

Quiz #6 - LEED Green Associate

GA02 – Pgs. 257-258

GA09 – Pgs. 31-50

GBLCC Section 4: Green Building Core Concepts and Application Strategies: Sustainable Sites

1. Which of these is found in significant quantity in rainwater runoff from roads, parking lots, and other hardscapes?
 - A. Sediments from soil
 - B. Chemicals
 - C. Petroleum
 - D. Fertilizer
 - E. Radon

2. Which LEED BD+C credit uses the BUG method?
 - A. SS Credit Site Development – Protect and Restore Habitat
 - B. EQ Credit Low-Emitting Materials
 - C. EQ Credit Daylight
 - D. SS Credit Light Pollution Reduction

3. LID is an abbreviation for which of these development methods used to minimize environmental impacts due to construction?
 - A. Low Impact Design
 - B. Light Industrial Design
 - C. Low Impact Development
 - D. Low Intensity Development

4. The LEED rating systems Sustainable Sites (SS) credit category addresses which of these project site design and maintenance topics? [Choose three]
 - A. Heat Island effect
 - B. Access to Quality Transit
 - C. Bicycle Facilities
 - D. Site Assessment
 - E. Rainwater Management

5. What type of project site landscaping method requires little or no irrigation?
 - A. Native and Adaptive
 - B. Intensive
 - C. Extensive
 - D. Xeriscaping
 - E. Integrated

6. What type of hardscape surface does not allow rainwater to infiltrate? [Choose two]
 - A. Open-grid paving used for a patio
 - B. Asphalt concrete parking lot
 - C. Stone walkway
 - D. Crushed stone with vegetation
 - E. Ground cover that uses nonnative vegetation

7. To prevent light pollution and earn SS Credit: Light Pollution Reduction what must be avoided? [Choose three]
- A. Up-lighting
 - B. Path lighting
 - C. Glare
 - D. Trespass
8. What is the best strategy for reducing heat island and managing rainwater runoff?
- A. Cistern
 - B. Vegetated roof
 - C. minimize site imperviousness
 - D. Wetlands
 - E. Mulch
9. To restore the solar reflectance of hardscape surfaces on a site what should building maintenance do?
- A. Paint it white
 - B. Clean the surfaces with chemicals
 - C. Power wash the surface to decrease the SR value
 - D. Power wash the surface to increase the SR value
10. What can rainwater collected on-site be used for? [Choose four]
- A. Landscape irrigation
 - B. Custodial uses
 - C. Swimming pools
 - D. Laundry
 - E. Toilet flushing
 - F. Cooling towers
11. Which of these strategies can help improve a sites design for rainwater management? [Choose two]
- A. Vegetated roof
 - B. Impervious surfaces
 - C. Low sloped roofs with gutters
 - D. Porous pavement
12. Which of these landscape features retain rainwater and slow the rate of runoff? [Choose three]
- A. Vegetated roof
 - B. Porous pavement
 - C. Ponds
 - D. Bioswales
 - E. Dry ponds
 - F. Rain gardens
13. What is the definition of Heat Island Effect?
- A. The ratio of the radiation emitted by a surface to the radiation emitted by a black body at the same temperature
 - B. An decrease in air temperature in a developed area compared with an undeveloped area
 - C. A measure of a material's ability to reject solar heat, as shown by a small temperature rise
 - D. An increase in air temperature in a developed area compared with an undeveloped area

14. Which of these are used to calculate the solar reflectivity index of a material? [Choose two]
- A. Reflectivity
 - B. Heat gain
 - C. U-factor
 - D. Emissivity
 - E. Solar heat gain coefficient (SHGC)
15. Which of these should project teams install for surfaces in order to reduce the heat island effect?
- A. Materials with a low SRI or a high SR
 - B. Materials with a low SRI or low SR
 - C. Materials with a high SRI or a low SR
 - D. Materials with a high SRI or a high SR
16. To achieve SS Credit: Heat Island Reduction what percentage of parking spaces must be under cover?
- A. 25%
 - B. 50%
 - C. 75%
 - D. 100%
17. For SS Prerequisite: Construction Activity Pollution Prevention to reduce pollution from construction activities what must the plan control? [Choose three]
- A. Airborne dust
 - B. Site disturbance within 40 feet of the project boundary
 - C. Soil erosion
 - D. Waterway sedimentation
 - E. Trees in place at the time of construction
18. What must the control plan for SS Prerequisite: Construction Activity Pollution Prevention conform to?
- A. 2012 U.S. Environmental Protection Agency (EPA) Construction General Permit (CGP)
 - B. 2012 U.S. Environmental Protection Agency (EPA) Construction General Permit (CGP) or local equivalent
 - C. 2012 U.S. Environmental Protection Agency (EPA) Construction General Permit (CGP) or local equivalent, whichever is more stringent
 - D. Local code
19. SS Prerequisite: Environmental Site Assessment applies to which type of projects? [Choose two]
- A. Healthcare
 - B. Hospitality
 - C. Retail
 - D. Core and Shell
 - E. Schools
20. If it is suspected that a project site is contaminated what is the next step the project team must take?
- A. Hire remediation experts
 - B. Contact the EPA for a site visit
 - C. Inform the owner
 - D. Conduct a Phase II Environmental Site Assessment
 - E. Remediate the site to meet local standards

21. At what time during the planning and design phase should project teams evaluate sustainable options to satisfy SS Credit: Site Assessment?
- After the initial review by the owner
 - Before design
 - Schematic design
 - Construction documents
22. Which of these should be included in the site survey for SS Credit: Site Assessment? [Choose two]
- Proximity to major sources of pollution
 - Monthly precipitation and temperature ranges
 - Building program and total occupancy
 - Local Land Trust Alliance
23. To achieve SS Credit: Site Development - Protect or Restore Habitat what type of vegetation must be used to restore previously disturbed areas? [Choose two]
- Adapted vegetation
 - Local wildflowers
 - Groundcover that permits infiltration of rainwater runoff
 - Native vegetation
 - Turf grass for playing fields
24. Which of these site elements could help projects to achieve SS Credit: Open Space? [Choose two]
- Garden space with benches
 - Pathway lighting
 - Open-grid paving parking lot
 - Playing field with turf grass
 - Trellis with vegetation
25. Which of these are concerns addressed by SS Credit: Rainwater Management? [Choose two]
- Restore land to its natural state
 - Conservation of greenfield area on the site
 - Reduce site runoff volume
 - Mimic natural hydrology of the site
26. Which of these are nonroof measures for achieving SS Credit: Heat Island Reduction?
- Replace paving areas with artificial turf
 - Trellises with vegetation
 - Install vegetated planters on the roof
 - Bioswales
 - Open-grid pavement system (25% unbound)
27. What unit is used to measure a luminaire's uplight when using the calculation method for SS Credit: Light Pollution Reduction?
- Footcandle
 - Candela
 - Lumen
 - Watts

28. What is light trespass?
- A. Waste light from building sites that produces glare, is directed upward to the sky, or is directed off the site.
 - B. Obtrusive illumination that is unwanted because of quantitative, directional, or spectral attributes.
 - C. The useful span of operation of a source of artificial light, such as bulbs.
 - D. A measurement of light striking a surface
29. Which of these credits is used to educate tenants in implementing sustainable design and construction features in their tenant improvement build-outs?
- A. SS Credit: Site Master Plan
 - B. SS Credit: Site Assessment
 - C. SS Credit: Joint Use of Facilities
 - D. SS Credit: Tenant Design and Construction Guidelines
30. Where must places of respite be located?
- A. Existing places on the hospital campus
 - B. Outdoors
 - C. Outdoors, or be located in interior conditioned spaces
 - D. Indoors
 - E. Within 200 yards of a functional building entrance
31. Exterior access used to achieve SS Credit: Direct Exterior Access and SS Credit: Places of Respite must be located how far from a smoking area?
- A. The Hospital campus cannot permit smoking anywhere on the site
 - B. Areas must be 200 yards of a smoking area
 - C. Areas must be located more than 100 feet from a smoking area
 - D. Areas must be within 25 feet of a smoking area
32. LEED BD+C Schools projects wanting to achieve SS Credit: Joint Use of Facilities can meet the requirements by sharing what types of building spaces in the school with the general public? [Choose two]
- A. Media center
 - B. Classrooms
 - C. Swimming pool
 - D. Gymnasium
 - E. Health clinic