COLUMBUS STATE COMMUNITY COLLEGE

ESSH 1101 - Introduction to Environmental Science, Safety & Health

Name:	DAUND KERSHNER Date: 10/15/2019
	Quiz 2 – Units 3 & 4 (60 points)
1.	Only about 0.024% of the earth's vast water supply is available to humans and other species as liquid freshwater. (1 point) True False pg47 2.5% fresh wher but 3/4 is see but pg 57 says 0.024 %
2.	Detritivores, such as earthworms, consume wastes and dead organisms to obtain nutrients. (1 point) (a) True pg 49 detritivore deficition b. False
3.	Coral bleaching occurs (2 points) a. when excessive runoff allows household bleach to enter coral reefs b. when reefs become pale because algae leave and polyps die c. when the water becomes too alkaline and polyps overgrow d. when the calcium carbonate skeleton of a reef becomes overgrown
4.	Lightning is one of the natural mechanisms by which atmospheric nitrogen is converted to ammonia or ammonium ions. (1 point) True ammonification NH4+ & NH3 False P) 60 nitrade ions N2 -> NH3 -> NH4+ > NO3
5. , N	In an ecological community food chain, first trophic level organisms, which use energy from the sun and carbon dioxide from the air to perform photosynthesis, are known as what? (2 points) a. Heterotrophs b. Autotrophs c. Chemotrophs d. Trophic plants
6.	Reestablishment of an ecosystem following a disturbance, where remnants of the previous biological community contribute to new growth is referred to as (2 points) a. Primary Succession b. Post-traumatic Succession Secondary Succession

	aporation, precipitation and and infiltration to and from			=	with
	cycle. (2	2 points)			
a.	Tectonic				
b.	Geologic				
(c)	Hydrologic				
d.	Rock				
12. When	referring to chemical cycles	, the naturally	produced gaseous phas	se of Carbon exists in	the
atmos	phere as what type of mole	cule(s)? (2 poir	nts)	Angelie Varie	
a.	Carbon Tetrachloride	1 1	- civile DX	sentation	1
-7. B	Carbon Dioxide	Cau	coz e CH		
C.	Methane		COZ & CH	4	
d.	Both b and c				
13. The pa	ath a chemical takes through	•		sphere and Biosphe	re is
			(2 points)		
(a)	Life cycle				
~ (b)	Biogeochemical cycle	Al. to a	Cule (en 54) D	, biogroch	emico
2 c.	Global cycle	paouni	(Cycle (Pg 54) 01) C	icle
d.	Tectonic cycle				jere
robs	ed growth and all the water of needs	see bloom I oxygen	to sustain ag	heat month	is. 7hvs
				0	
15. Intens	sive farming practices often	result in: (2 po	ints)		
a.	an increase in species dive	ersity.			
(b.	a decrease in species dive	•			
Y	no change in species dive	•			
d.	an increase in productivit		THE RESERVE		
weath develof: (2,	was a volcanic eruption wh nered into soil, and small pla op. In a few decades, trees points)	ints started to	grow. Within several ye	ears, shrubs began to	•
الم	ecological succession				
Ь.					
	. limiting factor facilitation				

d. reforestation

26. Explain how commensalism differs from mutualism. (2 points) (1) Communication is where there is an interestion that benefits one species but has little beneficial or humiful effect on the atter. (2) Mutalisian is where two species authors and both benefit in some way either many by providing food, shelter, protestion, or some other resource.
27. On the evening news, there is a forecast of sunny weather for the next day with a high temperature 10°F warmer than today. This is an example of climate. (1 point) True b. False
28. Some animals living in tropical rainforests have stratified niches that are to competition for resources. (2 points) a. specialized; increase b. specialized; minimize c. generalized; increase d. generalized; minimize
29. Extinction can occur as the result of habitat fragmentation. (1 point) a True b. False
30. An endangered species is best described as any species that (2 points) a. has fewer than two individuals remaining b. is in danger of becoming rare could soon become extinct d. may eventually become threatened
a. an acronym that summarizes the Endangered Species Act goals an acronym to summarize the direct causes of extinction resulting from human activities c. the name of an ecotourism company in Africa that specializes in hippopotamus sightings d. an acronym to summarize the health care right to privacy act