Name	Date	Biology Period

Unit 5: ECOLOGY REVIEW SHEET

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Match the following terms with the correct statement. Each statement may be used only once.

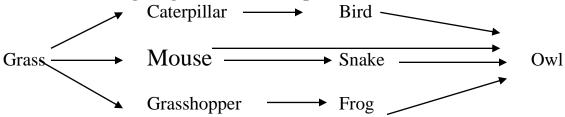
1.	Heterotroph	A.	One organism benefits without harming the other
2.	Secondary Succession	B.	Maintaining a natural balance on earth
3.	Ecology	C.	Study of organisms and their environment
4.	Prey	D.	Gradual replacement of one community by another
5.	Carnivore	E.	A relationship in which both organisms benefit
6.	Autotroph	F.	Organisms that cannot make their own food
7.	Parasitism	G.	A relationship in which one organism benefits but harms
8.	Commensalism		the other
9.	Herbivore	H.	Organisms that can make their own food
10.	Mutualism	I.	An organism that hunts
11.	Decomposer	J.	Organisms that eats only meat
12.	Omnivore	K.	Organism that breaks down dead material
13.	Predator	L.	Any biotic factor that restricts distribution of organisms
14.	Limiting Factor	M.	Organism that eats both plant and animals
15.	Homeostasis	N.	Organism that is hunted
		O.	An organism that eats only plants
			•

In	the s	pace to	the le	eft, wi	rite the	word	or i	phrase	that	includes	the	rest
				,			~ -					

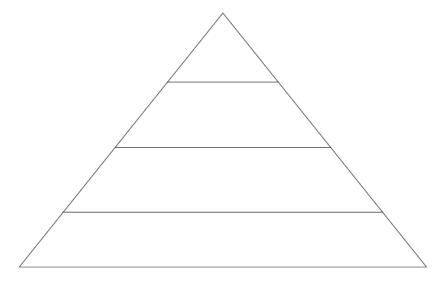
 16. trophic level, food web, food chain
 17. parasitism, commensalism, mutualism, symbiosis
 18. organism, ecosystem, population, community
 19. ecosystems, biotic factors, biosphere, abiotic factors
 20. omnivores, consumers, carnivores, herbivores
 21. evaporation, precipitation, water cycle, transpiration
 22. little rainfall, plants with waxy coats, desert, reptiles
23. low temp., little precipitation, tundra, permafrost

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Use the following diagram to answer questions 24-25.



- 24. What is the producer in the food web above?_____
- 25. Energy flows from the mouse to the _____ and ____
- 26. Label the four tiers of the energy pyramid with the correct trophic level (producers, primary consumers, secondary consumers, and tertiary consumers). Be sure to include arrows to indicate energy loss and energy transfer.



Based on the descriptions in questions 27-30, write E for Exponential Growth and L for Logistic Growth.

27.	This type	of growth	tends to	level	off upon	the c	arrying	capacit	ty.
	• •	-			-			-	•

- _____ 28. This type of growth has a period of steady growth.
- 29. This type of growth is more realistic and true
- _____ 30. This type of growth keeps growing forever if unchecked

III. SHORT ANSWER

31. Explain what the carrying capacity is in a logistic growth curve.

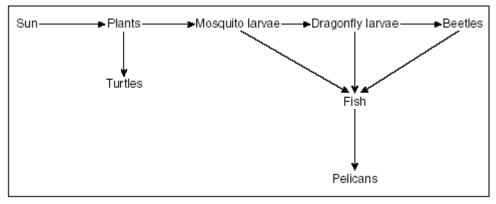
Naı	me		Date	Biology Period _
32.	List the 6 le	vels of biological organizat	ion from general t o	specific.
33.	N	difference between a niche Viche: Habitat:	and habitat.	
	•	iuoitut.		
34.	List 5 types 1.	of symbiotic relationships example:	and give examples	of each.
	2.	example:		
	3.	example:		
	4.	example:		
	5.	example:		
35.		nd contrast a food chain and Food Chain:	a food web.	
	F	Food Web:		
36.		d contrast primary and seco rimary:	ndary succession.	
	S	secondary:		

37. Compare and contrast density-dependent and density-independent factors.

Density- dependent:

Density- independent:

- 38. What is the main cause of ozone depletion?
- 39. What is the main cause of the greenhouse effect?
- 40. Contrast immigration and emigration. Which one causes the size of a population to increase?



- 41. If all of the mosquito larvae are removed from the food web above, which populations will decrease?
- 42. If the ecosystem above was contaminated with DDT, a harmful chemical, which population would contain the highest *concentration* of DDT?
- 43. Explain how the availability of resources affects population growth.
- 44. In the Amazon Jungle, the cappuccino monkey thrives in the high trees of the Peruvian area of the jungle. In the high trees, it can feed on hazelnuts and scavenge for food along the jungle floor. It also is food for many predators such as jaguars.
 - ☐ What would be the monkey's habitat?

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	☐ What would be the monkey's niche?		