

ANSWERS

Quiz #1 - LEED Green Associate

LCCG Section 1: Introduction to Green Buildings and Communities

1. Measured performance areas of a Green Building could include which of these? [Choose five]
 - A. Energy Use
 - B. Operating Costs
 - C. Water Use
 - D. Occupant Satisfaction
 - E. Carbon Emissions
 - F. Sustainability
2. When designing a green building to address environmental, financial, and occupant satisfaction issues what type of approach to sustainable design should the team use?
 - A. Linear
 - B. Integrated
 - C. Isolated
 - D. Collaborative
3. The green building process can be applied to which of these? [Choose five]
 - A. Buildings
 - B. Materials
 - C. Sites
 - D. Interiors
 - E. Operations
 - F. Communities
4. The extraction, manufacturing, and transporting of building materials can contribute significantly to which of these environmental impacts?
 - A. Greenhouse Gas Emissions
 - B. Global Warming
 - C. Climate Change
 - D. Land Erosion
5. Green building pursues solutions that represent a healthy and dynamic balance between which of these areas? [Choose three]
 - A. Environmental
 - B. Recreational
 - C. Economic
 - D. Social
6. The triple bottom line concept incorporates a long-term view for assessing potential effects and best practices for what resources? [Choose three]
 - A. Planet
 - B. Property
 - C. Profit
 - D. People
 - E. Products
7. The green building process and LEED rating systems first focused on environmental metrics but the list is expanding to encourage indicators in which of these other areas? [Choose two]
 - A. Social justice
 - B. Site selection
 - C. Public transportation
 - D. World Hunger
 - E. Public health

8. Studies conducted by the U.S. Environmental Protection Agency (EPA), found that people in the United States spend, on average, what percentage of their time indoors?
- A. 25%
 - B. 50%
 - C. 75%
 - D. 90%
9. Which of these strategies describes the main principles of passive building design?
- A. Capturing wind and rain for natural cooling
 - B. Storing renewable energy to use for lighting, heating, and cooling
 - C. Capturing sunlight and stormwater for natural lighting and irrigation
 - D. Capturing sunlight and wind for natural lighting, heating, and cooling
 - E. Using inexpensive fossil fuels for energy use and transportation
10. Buildings and land-use are responsible for contributing to climate change due to which of these environmental impacts?
- A. Global Gas Emissions
 - B. Greenhouse Gas Emissions
 - C. Carbon Emissions
 - D. Carbon Offsets
11. Which of these alternatives to single vehicle driving could help to significantly reduce carbon emissions from transportation? [Choose three]
- A. Public transportation
 - B. Walking
 - C. Bicycling
 - D. Carpooling
12. When selecting a location for a new green building which of these factors should the design team consider? [Choose three]
- A. Climate
 - B. Nearby recreational facilities
 - C. Availability of Parking
 - D. Existing roads and transit
 - E. Cultural history and traditions
13. The cumulative effect of conventional building practices has profound implications for human health, the environment and the economy. What term is often used to refer to the concept of sustainability and sustainable design?
- A. Triple Crown
 - B. Triple Bottom Line
 - C. Triple Top Line
 - D. Triple Economic Line
14. Which of these activities contributes to greenhouse gas emissions and climate change? [Choose three]
- A. Using electricity to heat and cool buildings
 - B. Purchasing Conventional Toilets and Urinals
 - C. Driving to work in automobiles
 - D. Landfills

15. Which of these statements best defines building commissioning?
- A. Systematic improvements in the performance of a building and its energy systems
 - B. A system used to measure energy consumption associated with buildings
 - C. Verification after construction that the structure and its systems and subsystems meet project requirements as intended and designed
 - D. A rating that indicates the efficiency of air filters in the buildings mechanical system
16. Which of these should be considered by the design team when addressing the social context of a project?
- A. Climate
 - B. Roads and transit availability
 - C. Precipitation
 - D. Cultural history and traditions
17. What does it mean for a project to be net-zero energy?
- A. The project uses no grid source energy
 - B. The project uses only energy that they produce on site
 - C. The project uses no more energy from the grid than they generate on site
 - D. The project spends no money on grid source energy
18. Which of these strategies could help a project to achieve a goal for net-zero waste? [Choose three]
- A. Installing a graywater system
 - B. Recycling
 - C. Reusing
 - D. Incinerating trash
 - E. Composting
19. Which of these describe the green building process? [Choose three]
- A. Interdisciplinary
 - B. Linear
 - C. Isolative
 - D. Iterative
 - E. Collaborative
20. The USGBC provides rating systems for what types of buildings? [Choose four]
- A. Neighborhoods
 - B. Parking Garages
 - C. Houseboats
 - D. Offices
 - E. Schools
 - F. Retail