

**Contoh Soal Responsi**  
**Biologi Umum – P.Bio.Inter (semester 1)**  
**Semester gasal 2012/2013**

**A. Multiple choice questions**

1. A taxonomic change occurs due to :
  - A. species isolation
  - B. population change
  - C. manmade isolation
  - D. natural reproduction isolation
  - E. natural changes in the environment
2. The morphological characters that were observed in the discussion of diversity included the following except :
  - A. Leaf shape
  - B. Leaf width
  - C. Type of flower
  - D. Type of pollen
  - E. Type of roots
3. Analogous organs are organs of different organisms that have the same :
  - A. Shape
  - B. Function
  - C. Colour
  - D. Structure
  - E. Size
4. A heterozygous individual for a monohybrid experiment would have a genotype :
  - A. AA
  - B. Aa
  - C. Aa
  - D. AaBb
  - E. AABB
5. The buttons that were used in the practical represented :
  - A. Chromosomes
  - B. Alleles
  - C. Genes
  - D. Cells
  - E. Egg cells

**B. Short essay questions**

1. Explain the differences between intra- and inter-species diversity !
2. Why is a classification method an important factor in biology?
3. Explain how 'new phenotypes' (phenotypes different from the original parents) can occur in the F<sub>2</sub> of a dihybrid cross ?
4. What is the purpose of stating a hypothesis in an experiment, such as in your final project ?
5. What are controls and variables in an experiment ? Write an example ! (you may give examples from the experiment that you carried out in your group).