Nuclear Power NUCLEAR POWER PLANT - NUCLEAR PROLIFERATION version B

1. High-level radioactive waste management is a daunting problem because
a) they cannot be stored underground
b) the isotopes are short-lived
c) the isotopes are long-lived
2. The Waste Isolation Pilot Plant in New Mexico
a) can no longer nuclear waste from production reactors because it is full
b) is currently taking nuclear waste from production reactors
c) was originally a research and development facility but is now under private ownership
3. Uranium is approximately than silver in the Earth's crust.
a) 40 times less common
b) 4 times less common
c) 4 times more common
d) 40 times more common
4. The reprocessing of spent Uranium worsens the problem of long term waste storage
a) true
b) false
5. It has been estimated that if Japan had never adopted nuclear power, the use of other fuels would have caused more lovers of life.
a) true
b) false
6. One concern about fast breeder reactors is that the uranium reserves will be exhausted more quickly
a) true
b) false

7. The Megatons to Megawatts Program		
	a) purchases spent fuel that could otherwise be used to make weapons, and is considered a failureb) converts weapons grade uranium into fuel for commercial reactors, and is considered a successc) converts weapons grade uranium into fuel for commercial reactors, and is considered a failured) purchases spent fuel that could otherwise be used to make weapons, and is considered a success	
8. F	ast breeder reactors use uranium-238, an isotope which constitutes of naturally occurring uranium	
	a) 3%	
	b) 99%	
	c) 30%	
	d) 60%	
	e) 1 %	
9. 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) 100 times more than	
	b) 10 times more than	
	c) about the same as	
	d) 10 times less than	
	e) 100 times less than	
10. Fuel rods spend typically total now inside the reactor, generally until of their uranium has been fissioned		
	a) 6 months; 3%	
	b) 6 months; 30%	
	c) 6 years; 3%	
П	d) 6 years; 30%	

11. Af	fter about in a spent fuel pool the spent fuel can be moved to dry storage casks or reprocessed.	
□ a	a) 5 months	
	b) 50 years	
	c) 5 years	
12. In	a PWR reactor, the water is kept under high pressure	
□ a	a) to reduce the heat required to boil it	
□ b	b) to prevent it from boiling	
□ c	e) only in the reactor core	
□ d	d) to slow down the neutrons	
13. It l	has been estimated that farmland lost due to Fukushima accident will not be farmed for centuries	
□ a	a) true	
□ b	p) false	
14. It l	has been estimated that farmland lost due to Fukushima accident will be again useful for farming in 40-60 years	
□ a	a) true	
□ b	b) false	
15. 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	a) 10 times less than	
□ b	b) 100 times less than	
□ c	e) 10 times more than	
\Box d	I) about the same as	
□ e	e) 100 times more than	
16. Re	eactors that use natural (unenriched) uranium are	
□ a	a) considered impossible	
□ b	b) are already in use	
□ c	e) are likely to emerge in the next few decades	

17. Nuclear power plants typically have			
	a) low capital costs and high fuel costs		
	b) high capital costs and low fuel costs		
	c) high capital costs and high fuel costs		
	d) low capital costs and low fuel costs		
18. 7	The reprocessing of spent Uranium helps alleviate the problem of long term waste storage		
	a) true		
	b) false		
19. One concern is that long term nuclear waste management is now being performed by a number of private waste management companies			
	a) true		
	b) false		
20. 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 waste management concerns		
	c) provides 20% of our fuel needs and allows the United States to export nuclear fuel		
	d) is not allowed due to nuclear weapon proliferation concerns		
21. How many latent (cancer) deaths are estimated to result from the Three Mile Island accident?			
	a) zero		
	b) from 0 to 1000		
	c) from 4000 to 25,000		