



Biology Leaving Certificate Higher Level

Past Exam Questions on:

Genetic Engineering

Q10(c) 2012

- (c) (i) What is meant by the term *genetic engineering*?
- (ii) In genetic engineering all or some of the following procedures may be involved.

Isolation;
Cutting (restriction);
Transformation (ligation);
Introduction of base sequence changes;
Expression.

Briefly explain **each** of the above terms in the context of genetic engineering.

- (iii) Give **one** application of genetic engineering in **any two** of the following.
1. An animal.
 2. A plant.
 3. A micro-organism.

(24)

Q 6 2009

6. (a) What is *genetic engineering*? _____

- (b) Name **three** processes involved in genetic engineering.
1. _____
 2. _____
 3. _____
- (c) Give an example of an application of genetic engineering in each of the following cases:
1. A micro-organism. _____
 2. An animal. _____
 3. A plant. _____

Q10 (a) 2005

- 10.** (a) (i) What is meant by genetic engineering?
- (ii) State **two** applications of genetic engineering, **one** involving a micro-organism and **one** involving a plant. **(9)**