

Name \_\_\_\_\_ Period \_\_\_\_\_ Assignment # \_\_\_\_\_

## 2A Essay Test Review (Qs 1-40)

- 1) Regardless of how you scored on this question. Read the question and fill out the chart below with each “to do” word, the task you are being asked to do, and the correct answer written in complete sentences.

To Do Word (verb)	Task (What)	Correct answer

- 2) Regardless of how you scored on this question. Read the question and fill out the chart below with each “to do” word, the task you are being asked to do, and the correct answer written in complete sentences.

To Do Word (verb)	Task (What)	Correct answer

3) Regardless of how you scored on this question. Read the question and fill out the chart below with each “to do” word, the task you are being asked to do, and the correct answer written in complete sentences. **Parts A and B only.**

To Do Word (verb)	Task (What)	Correct answer

The basic tenets of natural selection are: 1) populations produce more offspring than can survive (therefore, there will always be a struggle for existence because resources are limited); 2) there is variation within the individuals of the population to obtain the resources necessary for survival, and this variation is heritable; 3) those individuals that just happen to be better suited to survive in the current environment of the population will have more offspring; 4) Therefore, the variation that gives them a survival advantage will spread and become common within the population. Individuals live or die; populations evolve.

(c) Explain why Emperor Penguins and Baikal Seals have different diving abilities using the tenets of evolution by natural selection.

4) Regardless of how you scored on this question. Read the question, and fill out the chart below with each “to do” word, the task you are being asked to do, and the correct answer **for parts (a) and (b) only**.

**BOTH (a) and (b) require a justification.** A justification has 3 components: 1) scientific knowledge and/or theory; 2) specific data from analysis related to the knowledge; and 3) an explanation of HOW the data supports the knowledge. Highlight knowledge in pink, data in yellow, and explanation in green.

To Do Word (verb)	Task (What)	Correct answer

The basic tenets of natural selection are: 1) populations produce more offspring than can survive (therefore, there will always be a struggle for existence because resources are limited); 2) there is variation within the individuals of the population to obtain the resources necessary for survival, and this variation is heritable; 3) those individuals that just happen to be better suited to survive in the current environment of the population will have more offspring; 4) Therefore, the variation that gives them a survival advantage will spread and become common within the population. Individuals live or die; populations evolve.

(c) Explain how plants could have evolved a photosynthetic system that only utilizes part of the visual spectrum using the tenets of evolution by natural selection.

5) Regardless of how you scored on this question. Read the question and fill out the chart below with each “to do” word, the task you are being asked to do, and the correct answer written in complete sentences.

To Do Word (verb)	Task (What)	Correct answer