Quiz #9 - LEED Green Associate

**ANSWERS**

GA02 – Pgs. 467-472

GA09 – Pgs. 86-106

GBLCC Section 4: Green Building Core Concepts and Application Strategies: Materials and Resources

1. Which of these framing approaches by design use less material than conventional framing without compromising performance? [Choose Two]
   1. Structurally Integrated Panels (SIP)
   2. Studs spaced at 16 instead of 12 inches on center
   3. Studs spaced at 24 instead of 16 inches on center
   4. Structural Insulated Panels (SIP)
2. What is the first step in a successful waste management policy?
   1. Recycle all possible construction materials.
   2. Reuse existing materials.
   3. Reduce the total quantity of waste.
   4. Specify recyclable materials.
   5. Determine the embodied energy of the product.
3. A project generates 100 tons of waste throughout construction. 50 tons are collected on-site and sent to a sorting facility with a facility-wide diversion rate of 60%. 40 tons are separated on-site and sent directly to recyclers. The final 10 tons are incinerated off-site. What percentage of waste does LEED consider to have been recycled?
   1. 40%
   2. 50%
   3. 70%
   4. 80%
4. A building material that is made from recycled soda bottles contains ?
   1. Post-industrial recycled content
   2. Post-consumer recycled content
   3. Pre-consumer recycled content
   4. Pre-fabricated recycled content
5. LEED defines regional materials as originating within ?
   1. 100 miles of the project site
   2. 250 miles of the project site
   3. 500 miles of the project site
   4. 750 miles of the project site
6. Ongoing consumables are consumed during which of the following?
   1. Design only
   2. Construction only
   3. Occupancy only
   4. Both construction and operation
   5. Construction and at the building’s end of life
7. Which environmentally preferable attributes of materials does LEED recognize [Choose Three]?
   1. Are harvested and manufactured regionally
   2. Contain recycled content
   3. Are sourced from developing countries
   4. Are salvaged
   5. Offer future customization options
8. Which of these is considered a pre-consumer recycled content material?
   1. Cardboard boxes
   2. Soda cans
   3. Milk jugs
   4. Wood chips from a mill
9. What attribute should recycled materials have in order to take advantage of synergies with regional materials?
   1. Low VOCs
   2. Remanufactured regionally
   3. More durability
   4. Lower life-cycle costs
10. At a minimum, what materials must a recycling program include? [Choose three]
    1. Metals
    2. Food waste
    3. Glass
    4. Paper
    5. Light Bulbs
11. MR Credit BPD&O – Sourcing of Raw Materials what is the referenced standard for wood products?
    1. Green-e
    2. International Organization of Standards document, ISO 14021
    3. Forest Stewardship Council
    4. Sustainable Forestry Council
12. For MR Credit Building Life-Cycle Impact Reduction what is excluded from the calculation for building and material reuse? [Choose Two]
    1. Structural Flooring
    2. Hazardous material
    3. Window Assemblies
    4. Non-structural roofing material
13. One of the best approaches for reducing the amount of new material needed for a project is to?
    1. Locate the project in an urban area
    2. Reuse existing previously-occupied buildings
    3. Purchase products made from rapidly renewable sources
    4. Use materials containing recycled content
14. Which of these materials cannot contribute to earning MR Credit 2 Construction Waste Management? [Choose Two]
    1. Concrete
    2. Plastic
    3. Excavated soil
    4. Carpet
    5. Land-clearing debris
15. Which of the following salvaged materials contribute to achieving MR Credit Building Life-Cycle Impact Reduction? [Choose two]
    1. Elevators
    2. HVAC equipment
    3. Beams
    4. Decorative items
    5. Cabinets
16. If the value is not known, how is the percentage of a material that is part of a building product assemble determined?
    1. Weight
    2. Cost or square footage
    3. Cost
    4. Square footage
17. Which of the following LEED Materials and Resources credits requires a Chain of Custody (COC) document?
    1. Construction Waste Management
    2. Recycled Content
    3. Rapidly Renewable Materials
    4. Certified Wood
18. What can a project assume for the default recycled content for steel products where no recycled content information is available?
    1. 25% preconsumer
    2. 25% postconsumer
    3. 50% postconsumer
    4. 50% preconsumer
19. For MR Credit BPD&O –Material Ingredients, Option 2: Material Ingredient Optimization, products that are certified Cradle to Cradle v2 Platinum are valued at what percentage?
20. 25%
21. 100%
22. 150%
23. 200%
24. How can projects earn MR Credit Construction and Demolition Waste? [Choose two]
25. Divert 50% of the total construction and demolition material from at least two material waste streams
26. Divert 50% of the total construction and demolition material from at least three material waste streams
27. Do not generate more than 2.5 pounds of construction waste per square foot of the building’s floor area
28. Do not generate more than 5.0 pounds of construction waste per square foot of the building’s floor area