# **HGHS Biology EOC Winter Interim Review Assessment**

#### Intro to Biology/Classification of Life (Donohue)

1. Doctors have found a new heart disease and have not yet found a cure for it. The only hope is to design a new heart for humans to be able to overcome that disease. What would be the most effective procedure to test the heart on humans?

- Ask a healthy person to go under the procedure by removing his heart and replacing it with the artificial designed heart
- b. Perform the experiment on a new born baby
- Build a simulated human dummy and test the new heart on it
- d. Use a live rat to test the human heart on it.

Fish release hundreds of eggs at once. They do not spend energy caring for their offspring. Many of the eggs are consumed by predators. The evolutionary advantage of fish releasing large amounts of offspring is that:

- The eggs are help increase the trophic levels of the aquatic food web.
- The eggs provide protein for other evolutionary successful organisms.
- c. The more that are eaten by the predators, the more food will be available for the surviving offspring.
- Due to the large number, it is ensured that at least one will survive and reproduce.

3. Scientists recently have discovered an unknown species of bacteria living in the base of hot springs of the Dead Sea, a body of water characterized by its high salinity levels. Upon microscopic investigation, they discovered that these organisms did not have a nucleus or organelles. Into which group are they most likely to be classified as?

- a. protista
- b. anchaea
- c. fungi
- d. bacteria

4. A group of medical researchers in the California are testing the effectiveness of a new drug believed to treat Alzheimer's disease. They obtain positive results and publish their findings in an accredited medical journal. Another research group in Florida has completed a similar study; however, their results differ greatly from those published in the medical journal. Which of the following methods should the researchers use as part of the scientific process to assess the reliability of the other groups' publication?

- a. Check the educational credentials of the other researchers
- b. Discard their research and pursue a new topic.
- Repeat their own experiment using their same procedures.
- d. Repeat the other research group's experiment using the other groups' same procedures.

5. One of the characteristics of living things is the ability of a population to evolve over time. In order to do this, organisms must be able to adapt to their environment by choosing the most beneficial traits that enable them to survive and reproduce. This process is called:

- a. adaptation
- b. natural selection
- c. genetic drift
- d. homeostasis

# **Grade 10 Winter Interim Assessment Test Answers**

**Michael Hoelscher** 

#### **Grade 10 Winter Interim Assessment Test Answers:**

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value added approaches to assessment The editors goal is to provide readers with necessary information to create a smarter computer based testing system by following the advice and experience of experts from education as well as other industries. This book is based on a conference http marces org workshop htm held by the Maryland Assessment Research Center for Education Success It presents multiple perspectives including test vendors and state departments of education in designing and implementing a computer based test in the K 12 setting. The design and implementation of such a system requires deliberate planning and thorough considerations. The advice and experiences presented in this book serve as a guide to practitioners and as a good source of information for quality control. The technical issues discussed in this book are relatively new and unique to K 12 large scale computer based testing programs especially due to the recent federal policy Several chapters provide possible solutions to psychometricians dealing with the technical challenges related to innovative items cognitive diagnosis and growth modeling in computer based linear or adaptive tests in the K 12 setting Interim Report Great Britain. Dominions Royal Commission, 1914

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