## Nuclear Power NUCLEAR POWER PLANT - NUCLEAR PROLIFERATION version C

1. T	he Megatons to Megawatts Program
	<ul> <li>a) purchases spent fuel that could otherwise be used to make weapons, and is considered a success</li> <li>b) converts weapons grade uranium into fuel for commercial reactors, and is considered a failure</li> <li>c) converts weapons grade uranium into fuel for commercial reactors, and is considered a success</li> <li>d) purchases spent fuel that could otherwise be used to make weapons, and is considered a failure</li> </ul>
2. T	he Waste Isolation Pilot Plant in New Mexico
	a) is currently taking nuclear waste from production reactors
	b) can no longer nuclear waste from production reactors because it is full
	c) was originally a research and development facility but is now under private ownership
3. H	ow many latent (cancer) deaths are estimated to result from the Three Mile Island accident?
	a) from 4000 to 25,000
	b) zero
	c) from 0 to 1000
4. N	fuclear power plants typically have
	a) low capital costs and low fuel costs
	b) high capital costs and high fuel costs
	c) low capital costs and high fuel costs
	d) high capital costs and low fuel costs
5. H	igh-level radioactive waste management is a daunting problem because
	a) the isotopes are short-lived
	b) they cannot be stored underground
	c) the isotopes are long-lived

a) are already in	use
b) considered in	npossible
c) are likely to e	merge in the next few decades
7. After about	in a spent fuel pool the spent fuel can be moved to dry storage casks or reprocessed.
a) 5 months	
b) 50 years	
c) 5 years	
a) true	f spent Uranium helps alleviate the problem of long term waste storage
□ 1.\ f.1	
b) false	
	t long term nuclear waste management is now being performed by a number of private waste
One concern is that	•
O. One concern is that management compan	•
O. One concern is that management compan  a) true  b) false	•
O. One concern is that management compan  a) true  b) false  0. Fuel rods spend ty	ies
O. One concern is that management compan  a) true  b) false  0. Fuel rods spend typicsioned	rpically total now inside the reactor, generally until of their uranium has been
<ul> <li>One concern is that management companion</li> <li>a) true</li> <li>b) false</li> <li>O. Fuel rods spend to issioned</li> <li>a) 6 years; 3%</li> </ul>	rpically total now inside the reactor, generally until of their uranium has been

11. A 2008 report from Oak Ridge National Laboratory concluded that the dose to the public from radiation from coal plants is the radiation nuclear plants (excluding the possibility of accidental discharges of radioactive material		
	a) 10 times more than	
	b) 10 times less than	
	c) 100 times more than	
	d) 100 times less than	
	e) about the same as	
12.	It has been estimated that farmland lost due to Fukushima accident will be again useful for farming in 40-60 years	
	a) true	
	b) false	
13.	One concern about fast breeder reactors is that the uranium reserves will be exhausted more quickly	
	a) true	
	b) false	
14.	Uranium is approximately than silver in the Earth's crust.	
	a) 4 times more common	
	b) 40 times less common	
	c) 4 times less common	
	d) 40 times more common	
	It has been estimated that if Japan had never adopted nuclear power, the use of other fuels would have caused more years of life.	
	a) true	
	b) false	
16. '	The reprocessing of spent Uranium worsens the problem of long term waste storage	
	a) true	
	b) false	

17. A 2008 report from Oak Ridge National Laboratory concluded that the dose to the public from radiation from properly run nuclear plants is the radiation created by burning coal		
	a) about the same as	
	b) 10 times less than	
	c) 100 times more than	
	d) 100 times less than	
	e) 10 times more than	
18.	It has been estimated that farmland lost due to Fukushima accident will not be farmed for centuries	
	a) true	
	b) false	
19.	In the United States, reprocessing of spent Uranium	
	a) provides 5% of our fuel needs which is consumed within the United states	
	b) is not allowed due to nuclear weapon proliferation concerns	
	c) is not allowed due to waste management concerns	
	d) provides 20% of our fuel needs and allows the United States to export nuclear fuel	
20.	In a PWR reactor, the water is kept under high pressure	
	a) to prevent it from boiling	
	b) to slow down the neutrons	
	c) only in the reactor core	
	d) to reduce the heat required to boil it	
21.	Fast breeder reactors use uranium-238, an isotope which constitutes of naturally occurring uranium	
	a) 99%	
	b) 60%	
	c) 30%	
	d) 3%	
	e) 1 %	