**Genetic Engineering In Agriculture** (p. 238 – 242)

**I. Improving Crops**

**1. List five ways in which plants have been genetically modified to help farmers.**

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**2. Why was rice genetically modified in Asia?**

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**II. Risks Of Genetically Modified Crops**

**1. Define the term *glyphosate*.**

Glyphosate –

**2. List four concerns about the use of genetically modified crops.**

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**III. Gene Technology In Animal Farming**

**1. Why is altering the growth hormone gene (Somatotrophin) important to farmers?**

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**2. Define the term transgenic animals.**

Transgenic Animals –

**3. How are human proteins made using transgenic animals?**

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**4. Who cloned the first sheep on July 5th, 1996?**

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**5. Complete the sentences in the diagram below to show the steps in cloning a sheep.**

**IV. Problems With Cloning**

**1. Define the term genomic imprinting.**

Genomic Imprinting –

**2. Why has the absence of genomic imprinting led to problems with clones as adults?**

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**3. The cloning of humans is illegal in most countries.**

Circle One : True False