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MULTIPLE CHOICE QUESTION BANK

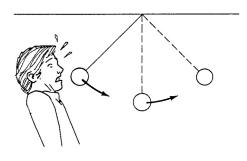
CHAPTER 1: INTRODUCTION

1. Which of the following statements is **true** (only one):

	a. The growth rate of energy consumption has kept pace with GNP growth.b. Oil use has expanded more than any other fuel since 1940.c. We reached the point last year where we imported no oil.d. Electricity use has actually fallen since 1975.							
	Answer: b							
2.	Which of the fo	ollowing is a non b. water	n-renewable reso c. wind	urce? d. biomass	e. radiant solar			
	Answer: a							
3.	Today, the U.S. a. 10%	. imports about v	what percentage c. 40%	of the oil it uses d. 60%	? e. 80%			
	Answer: d							
4.	1980's was a. a smaller population growth b. higher oil prices c. increased nuclear power costs d. increased domestic oil discoveries							
5.	Answer: b The most significant aspect of world consumption of energy over the last 40 years has been the a. growth of nuclear power b. expanding use of oil c. increased use of coal d. emphasis on energy conservation e. increase in our fossil fuel reserves							
	Answer: b							
6.	If you started with \$100 in the bank and you had \$200 after letting it sit there for 5 years, what would be the annual interest rate you received? a. 2% b. 5% c. 10% d. 14% e. 22%							
	Answer: d							

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7.	Continued use of the fuels most relied upon in developing countries will eventually lead to a. depletion of soil nutrients b. severe thermal pollution of water c. increased oil prices d. depletion of coal reserves in those countries						
	Answer: a						
8.		_ units by the y		ors is 7% per yea d. 8000	e. 20,000		
	Answer: d						
9.	The Hubbert curve for an energy resource displays what quantity on the y-axis? a. time b. total production c. yearly production d. amount of fuel left						
	Answer: c						
	A net force of 3	30 newtons is ap	MECHANICS plied to a block of the plied to a block of	of mass 10 kg. T	he force that must be applied to a e. 30 N		
	Answer: c						
11.	If a constant no a. change	on—zero force is b. stop	s applied to an ob		will certainly e. equal acceleration		
	Answer: a						
12.	Which of the following is a unit of energy: a. watt b. ft—lb/sec c. newton/sec. d. horsepower e. joule						
	Answer: e						

13. Our nosecracker moved back and forth as shown. The kinetic energy will be greatest at point:



b. B c. C a .A

Answer: b

14.	For a fossil fueled electrical generating plant, 10,000 Btu of chemical energy into the plant will result in about how many Btu's of waste heat dumped into the environment: a. 0 b. 1000 c. 4000 d. 6000 e. 10,000 Btu's						
		0. 1000	C. 4000	u. 0000	e. 10,000 Bu s		
	Answer: d						
15.	If a net force of 30 newtons is applied to a cart of mass 3 kg at rest, the velocity of the cart at the end of 5 meters will be m/s.						
	a. 5		c. 12	d. 25	e. 30		
	Answer: b						
16.	The cost of running a set of eight 100 watt light bulbs for 6 hours, with the cost of electricity at 9¢ per kWh, is approximately:						
	a. 5¢		c. 43¢	d. 54¢	e. 72¢		
	Answer: c						
17.				b, the acceleration	of fall increases, the air resistance on of the sack will be m/sec/sec. e. 24		
	Answer: a						
18.	a. increase the overall efficiency of a power plant b. make use of the output of electricity from photovoltaic cells c. are used to produce electricity mainly at night d. have an increase in their potential energy mainly at night e. cannot be used with a nuclear plant						
	Answer: d						
19.	If the energy conversion efficiencies in a 3 step process are 30% for the first step, 40% for the second and 20% for the third, the overall efficiency (step one to end) is about: a. 2% b. 10% c. 20% d. 50% e. 90%						
	Answer: a						
20.	What is the minimum work that a motor must do to lift a 70 lb object from the floor to a height of 14 feet?						
	a. 5	b. 70	c. 700	d. 980	e. 2010 ft-lbs		
	Answer: d						
21.	1. If the push that you give to a bike is the action force, then the reaction force is a. the force of the bike upon you b. the weight of the bike c. the friction force on the tires d. the acceleration of the bike e. air resistance on the bike						
	Answer: a						

Multiple Choice Questions

22. If the height of water behind a dam is increased by a factor of two, then the maximum kinetic energy

of the water at the bottom of the dam will increase by a factor of two, then the maximum kinetic energy of the water at the bottom of the dam will increase by a factor of _____.

a. one b. two c. four d. zero

Answer: b

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