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Chapter 16 Concept Review

Directions: Answer the following questions using your notes and textbook 1. Thomas (late 1700's)- studied human population growth and said was growing faster than Earth's resources. Modern scientists use his observations and predictions when describing ecosystem's capacity 2. Humans have modified their environment through agriculture, transportation, medical advances, sanitation,etc. This ______ the carrying capacity resources- they are used faster than they are formed (e.g. oil, natural gas, coal) resources- resources that cannot be used up or can replenish themselves over time (e.g. wind energy, solar, lumber, etc.) - The amount of land necessary to produce and maintain enough food and water, shelter, energy and waste - describes any undesirable factor, or pollutant, that is added to the air, water, or soil 7. Smog- type of air pollution caused by interaction of with pollutants produced by fossil fuel emissions - microscopic bits of dust, metal, and unburned fuel (1-10 microns in size) that are produced by many different industrial processes 9. _____- produced by reactions of nitrogen oxide and oxygen forming ozone (O_3) - chemicals from fossil fuel emissions can lead to formation of acid rain that can affect many environments 11. Greenhouse effect- greenhouse gasses act like ______ to slow loss of heat through atmosphere a. Include: _____, carbon dioxide, _____ b. Absorb radiation trying to escape into space from Earth's surface 12. Global warming- the trend of increasing global species- a species that can provide a sign, or indication, of the quality of the ecosystems environmental conditions

14	as pollutant moves up the foc	od chain, it's concentration
increases		
15. The loss of	and growingand growingant population around the world	problems are
anecting animal and pie	ant population around the world	
16. The loss of biodiver	rsity has a long term effects on	of ecosystems
17. Habitat	when barrier forms the	nat prevents an organism
morn accessing its entir	e nome range	
18	any orga	nism that was brought to an
ecosystem as the resul	t of human activities	_
19	development- a practice in which	ch natural resources are
used and managed in a	a way that meets current needs without hurtin	g future generations
20. Endangered Specie protection for organism	es Act- designed to protect individual	by establishing
21. Often called	species (listed species)	, because its protection also
protect wide range of o	ther species	,
22. Environmental Prot	ection Agency- created as part of National Er	nvironmental Policy Act in
23. Clean Air Act, Clear on environment	n Water Act, Endangered Species Act have n	najor
24. Formation of Nation protected ecosystems	nal Parks to preserve large areas of	has
25. A sustainable Earth	n- humans represent an integral part of Earth's	s
a. We have abilit controlling birth i	ty to control how fast our rates	grows, through
b. We can develowaste	op to produce n	nore food and produce less
c. We have abilit maintain ecosys	ty to our practices and tems.	I take action to protect and