**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