



The Open University of Sri Lanka  
 Faculty of Engineering Technology  
 Bachelor of Science in Industrial Studies (Agriculture) Program  
 Final Examination- 2012/2013  
**AEI5244 Post harvest biology and Technology II**

**Date** : 28.07.2012  
**Time** : 1330-1630  
**Duration** : Three (03) hours

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

1. Explain the problems face by the producers in Sri Lanka to produce fruits and vegetables to export and local market.
2. (a) List four (04) needs of storage in fruits and vegetables.  
 (b) Write three (03) basic pre-treatments used before storage/marketing.  
 (c) Write an account of different storage methods available in Sri Lanka for fresh produce.
3. Critically evaluate the statement. "Minimal processing is different from the conventional processing of fruit and vegetables".
4. (a) What is meant by" disease triangle".  
 (b) Differentiate a plant disease from a disorder.  
 (c) Explain the emerging technologies for post harvest diseases control for fresh produce available in Sri Lanka.
5. (a) List four (04) main causes of post harvest losses in fresh produce.  
 (b) Briefly explain recent developments in the management of post harvest losses in fruits and vegetables in Sri Lanka.  
 (c) Briefly explain what are the national issues and problems in reducing post harvest losses of fruits and vegetables in Sri Lanka.
6. Write short note on the followings.
  - (a) HACCP system
  - (b) Role of water activity for product safety and quality
  - (c) Sorting and grading
  - (d) Curing of onions