

The Open University of Sri Lanka  
 Faculty of Engineering Technology  
 Department of Agricultural & Plantation Engineering



Study Programme	: Bachelor of Industrial studies Honours in Agriculture
Name of the Examination	: Final Examination
Course Code and Title and	: <b>AGI5544/ AEI5244 Post harvest biology and technology II</b>
Academic Year	: 2018/19
Date	: 18 <sup>th</sup> January 2019
Time	: 0930-1230hrs

**SECTION 2: Answer any four (04) questions.**

1. Explain how post-harvest technologies could help to secure the food security (25 Marks)
2. (a) Discuss the role of the manager in a packinghouse to maximise the profitability of the operation (15 Marks)  
 (b) List five (5) packaging materials and give example for each perishable that can be packed ( Marks 10)
3. (a) Briefly explain the main factors that are to be considered in air transportation (cargo) of fresh produce to assure the quality of the end product? (10 Marks)  
 (b) Briefly explain how physiological process enhances the aging of perishables. (Marks 10)  
 (c) List five (5) market information that will be required in marketing perishables ( Marks 5)
4. Differentiate followings  
 a) Use of Reefer vessels vs reefer containers in sea transportation (12.5Marks)  
 b) Wet dumping vs Dry dumping of fresh produce at packing house (12.5 marks)
5. Write short notes on any **two (02)** of the following topics. (Each question carry mark 12.5)

- a) Transportation of perishables
  - b) Demand for dried fruits
  - c) Role of Sri Lanka standard Institution (SLSI)
6. “International and local certifications on product and process are important for a company to market products at local and export markets”. Critically discuss the above statement using the experience gained by visiting the food processing factory. (25 marks)