prerequisite Integrative Project Planning and Design what is the minimum number of professionals that need to be on the integrated project team?
   A. Four, in addition to the owner
   B. Four, in addition to the owner or owner's representative
   C. Three, in addition to the architect, builder, and owner
   D. Three, in addition to the architect, builder, and owner or owner's representative

6. Which of these is an important element to a comprehensive, integrative process? [Choose two]
   A. Performance feedback
   B. Analysis of System Costs
   C. Building Orientation and Location
   D. Iterative Cycle of Analysis

7. At what phase should the project team begin the Integrative Project Planning and Design process?
   A. Schematic Design
   B. Construction
   C. Occupancy
   D. Programming and Predesign
   E. Design

8. Which of these is an outcome of the initial Integrative Design Charrette? [Choose two]
   A. Cost of green strategies targeted
   B. LEED Certification level to achieve
   C. Completed health mission statement
   D. LEED credits to be targeted
   E. Renewable energy systems to be included in the design

9. SS Credit Integrative Process requires projects to analyze which of these systems? [Choose two]
   A. HVAC and Associated Controls
   B. Lighting and Lighting Controls
   C. Energy-Related
   D. Building Envelope
   E. Landscape Irrigation
   F. Water-Related

10. Which of these must be performed as a requirement of SS Credit Integrative Process? [Choose two]
   A. Whole Building Energy Simulation
   B. Simple box energy model
   C. Preliminary water budget analysis
   D. Baseline flush and flow fixture analysis
   E. Process water demand analysis

11. Which of these is a process water source? [Choose three]
   A. Water closet
   B. Urinal
   C. Lavatory
   D. Laundry
   E. Cooling tower
   F. Food steamer

12. Identify the phases of the integrative process. [Choose three]
   A. Predesign
   B. Discovery
   C. Design and Construction
   D. Schematic
   E. Occupancy, operations, and performance feedback
   F. Operations and maintenance

13. Which of these is a strategy for offsetting potable water use for a building's indoor flush and flow water demand? [Choose two]
   A. Captured rainwater
   B. Condensate from HVAC cooling equipment
   C. Well water
   D. Vegetated roof

14. Which of these design decisions can have a significant effect on reducing a building's energy demand? [Choose three]
   A. Insulation
   B. Building Orientation
   C. Window performance levels
   D. Interior wall color
   E. CO_2 Sensors

15. What is another name for simple box energy modeling analysis?
    A. Building-massing model energy analysis
    B. Whole Building Energy Simulation
    C. Performance Rating Method
    D. Cost Budget analysis

16. Which of these energy end uses contributes the most to the annual energy consumption of a commercial building?
    A. Domestic Hot Water
    B. Vent Fans
    C. Lights
    D. Space Heating and cooling

17. What factors does the typical energy consumption by end use for a project depend on? [Choose three]
    A. Building type
    B. Utility rates
    C. Occupancy
    D. Climate

18. If a project team uses an integrative process to design building systems and select equipment what benefit might they achieve?
    A. Increased building performance
    B. Reduced construction schedule
    C. Elimination of all change orders during construction
    D. Increased owner satisfaction

19. Which of these is critical for determining success in achieving performance targets, informing building operations, and taking corrective action when targets are missed?
    A. Metering
    B. Surveys
    C. Feedback
    D. Integrative process

20. Projects earning SS Credit Integrative Process must access potential strategies associated with which of these energy related systems? [Choose three]
    A. Solar Heat Gain Coefficient
    B. U-Values
    C. Lighting Levels
    D. Site Conditions
    E. Massing and orientation