

Quiz #5 - LEED Green Associate

GA09 – Pgs. 9-11 & Pgs. 12-30

GA02 – Pgs. 55-57

GBLCC Section 4: Green Building Core Concepts and Application Strategies: Location and Transportation

1. If building occupants can take public transportation, ride bicycles, or walk to the building what environmental impact associated with commuting are they helping to reduce?
 - A. Greenhouse gas emissions
 - B. Carbon emissions
 - C. Loss of greenfields
 - D. Loss of land due to increased need to develop more roads

2. How does the LEED rating system address project location and design? [Choose three]
 - A. Location
 - B. Transportation
 - C. Community
 - D. Neighborhood pattern and design
 - E. Existing infrastructure

3. What design approach can help to limit the amount of land covered by buildings, pavement, or infrastructure and make more efficient use of existing space?
 - A. Brownfield remediation
 - B. Infill
 - C. Sprawl
 - D. Urbanizing

4. What is the best type of site to build a project on? [Choose two]
 - A. Brownfield
 - B. Greenfield
 - C. Previously developed
 - D. Previously undeveloped

5. What minimum score must a green vehicle achieve on the American Council for an Energy Efficient Economy (ACEEE) annual vehicle rating guide to qualify for LT Credit: Green Vehicles?
 - A. 40
 - B. 45
 - C. 55
 - D. 70

6. What strategy can help projects to promote alternatives to single-occupant car commuting and reduce the environmental impact due to parking?
 - A. Limit parking on the project site
 - B. Provide an alternative-fuel refueling station on the project site
 - C. Designate preferred spaces for fuel-efficient vehicles in the parking area
 - D. Build a parking structure that can accommodate 50% of the total building occupants

7. Which of these services cannot contribute to LT Credit: Surrounding Density and Diverse Uses?
 - A. Fire Station
 - B. Church
 - C. Mini Storage Facility
 - D. Library
 - E. Recreation Center Swimming Pool
 - F. Bowling Alley

8. The Location and Transportation (LT) category rewards projects for decisions about building location in which of these design decisions? [Choose three]
- A. Using a compact development approach
 - B. Providing connection to amenities
 - C. Providing open space
 - D. Having access to alternative transportation
 - E. Restoring the site with native and adaptive vegetation
9. Which of these strategies can help to promote bicycling to work?
- A. Access to a nearby bike shop
 - B. Bike racks placed within ¼-mile of the building and public transit station
 - C. Provide all employees with a bike lock
 - D. Bicycling networks
10. What is considered a low target vehicle speed for bicyclists using public streets?
- A. 30 mph
 - B. 15 mph
 - C. 25 mph
 - D. 10 mph
11. What must be included when determining the total vehicle parking capacity for a project? [Choose three]
- A. New and existing surface parking spaces
 - B. Motorbike spaces
 - C. On-street (parallel or pull-in) parking spaces on public rights of way
 - D. New and existing garage or multilevel parking spaces
 - E. Any off-street parking spaces outside the project boundary that are available to the building's users
12. How is preferred parking determined?
- A. Preferred parking spaces have the shortest walking distance to the main entrance of the project, including spaces designated for people with disabilities.
 - B. Preferred parking spaces have the shortest walking distance to the main entrance of the project, exclusive of spaces designated for people with disabilities.
 - C. Preferred parking spaces have the shortest walking distance any functional entrance of the project, including spaces designated for people with disabilities.
 - D. Preferred parking spaces have the shortest walking distance any functional entrance of the project, exclusive of spaces designated for people with disabilities.
13. What type of LEED BD+C project is required to fulfill the Prerequisite: Integrative Project Planning and Design?
- A. Hospitality
 - B. Retail
 - C. Healthcare
 - D. Schools
 - E. New Construction
14. What should be included in the LEED action plan for the prerequisite: Integrative Project Planning and Design? [Choose three]
- A. Number of LEED professionals on the design team
 - B. LEED certification level to pursue
 - C. LEED credits to achieve
 - D. Prerequisites that the project will not be able to achieve
 - E. Team member responsibilities for meeting LEED requirements

15. At what phase in the project planning should project teams address the requirements for the prerequisite: Integrative Project Planning and Design?
- A. Programming
 - B. Programming and pre-design
 - C. Schematic design
 - D. Pre-schematic design
16. Which of these describes triple bottom line values? [Choose three]
- A. Economic
 - B. Ecological
 - C. Environmental
 - D. Social
 - E. Shared
17. What type of design and decision making approach should project teams use for building design, construction and operational strategies?
- A. Interpretive
 - B. Interdisciplinary
 - C. Isolated
 - D. Integrated
 - E. Informational
18. Who should attend the preliminary LEED meeting for the prerequisite: Integrative Project Planning and Design?
- A. Owner and a minimum of four key project team members
 - B. Owner and a maximum of four key project team members
 - C. Owner or owner's representative and a maximum of four key project team members
 - D. Owner or owner's representative and a minimum of four key project team members
19. At what phase is it preferable that the project team conduct a design charrette for the prerequisite: Integrative Project Planning and Design?
- A. Before construction documents
 - B. After construction documents
 - C. At 50% construction documents
 - D. Before schematic design
20. For projects to achieve the credit: Integrative Process what systems must they analysis prior to the completion of the construction documents? [Choose two]
- A. Fire Protection
 - B. Energy-Related
 - C. Domestic Hot Water
 - D. Water-Related
 - E. Building Envelope
21. What is a strategy project teams could use to help reduce the amount of electricity used by a building?
- A. Limit the number of employees in the building at one time
 - B. Provide cell phone charging stations
 - C. Reduce demand from plug and process loads
 - D. Paint the interior walls and ceiling white

22. For the credit: Integrative Process in the discovery phase what type of energy modeling analysis must project teams complete?
- A. Open box
 - B. Simple box
 - C. Whole building
 - D. Integrative
23. A LEED BD+C: Retail project has assembled a team and is performing the requirements for earning the credit: Integrative Process. Which of these are nonpotable water supply sources found on-site? [Choose three]
- A. Captured rainwater
 - B. Recycled graywater
 - C. Well water
 - D. Cooling tower condensate
 - E. Municipally supplied nonpotable water
24. What type of equipment must be considered when estimating the total process water demand volume for a building? [Choose three]
- A. Kitchen
 - B. Toilets
 - C. Urinals
 - D. Cooling tower
 - E. Laundry
 - F. Irrigation
25. Which of these strategies could help a project to reduce the building's indoor water demand volume and potentially earn LEED credits? [Choose three]
- A. Low flow toilets and Waterless urinals
 - B. Metered lavatory faucets
 - C. Captured graywater used for flushing toilets
 - D. ENERGY STAR dishwasher

