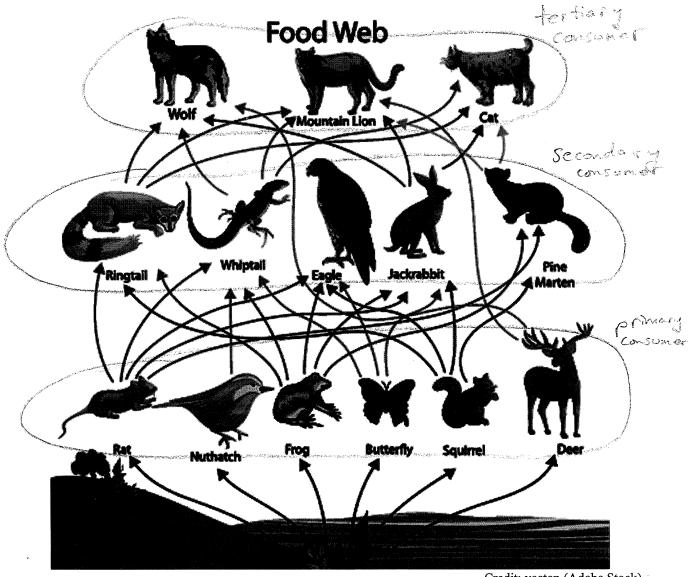
Ecosystems Review #1 (Food Webs, Energy Pyramids, Carbon Cycle, Nitrogen Cycle)

Part A – Multiple Choice Questions

- 1. B
- 2. C
- 3. B
- 4. A
- 5. D
- 6. B
- 7. D
- 8. C
- 9. C
- 10. A
- 11. B
- 12. A

Part B - Free Response Questions

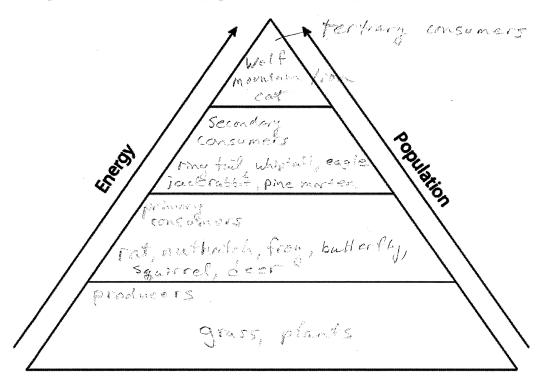
1. An ecosystem contains only the animals shown in the following foodweb.



Credit: vecton (Adobe Stock)

- (a) Label the primary, secondary, and tertiary consumers.
- (b) The producers are not labelled on the diagram. Provide an example of a possible producer for this ecosystem.

(c) Complete the following energy pyramid using the organisms from the food web.



(d) If the producers store 1 000 000 J of energy, how much energy would be stored by the tertiary consumers?

1500 5

(e) Briefly explain what could happen to the eagles and the rats if all the trees in the ecosystem were cut down.

answers will very answer should explain that the eagle population will decrease due to loss of habitat the text population may increase as there are forces predadors.

Explain how the excess nitrogen from someone over fertilizing their lawn could travel to the

answers will vary

The answer Should melude the idea

that tun-off from ram will flow to rivers and eventually to the ocean.