Fundamentals of Building Green Practice Test Part A

Part A - Sustainability

1. What is the best definition of high-performance	e buildings? High performance buildings:
are efficient, healthy, and environmentally responsible.	provide a low-energy building no matter the cost.
use efficient materials sourced from all over the world.	improve the health of the occupants but not the workers.
2. Most people incorrectly believe that high-perfo than conventional buildings. However, what could project?	d actually add significant first costs to a green
Installing solar panels	Taking advantage of daylight
Designing the envelope to have south facing windows	Providing information about the building's mechanical systems to the building's operators
3. Current market trends show the construction in	ndustry moving towards:
high-performance buildings	high-rise buildings
traditionally constructed buildings	buildings with less mechanical ventilation
4. What is the best definition of a green job?	
A career in the roofing industry.	A career in development of environmental policy.
A career with an architecture firm that focuses on retrofitting buildings.	A career-track job that helps enhance or preserve environmental quality.
5. Jobs in the energy efficiency industry include:	
Installation of smart lighting	Insulating walls and ceilings
Sealing duct leaks in HVAC systems	All of the above
6. Of the millions of people working in clean energy which industry?	gy in the U.S., the vast majority of jobs are in
Renewable energy generation	Energy efficiency
Clean distribution	Electric vehicles

Gases such as CO2 and methane in the atmosphere that tr	O3, which makes up the ozone layer.
the sun's heat.	Gases, which are created by sunlight hitting the ocean, k
Gases in the atmosphere such as nitrogen, that allow heat escape.	the planet warm.
8. Weather is the everyday state of the atmosphe	re, and climate is the average weather pattern of
one place over a period of time. True	
False	
9. Climate change refers to:	
The increase in Earth's temperature over millions of years.	The increased use of hydrofluorocarbons causing a hole the ozone layer.
The increase in greenhouse gases in Earth's atmosphere.	Long-term changes in Earth's climate system resulting in
	weather patterns.
10. What is an environmental benefit of construc More locally sourced materials mean fewer emissions from An increase in availability of office space, increasing the de Better air quality surrounding the building due to off-site sol	transportation. nsity of the area.
An increase in availability of office space, increasing the de Better air quality surrounding the building due to off-site sol More impervious surfaces so rainwater can't infiltrate the gr	transportation. nsity of the area. ar energy. ound and cause flooding.
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14	. What is the Acid Rain Program?
	A program focused on monitoring atmospheric gases that result in acid rain. A cap-and-trade program created to reduce the occurrence of acid rain.
	A program dedicated to the human health effects of acid rain A program focused on regulating clean-up for areas affected by acid rain.
15	. Why is the Montreal Protocol significant?
	It brought nations together to phase out harmful chemicals affecting the ozone layer.
	It was the first example of an international energy code to reduce fossil fuel usage.
	It set aside funds to help with future environmental disasters across North America.
	It was the precursor to the modern-day Environmental Protection Agency (EPA).

ndamentals of Building Green Practice Test Part A			
rt A – Sustainability continued			
16.	Which of the following best defines mitigation?		
	Making green building standards more widespread Creating more energy efficient buildings		
	Reducing the cost of construction Designing buildings to be resilient		
17.	Which of the following is an example of adaptation?		
	Constructing and operating buildings to be resilient to heavy Improving codes and policies that result in less energy storms.		
	Designing energy efficient buildings. Alleviating the effects of climate change by designing net zero		
	buildings.		
18.	Buildings are responsible for approximately% of the energy used in the U.S.		
	22%		
	35%		
	40%		
	45%		
19.	What is considered "clean" energy?		
	Energy sources that do not emit greenhouse gases.		
	Energy sources that emit greenhouse gases.		
	Energy generated from coal.		
	Energy generated from natural gas.		