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

	one concern is that long term nuclear waste management is now being performed by a number of private waste nagement companies
	a) true
	b) false
	2008 report from Oak Ridge National Laboratory concluded that the dose to the public from radiation from properly nuclear plants is the radiation created by burning coal
	a) 100 times more than
	b) about the same as
	c) 10 times less than
	d) 10 times more than
	e) 100 times less than
	has been estimated that if Japan had never adopted nuclear power, the use of other fuels would have caused more lose of life.
	a) true
	b) false
plan	2008 report from Oak Ridge National Laboratory concluded that the dose to the public from radiation from coal ats is the radiation nuclear plants (excluding the possibility of accidental discharges of radioactive erial
	a) 10 times less than
	b) 10 times more than
	c) about the same as
	d) 100 times more than
	e) 100 times less than
5. Ir	n the United States, reprocessing of spent Uranium
	a) provides 5% of our fuel needs which is consumed within the United states
	b) provides 20% of our fuel needs and allows the United States to export nuclear fuel
	c) is not allowed due to waste management concerns
	d) is not allowed due to nuclear weapon proliferation concerns

6. 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
7. F	uel rods spend typically total now inside the reactor, generally until of their uranium has been fissioned
	a) 6 months; 30%
	b) 6 months; 3%
	c) 6 years; 3%
	d) 6 years; 30%
8. F	ast breeder reactors use uranium-238, an isotope which constitutes of naturally occurring uranium
	a) 99%
	b) 30%
	c) 60%
	d) 1 %
	e) 3%
9. U	ranium is approximately than silver in the Earth's crust.
	a) 4 times more common
	b) 4 times less common
	c) 40 times more common
	d) 40 times less common
10.	In a PWR reactor, the water is kept under high pressure
	a) to slow down the neutrons
	b) only in the reactor core
	c) to prevent it from boiling
	d) to reduce the heat required to boil it

11. F	High-level radioactive waste management is a daunting problem because
	a) the isotopes are short-lived
	b) the isotopes are long-lived
	c) they cannot be stored underground
12. C	One concern about fast breeder reactors is that the uranium reserves will be exhausted more quickly
	a) true
	b) false
13. T	The Megatons to Megawatts Program
	a) converts weapons grade uranium into fuel for commercial reactors, and is considered a failure
	b) purchases spent fuel that could otherwise be used to make weapons, and is considered a failure
	c) purchases spent fuel that could otherwise be used to make weapons, and is considered a success
	d) converts weapons grade uranium into fuel for commercial reactors, and is considered a success
14. T	The reprocessing of spent Uranium helps alleviate the problem of long term waste storage
	a) true
	b) false
15. A	After about in a spent fuel pool the spent fuel can be moved to dry storage casks or reprocessed.
	a) 5 years
	b) 5 months
	c) 50 years
16. R	Reactors that use natural (unenriched) uranium are
	a) are already in use
	b) considered impossible
	c) are likely to emerge in the next few decades

17. The reprocessing of sp	pent Uranium worsens the problem of long term waste storage
a) true	
b) false	
18. Nuclear power plants	typically have
a) high capital costs	and low fuel costs
b) low capital costs a	and low fuel costs
c) low capital costs a	and high fuel costs
d) high capital costs	and high fuel costs
19. The Waste Isolation P	ilot Plant in New Mexico
a) can no longer nuc	lear waste from production reactors because it is full
b) is currently taking	nuclear waste from production reactors
c) was originally a re	esearch and development facility but is now under private ownership
20. How many latent (can	cer) deaths are estimated to result from the Three Mile Island accident?
□ a) from 0 to 1000	
☐ b) zero	
c) from 4000 to 25,0	00
21. It has been estimated t	that farmland lost due to Fukushima accident will not be farmed for centuries
a) true	
b) false	