9 SCIENCE 2015

BIOLOGY TEST TWO

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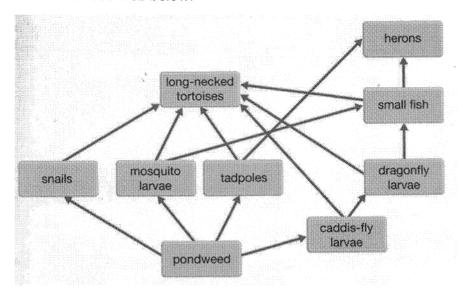
(10 marks)

Mark:

Percentage:

Name:					Teacher:
SECTIO	N A:				MULTIPLE CHOICE
Please	circle you	ır ansv	ver on tl	he multi	ple choice answer grid below.
1.	A	В	С	D	
2.	Α	В	С	Ď	
3.	Α	В	Ĉ	D	
4.	Α	В	(c)	D	
5.	A	В	С	D	
6.	Α	В		D	ER
7.	Â	В	С	D	ANSVEY
8.	A	В	(c)	D	
9.	A	В	С	D	
10.	Α	В	(c)	D	

Questions 1-3 are based on the food web below.



1. Identify which of the following relationships in the table are correct.

Answer	Predation	Competition
(a) (b)	Small fish and mosquito larvae	Tadpoles and dragonfly larvae
(b)	Snails and pondweed	Heron and small fish
(c)	Heron and small fish	Heron and long-necked tortoise
(d)	Long-necked tortoise and tadpoles	Tadpoles and small fish

- 2. If the lake was sprayed with a chemical to kill the mosquitos, identify the most likely effect.
 - (a) The amount of pondweed would decrease.
 - (b) The tadpole population would decrease.
 - (c) Most of the herons would migrate out of the area.
 - (d) The population of small fish would decrease.
- **3.** If a disease killed most of the long-necked tortoises, identify a likely short-term change in the ecological system.
 - (a) Rapid increase in the numbers of small fish.
 - (b) Decrease in the numbers of heron.
 - (a) Rapid increase in the biomass of pondweed.
 - (d) No change in the biomass of caddis-fly larvae.
- 4. Select the abjotic factors below:
 - (a) temperature, predation, water.
 - (b) competition, soil type, fire.
 - water, fire, temperature.
 - (d) soil type, parasitism, sunlight.

- 5. Your body sweating when you are hot is an example of:
 - (a) a functional adaptation.
 - (b) a behavioural adaptation.
 - (c) a structural adaptation.
 - (d) an environmental adaptation.



- **6.** A bat having wings is an example of:
 - (a) an environmental adaptation.
 - (b) a behavioural adaptation.
 - (c) a functional adaptation.
 - (d) a structural adaptation.



- 7. Using an umbrella when it is raining is an example of:
 - (a) a behavioural adaptation.
 - (b) a structural adaptation.
 - (c) a functional adaptation.
 - (d) an environmental adaptation.

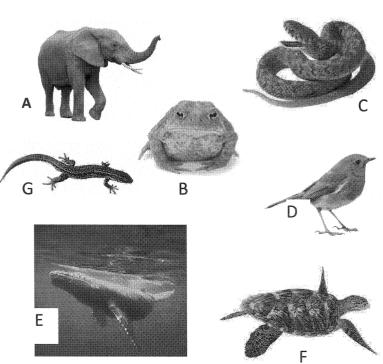


- 8. This mosquito sucking the blood of a human is an example of:
 - (a) competition.
 - (b) decomposing.
 - parasitism.
 - (d) predation.



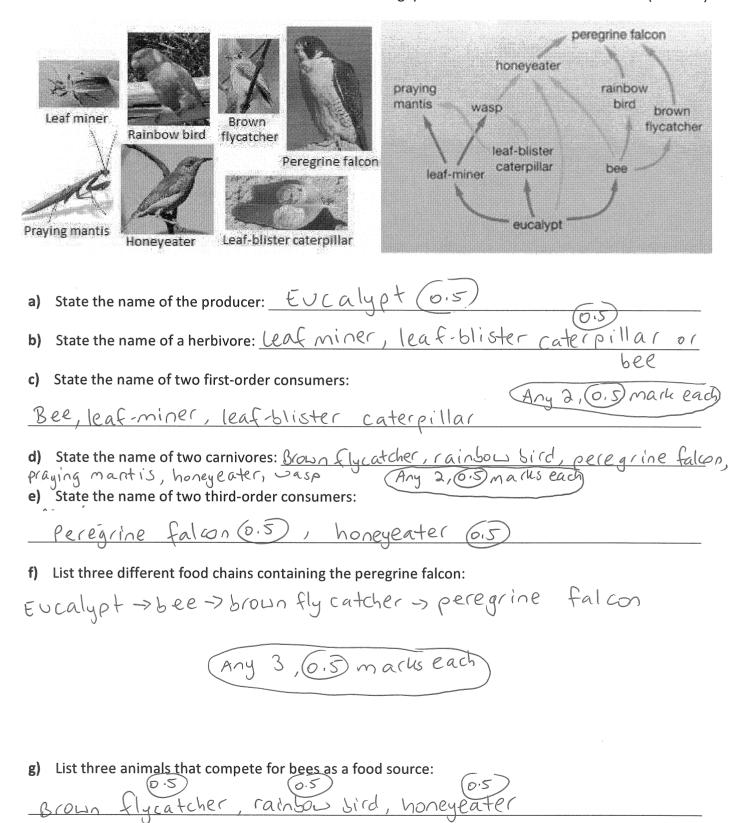
Questions 9 and 10 are based on the image below.

- **9.** The following organisms are endothermic:
 - (a) A, D and E.
 - (b) F, E and A.
 - (c) C, A and B.
 - (d) A, D and F.
- **10.** The following organisms are ectothermic.
 - (a) C, E and G.
 - (b) C, D and G.
 - (c) C, B and G.
 - (d) B, D and F.



1. Look at the food web below and answer the following questions.

(9 marks)



Praying mantis, wasp

i) Write an example of a predator and prey.

Predator:

List two animals that compete for leaf-miners as a food source.

Prey: _____

The habitat is where an organis	m lives ()
whereas the environment is a	11 the
factors that affect the o	rganism (D.
sunlight	or each missing (2 marks)
carbon dioxide + water glucos chlorophyll	e + oxygen
4. List two decomposers found in ecosystems.	(1 mark)
Bacteria (0.5) fungi (0.5)	
5. Describe two reasons why decomposers are vital for ecosystems to without them, ecosystems would ru	
- They allow matter to cycle in the	ecosystem.
They recycle matter for the produc	ers to reuse.
-They break down dead bodies a	
Ary a, Dmaile ea	ach)
6. Answer the true/false questions below (circle your answer).	(2 marks)
a) Energy does not cycle through ecosystems like matter does.	True False (0.5
b) Energy flow through food chains results in energy losses.	True False O.S
c) Groups of similar ecosystems are called biomes.	True False (0.5)
d) Competition can only occur between members of the same specie	es. True False 0.5
7. Explain why food chains are short and are unable to have more the There is energy lost along the following the following the following the following the control of the	bod chain so very
time it (eacher the end of the	9

not enough energy for more organisms in the chain.

8.	Look at the food web and answer the following question. (8 marks)	Eucalypt Beetle	Wattle	Tea-tree
wh	ne amount of wattle increased, describe at you think would happen to each of	Spider	Wasp	Butterfly larva Honeyeater
a) Lea	Leaf hoppers: Leaf hoppers			
	because there is no			lable
	Wasps: Wasps will is secause the leaf providing more foo more can survive.	hopper nur	mbers incr	eased
	Honeyeaters: Honeyearter number because the have increased.	he leaf ho		
d)	Beetles: Beetles wi Or if there is was numbers mo eaten by the	a large 11	s may b	10

Term	Description	Matching letter
a) Predator	Close and often long-term interaction between two or more different biological species.	9
b) Habitat	Organisms that require a ready-made source of food.	h
c) Ecologist	The organism killing and eating another organism.	à
d) Parasitism	The animal being killed and eaten.	j
e) Producers	An area of the Earth made up of all the organisms and abiotic factors within its boundaries.	K
f) Host	An example of a symbiotic relationship.	d
g) Symbiosis	The organism that a parasite lives off.	f
h) Consumers	The organism that usually harms or sometimes kills the host.	i
i) Parasite	Organisms that make food for the community.	e
j) Prey	Someone who studies ecology.	С
k) Ecological system	All the factors in an organism's surroundings that affect it.	L
I) Environment	Where an organism lives.	Ь

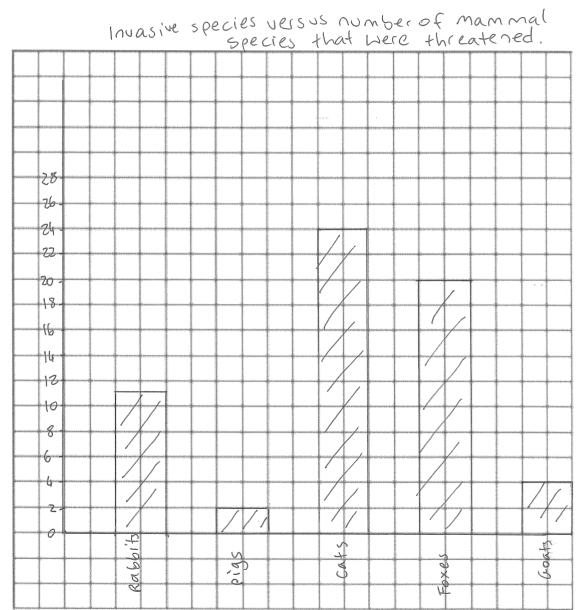


10. In Australia, in 2002, the number of mammal species that were threatened by invasive animals was recorded. The table on the right shows the data recorded.

Invasive species	Number of mammal species
	that were threatened
Rabbits	11
Pigs	2
Cats	24
Foxes	20
Goats	4

a) Draw a graph using the data in the table.

(5 marks)



Number of mammal species

invasive species

