



The Open University of Sri Lanka  
Faculty of Engineering Technology  
Bachelor of Industrial Studies (Agriculture)

Final Examination- 2014/2015

**AEI6250 Advanced biotechnology**

Date : 15 - 09 - 2015  
Time : 0930 - 1230 hours  
Duration : Three (03) hours

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SECTION II

1. Write an essay on 'use of enzyme biotechnology in food industry'.
2.
  - i. "Characteristics of inputs have direct impacts on biogas production". Critically evaluate the statement.
  - ii. Explain the facilitating and inhibiting factors of biogas production process.
3. Describe the haploid production on following topics.
  - i. Factors affecting haploid production
  - ii. Uses of haploids
  - iii. Problems concerned with haploid production
4. Critically evaluate and express your view/s on the application of "Bio village" concept in Sri Lanka.
5. Write an essay on use of antibiotics as growth promoting feed additives in animal biotechnology.
6. Write short notes on any **four (04)** of the following.
  - i. Production of secondary metabolites using industrial microbial biotechnology.
  - ii. Natural environmental biotechnology system available in Sri Lanka for aquaculture treatment.
  - iii. Somatic Embryogenesis
  - iv. Moral and ethical concerns of animal biotechnology
  - v. Use of molecular markers for characterization of crop varieties and plant genetic resources through DNA fingerprinting.