

What is not an example of human capital? a) Labor b) Intelligence c) Culture d) Cash

Cash

In order to continue to minimize the thickness of consumer electronics some sacrifices to green engineering principles have been made. Some batteries are now glued into the bodies instead of being mounted with conventional fasteners, this is an example of a poor decision related to which of the 12 principals? a) meet need, minimize excess b) design for separation c) prevention instead of treatment d) maximize efficiency

design for separation

What is a secondary pollutant? a) harmful chemical emitted directly into the air by natural events or human activities b) harmful chemical formed in the atmosphere when a primary air pollutant reacts with normal air components or other air pollutants c) interaction between ground water and surface water

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The aspects of a sustainable community include all except: a) resilient: adaptable to environment change, natural hazard mitigation b) populated: stable death and birth rates c) green: efficient land, water and air usage d) livable: stable economy, affordable housing

populated: stable death and birth rates

Which of the following is true about toxicology: a) most substance are toxic at some level b) exposure pathway is irrelevant to effect of poison c) toxicity can easily be measured by devises and machines d) acute exposure occurs over long periods of time and the effect could take years to be realized

most substance are toxic at some level

Which of these is not an example of natural capital? a) wetland water filtration in Louisiana b) sand dune storm barriers in OBX c) consumption of bottled water

consumption of bottled water

Which of the following is not part of the triple bottom line? a) economy b) society c) environment d) transportation e) performance	transportation
What is the largest consumer of water? a) agriculture b) electricity and gas c) households d) manufacturing	agriculture
Under the Clean Air Act, EPA is required to set forth National Ambient Air Quality Standards (NAAQS) for the six most common air quality pollutants. Which pollutant does not apply? a) Carbon Monoxide b) Sulfur Dioxide c) Carbon Dioxide d) Ozone	Carbon Dioxide
Which of the following is not a green engineering principle? a) output pulled rather than input pushed b) renewable rather than depleting c) maximize efficiency d) follow the triple bottom line	follow the triple bottom line
Which is a phase of the life cycle analysis? a) extraction b) manufacturing c) use d) all of the above	all of the above
Using hazardous nuclear fuel that generate harmful wastes is a good example of using Inherent rather than Circumstantial engineering principles. True or False?	False
Which of these industries produces the most waste water? a) manufacturing b) transit c) agriculture d) marketing	agriculture
Which of the following is not one of the 12 Principle of Green Engineering? a) Design for Commercial "Afterlife" b) Conserve Complexity c) Circumstantial Rather than Inherent d) Minimize Material Diversity	Circumstantial Rather than Inherent
T/F: Capacity factor is directly dependent on efficiency.	False
Which of the following is not a principle of Green Engineering? a) minimize excess b) renewable rather than depleting c) inherent rather than circumstantial d) treatment instead of prevention	treatment instead of prevention

T/F: Efficiency is energy in over energy out.	False
T/F: Industrial Symbiosis occurs when manufacturing and service businesses work together to enhance environmental and economic performance in managing resources.	True
IPAT stands for: a) Impact Population Affluence and Technology b) Impact Pollution Affluence and Techonology c) Influence Population and Technology d) Impact Population Affluence and Time	Impact Population Affluence and Technology
Which of the following is not a type of load-carrying building? a) internal load dominated b) envelope load dominated c) shear load dominated	shear load dominated
T/F: Point-source pollution refers to diffuse contamination that does not originate from a single discrete source such as storm water runoff or runoff from an agricultural field or forest	False
Which of these factors doesn't decrease smog? a) rain b) high temperature c) snow d) hills e) winds	high temperature and hills
What factor does not affect Toxicology? a) concentration b) exposure pathway c) species d) geography	geography
Which of the following are natural capital? a) wetlands b) forests c) atmosphere d) all of the above e) none of the above	all of the above
Which is not a green engineering principle? a) integrate material and energy flows b) conserve complexity c) inherent rather than circumstantial d) reducing cost to reduce waste	reducing cost to reduce waste
T/F: Ozone can be both harmful and beneficial	True
T/F: Extraction, transportation, manufacture, use, disposal/recycle are all stage in the life cycle.	False
Which is not one of the three P's of the EPA 3P? a) People b)	Process

Planet c) Profit d) Process

T/F: CO₂ is the greenhouse gas produced most (by mass) in the world.

True

What can green engineering improve to reduce impact? a) technology b) affluence c) population

technology

T/F: Green engineering requires the environmental impacts to be considered initially as a design criteria.

True

T/F: Renewable energy sources make up the largest percentage of the United States energy production.

False

T/F: Efficiency is the (Energy In)/(Energy Out in Usable Form)

False

T/F: Capacity Factor is the (Total Energy Produced per Time)/(Total Energy at Full Capacity)

True

T/F: Refrigerator size and efficiency have decreased over the past 30 years.

False

Which of the following vehicles has the greatest amount of CO₂ emissions per passenger mile? a) SUV b) train c) car d) airplane

SUV
