

Chapter 01 - Introduction to Green Building

True / False

1. The extraction of resources to construct buildings is part of green building but has little to no impact on our quality of life.

a. True

b. False

ANSWER: False

2. A building that could be considered green in one location may not be green in another.

a. True

b. False

ANSWER: True

3. Because CFL bulbs contain mercury that is harmful to humans and the environment, they should not be used to replace incandescent light bulbs.

a. True

b. False

ANSWER: False

4. Green building does not impose a particular design or construction method, nor does it generally appear distinctive from standard construction.

a. True

b. False

ANSWER: True

5. Although a factor to consider, the location of a building is not as important as its design.

a. True

b. False

ANSWER: False

Multiple Choice

Green building is an effort to build ____ .

6. New Question

a. responsibly and sustainably

b. inexpensively and uniformly

c. with cutting edge technology and resources

d. structures that don't require fossil fuels

ANSWER: a

A green building should maintain a constant temperature ____ during the winter.

7. New Question

- a. of 68°F
- b. between 76°F and 80°F
- c. of 80°F
- d. between 69°F and 75°F

ANSWER: d

For a temperature of about 68 °F, most people find a relative humidity ____ to be acceptable.

8. New Question

- a. less than 30%
- b. between 30% and 70%
- c. at least 75%
- d. between 75% and 80%

ANSWER: b

Constant exposure to polluted air in buildings is a cause of many health disorders, a condition sometimes called ____ .

9. New Question

- a. chronic fatigue syndrome
- b. autoimmune disease
- c. sick building syndrome
- d. chronic obstructive pulmonary disorder

ANSWER: c

____ energy is the sum of all the energy used to construct a building from harvest to manufacture to installation.

10. New Question

- a. Process
- b. Embodied
- c. Functional
- d. Generated

ANSWER: b

Many common electronic devices never fully turn off. If not disconnected from the power supply, they continue to draw electricity even when switched off. This hidden use of energy is called ____ .

11. New Question

- a. operational energy
- b. minimal loads

- c. embodied energy
- d. phantom loads

ANSWER: d

Which of the following locations would be the best choice for a green building site?

12. New Question

- a. In close proximity to existing infrastructure
- b. On a site that has never been previously built on
- c. In areas that have cultural significance
- d. On undeveloped land away from highly populated areas

ANSWER: a

A cold climate design would most likely include ____ .

13. New Question

- a. minimal surface area
- b. placement of windows to prevent direct illumination
- c. wind traps
- d. cooking spaces isolated from sleeping spaces

ANSWER: a

A hot, humid climate design would most likely include ____ .

14. New Question

- a. the long side facing sunward
- b. north-opening U-shaped buildings with courtyards
- c. partially submerged structures
- d. minimal windows on the east and west sides

ANSWER: d

A temperate climate design would most likely include ____ .

15. New Question

- a. heavily insulated windows and floors
- b. massive walls
- c. most windows on the sunward side
- d. raised structures

ANSWER: c