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Student Preview: Edit Mode is: **ON** ?

Assessments > **Preview Test: Pre-Test Research, Fall 2016**

Preview Test: Pre-Test Research, Fall 2016

Test Information

Description You are invited to participate in the research study being conducted to quantify knowledge gained by the students in XE 388 course about sustainability and its implementation across various systems. In this study, you will be asked to take a pre-test at the beginning-of-semester and a post-test at the end-of-semester. Your participation in this study is voluntary. Your identity will be kept confidential and will not be shared with anyone while disseminating the results. The results of this research work may help us revise course modules to make them more effective and will benefit future students

Instructions The test consists of 20 multiple choice questions from six modules (background and sustainability concept, water and waste systems energy systems, agriculture and food systems, sustainability tools, life cycle assessment and building and infrastructure systems) covered in the XE 388 course. It will take approximately 10-15 minutes to complete the test. Your performance in the test will not affect your grades in anyway. However, if you complete the pre-test at the beginning-of-semester and the post-test at the end-of-semester, you will earn extra credit of a 1% increase in your quiz grades. The pre-test will be available on Blackboard from August 23th (7:00 P.M.) to August 29th (3:00 P.M.).

Timed Test This test has a time limit of 25 minutes. You will be notified when time expires, and you may continue or submit.
Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain. *[The timer does not appear when previewing this test]*

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion Once started, this test must be completed in one sitting. Do not leave the test before clicking **Save and Submit**.

Question Completion Status:

Save and Submit

QUESTION 1

1 points

Save Answer

My Major:

Path: p Words:0

QUESTION 2

1 points

Save Answer

My minor:

Path: p Words:0

QUESTION 3

1 points

Save Answer

Anticipated graduation date:

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[YouTube] [f_x] [Mashups] [Text Color] [Background Color] [Image] [Table] [Grid] [HTML CSS]

Path: p Words:0

QUESTION 4

1 points

Save Answer

Upon graduation, I would like to work as:

T T T T Paragraph Arial 3 (12pt) [List Icons] [Text Icons] [Image Icons]

[Cut] [Copy] [Paste] [Find] [Undo] [Redo] [Align Left] [Align Center] [Align Right] [Justify] [Bulleted List] [Numbered List] [Link] [Unlink] [Decrease Indent] [Increase Indent] [Checkmark]

[YouTube] [f_x] [Mashups] [Text Color] [Background Color] [Image] [Table] [Grid] [HTML CSS]

Path: p Words:0

QUESTION 5

1 points

Save Answer

I am taking this course because:

- Need the credits
- Interested in topic
- Class fits schedule
- Heard course was fun/easy

QUESTION 6

1 points

Save Answer

A PV panel is more effective converting sunlight into electricity when

- a. The panel angle is adjusted to face the light all day.
- b. The colored acetates are placed on the cell.
- c. The cell is cooled.
- d. The long dimension is oriented northward.
- e. Don't know

QUESTION 7**1 points****Save Answer**

Companies used the TBL for their sustainability strategy. This strategy considers the company's

- i. Social responsibility
 - ii. Shareholders' returns
 - iii. Corporate leadership accessibility
 - iv. Environmental responsibility
 - v. "Economic well-being of developing countries" responsibility
- i,ii, and iii
 - i,ii, and iv
 - i, ii, and v
 - i,iii, and iv
 - Don't know

QUESTION 8**1 points****Save Answer**

An example of reduction in overall water quality due to an increase in the concentration of chemical nutrients is

- a. Xeriscaping
- b. Eutrophication
- c. Denitrification
- d. Osmosis
- e. Don't know

QUESTION 9**1 points**[Save Answer](#)

Appropriate technology in less developing countries is likely to use

- a. Imported raw materials
- b. Large scale production techniques
- c. Existing skills and local resources
- d. Don't know
- e. Mechanization to replace labor

QUESTION 10**1 points**[Save Answer](#)

Burning of which of the following fuels produces the least amount of carbon dioxide per unit of energy?

- a. Coal
- b. Oil
- c. Natural gas
- d. All of these produce the same amount of carbon dioxide
- e. Don't know

QUESTION 11**1 points**

Save Answer

EIA stands for

- a. Ecological Impact Assessment
- b. Environmental Impact Audit
- c. Environmental Impact Assessment
- d. Environmental Impact Area
- e. Don't know

QUESTION 12**1 points**

Save Answer

If the velocity of wind is doubled, then the kinetic energy in the wind increase by a factor of

- a. 10 times
- b. 8 times
- c. 2 times
- d. 6 times
- e. Don't know

QUESTION 13**1 points**

Save Answer

LEED stands for

- a. Leadership in Ecological and Environmental Design
- b. Leadership in Energy and Environmental Design
- c. Leadership in Efficiency and Environmental Design
- d. Latent Energy Efficiency Dividend
- e. Don't know

QUESTION 14**1 points**[Save Answer](#)

Minimum amount of clean water needed for a person to barely survive as given by WHO Basic Water Guidelines:

- a. 5 L/person/day
- b. 10 L/person/day
- c. 20 L/person/day
- d. 25 L/person/day
- e. Don't know

QUESTION 15**1 points**[Save Answer](#)

Most groundwater withdrawn in the United States is used for

- a. Industry
- b. Agriculture
- c. Drinking water
- d. Mining
- e. Don't know

QUESTION 16**1 points****Save Answer**

Which of the following is NOT a step for conducting Life cycle analysis?

- a. Inventory analysis
- b. Impact analysis
- c. Improvement analysis
- d. Safety stock analysis
- e. Don't know

QUESTION 17**1 points****Save Answer**

Which of the following is NOT a LEED credit category

- a. Sustainable sites
- b. Materials and resources
- c. Non-renewable resources
- d. Water efficiency
- e. Don't know

QUESTION 18**1 points**[Save Answer](#)

Which of the following identifies the three factors influencing the degree of human impact on the environment ?

- a. Pricing, age and technology
- b. Pollution, affordability and technology
- c. Population, affluence and technology
- d. Pollution, social status and trading
- e. Don't know

QUESTION 19**1 points**[Save Answer](#)

Which of the following are types of pollutants are NOT found in groundwater?

- a. Nitrates
- b. Inorganic ions
- c. Synthetic organic chemicals
- d. Ozone
- e. Don't know

QUESTION 20**1 points**[Save Answer](#)

What is the name of the primary federal agency that oversees environmental regulation in the United States

- a. Environmental Protection Agency (EPA)
- b. Department of Health, Environment, and Safety (DHES)
- c. National Environmental Agency (NEA)
- d. National Environmental Agency (NEA)
- e. Don't know

QUESTION 21**1 points****Save Answer**

The three E's of sustainability are

- a. Environment, Economic, Etiquette
- b. Environment, Economic and Equity
- c. Environment, Etiquette, and Economic
- d. Environment, Ecology, and Economic
- e. Don't know

QUESTION 22**1 points****Save Answer**

The term "Green Revolution" is used to describe the

- a. Increase in number of traditional farms.
- b. Heavy reliance on manual labor in agriculture.
- c. Decrease the use of modern farm machinery.
- d. Increase in grain yield due to improved genetics and inputs.
- e. Don't know

QUESTION 23**1 points****Save Answer**

The goal of Life cycle assessment is to

- a. Understand profitability of a product over the course of product life
- b. Understand social impacts over the course of product life
- c. Understand environmental impacts over the course of product life
- d. Understand technology impacts over the course of the product life
- e. Don't know

QUESTION 24**1 points**[Save Answer](#)

Sustainable agriculture is characterized by the use of more

- a. Fossil fuels
- b. Pesticides
- c. On-farm inputs
- d. Chemical fertilizers
- e. Don't know

QUESTION 25**1 points**[Save Answer](#)

Approximately what percentage of Earth's water is fresh water

- 6
- 9
- 3
- 12
- Don't know

Save All Answers

Save and Submit