

# Agricultural Bioengineering Practice Test Questions and Answers

**1. What is the primary goal of precision agriculture in bioengineering applications?**

- A) Maximizing crop yield regardless of environmental impact
- B) Optimizing resource use while minimizing environmental impact
- C) Reducing labor costs only
- D) Increasing machinery efficiency

**2. Which biosensor technology is commonly used to monitor soil nutrient levels in real-time?**

- A) Infrared spectroscopy
- B) Ion-selective electrodes
- C) Ultrasonic sensors
- D) Magnetic resonance imaging

**3. In agricultural drainage systems, what is the optimal soil water tension for most crop production?**

- A) 0-10 kPa
- B) 10-30 kPa
- C) 30-50 kPa
- D) 50-80 kPa

**4. Which factor is most critical when designing automated irrigation systems for water use efficiency?**

- A) Soil type and crop evapotranspiration rates
- B) Initial system cost only
- C) Maximum water pressure capacity
- D) Number of irrigation zones

Answers: 1-B 2-B 3-B 4-A

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