1987 Pd 1

FLPS Biology B

Student name	_
Date	

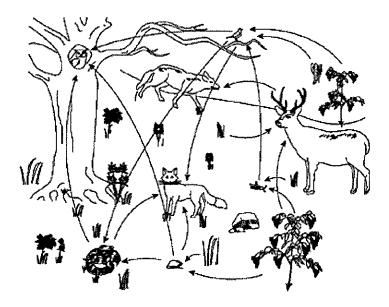
# Biology Exam B MP - 1

1. Autotroph	A simple model for showing how matter and energy move through an ecosystem.
2. Commensalism	B. relationship between species in which both benefit
3. Decomposer	C. network of interconnected food chains
4. Food Chain	D. manufactures nutrients using energy from the sun or from chemical compounds
5. Food Web	E. relationship between species in which one species benefits and the other is neither harmed nor benefited
6. Heterotrophy	F. simple model for showing how matter and energy move through an ecosystem
7. Parasitism	G. eats dead organisms
8. Scavenger	H. obtains energy by feeding on other organisms
9. Mutualism	I. relationship between species in which one species benefits at the expense of another
10. Symbiosis	J. permanent close association between two or more organisms of different species

## MULTIPLE CHOICE

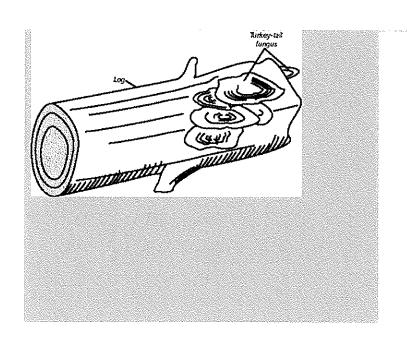
#### Directions Circle the correct answer.

1. An elk eats	grass. A grizzly bear eats the elk. This	s is an example of a					
C.	pyramid of numbers	C. food web					
D.	commensal relationship	D. food chain					
2. Biotic factor	es in a wetland community might incl	ude					
C.	water	C. temperature					
D.	crayfish	D. soil type					
3. As energy f	lows through an ecosystem, energy_	at each trophic leve.					
C.	remains the same	C. decreases then increases					
D.	increases	D. decreases					
4. Which of th	e following would be abiotic factors	for a polar bear?					
C. ext	reme cold, floating ice C. la	rge body size					
D. eat	ing only live prey	D. paws with thick hair					
5. Which of th	e following would decrease the amou	ant of carbon dioxide in the air?					
C.	A maple tree growing	C. a person driving a car to work					
D.	A dog running	D. a forest burning					
6. Which of th	e following is true concerning the flo	ow of energy and matter in an ecosystem?					
E.	Both energy and matter are recycled	l and used again					
	F. Matter is recycled and used again, energy is lost						
	G. Energy is recycled and used again, matter is lost						
H.	Neither energy nor matter are recyc	led and used again					



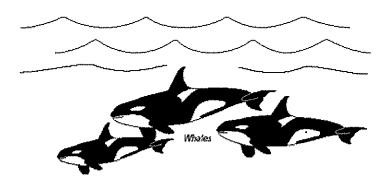
7. Identify the abiotic factor labeled in the ecosystem shown in Figure 2-5.

- A. butterfly
- B. rock
- C. mouse
- D. tree

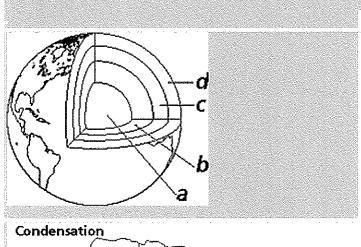


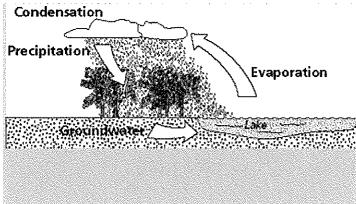
# 8. The organisms growing on the log in Figure 2-8 are \_\_\_\_?

- A. autotrophs
- B. producers
- C. carnivores
- D. decomposers

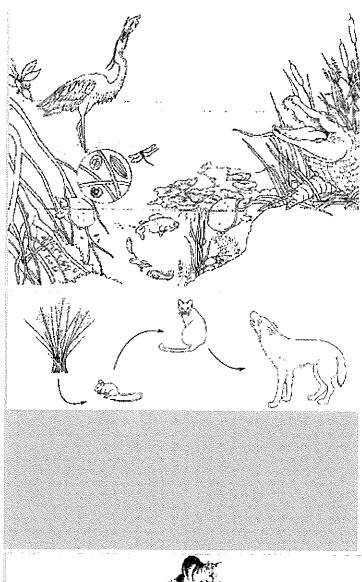


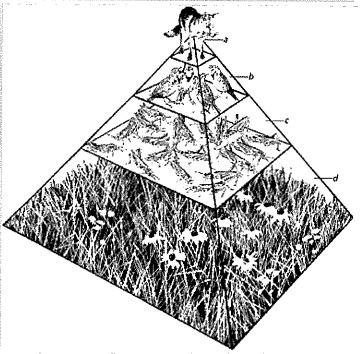
- 9. The group of animals in Figure 2-6 is an example of what?
- A. ecosystem
- B. population
- C. community
- D. biosphere



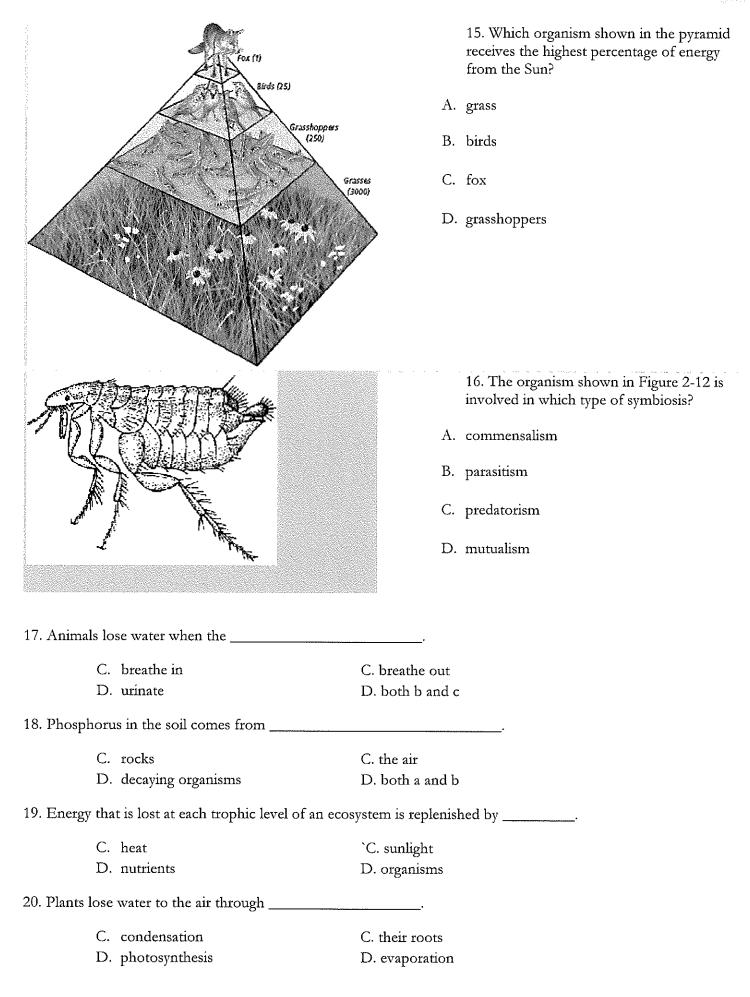


- 10. Where is the biosphere in Figure 2-4?
- A. Earth's crust
- B. core
- C. upper mantle
- D. mantle
- 11. What type of cycle is depicted in Figure 2-10?
- E. carbon
- F. phosphorus
- G. nitrogen
- H. water





- 12. What type of ecosystem is shown in Figure 2-11?
- A. population
- B. terrestrial
- C. acquatic
- D. abiotic
  - 13. Referring to Figure 2-1, suppose 10 000 units of energy are available at the level of the grasses. What is the total number of energy units lost by the time energy reaches the coyote?
- A. 9990 units
- B. 990 units
- C. 9900 units
- D. 90 units
  - 14. In the energy pyramid shown in Figure 2-7, which level has the smallest number of organisms?
- A. birds
- B. fox
- C. grasshoppers
- D. grass



### **SHORT ANSWERS**

Directions:	Answer all	questions	using	complete sentences.	Spelling	and	otammar (	count.
	TARIO VY CE CELL	questions	using	compicie semenees.	Shemme	anu	Zianininai (	-Ouzit.

1.	What is a producer?
0	
2.	Which organism breaks down and releases nutrients from other organisms?
3.	What is a scavenger?
4	
	Name an animal or organism at each level.
Decom	nposer
Herbiv	rore
Carniv	ore
Omniv	rore
5.	The air in our atmosphere contains about 78% of what element?

ESSAY Directions Answer the questions using complete sentences Spelling and grammar count!					
What element is considered the building block of all the molecules of life? Explain.					