

Biology Short Constructed Response

Prompt

A food web is shown.

Grasses

removal of mice would have _____ on the food web.

Write your answer and your explanation in the

one of the following:

(consume grasses)

(consume mice)

_____ would prey upon more rabbits in the absence of

_____ would prey upon more lizards in the absence of

_____ (as consume mice as a food source)

_____ (if grasshoppers compete with mice for the _____ grasses)

Biology
Short Constructed Response Scoring Guide

Score: 1

The student answers half of the question correctly .

Score: 0

The response is incorrect or irrelevant .

Response 4



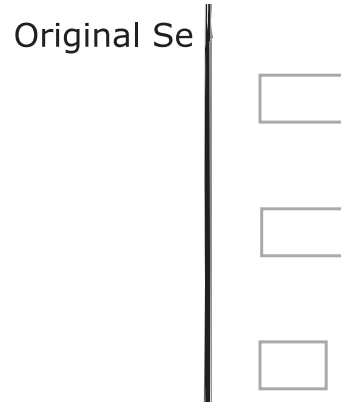
This response receives full credit. It includes each of the two required elements.

The student identifies an effect that the removal of mice would have on the food web (The Snake population would decrease) and then explains why the snakes would decrease (because they eat the mice and with no mice the snake would be gone).

Biology Short Constructed Response

Prompt

Two mutations of a genetic sequence are shown. A DNA codon chart is also shown .



- ☒ Which mutation would have the MOST significant impact on the gene product?
- ☒ Why would the impact be so significant?

Review the diagram carefully. Then enter your answer and your explanation in the box provided.

Sample Student Responses

Score Point 0

Response 1



This response receives no credit. It includes none of the two required elements.

¥ An incorrect mutation is provided (ÒMutation one will be the most significantÓ).

Response 4



This response receives no credit. It includes none of the two required elements.

- ✘ An incorrect mutation is provided (Mutation 3). This is incorrect as there is no mutation 3. There are three DNA sequences given, but more detail must be given so that it is clear that the student knows which mutation is correct. Mutation 3 does not receive credit.
- ✘ An attempt is made to provide an explanation for why the impact is so significant (Impact the gene product the most since it is not completed). However, no explanation is given for what is not completed or what impact or future implications

