

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

Final Examination - 2016/2017

AEI5241 Agricultural biotechnology

Date

: 19 - 11 - 2017

Time

: 0930 - 1230 hours

Duration

: Three (03) hours

SECTION 2: Answer any four (04) questions.

- 1. a.) Explain the role of restriction enzymes in biotechnology.
 - b.) Describe the use of vectors for cloning and expression of desired genes.
- 2. Write an essay on new plant vareitial development through recombinent DNA technology.
- 3. Discuss the use of fermentation biotechnology for improving the food industry in Sri Lanka.
- 4. Discuss the objectives and procedure of conserving germplams.
- 5. Write an essay on "Possiblities of applying tissue culture techniques for the development of floriculture industry in Sri Lanka".
- 6. Write short notes on any two (02) of the following.
 - 1. Merits and Demerits of Biotechnology
 - 2. Compare and contrast northern, western and southern bloting techniques.
 - 3. DNA fingerprinting.
 - 4. Impacts of genetically modified organisms (GMOs)
 - 5. Current status and drawbacks of applying gene threrapy in curing diseases.