



The Open University of Sri Lanka  
Faculty of Engineering Technology  
Bachelor of Industrial Studies (Agriculture) Programme  
Final Examination- 2014  
AEI 3236 Postharvest Biology and Technology 1

Date: 22.08.2014  
Time: 9.30 a.m. – 12.30 p.m.  
Duration: Three (03) hours

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### SECTION 11

1. (i) State the reasons for postharvest losses in agricultural produce.  
(ii) Describe the methods available to minimize the postharvest losses due to the reasons indicated above
2. “Proper **preharvest** handling improves the **postharvest** shelf life of agricultural produce.” Critically evaluate the statement giving special attention to the **preharvest** management practices.
3. Write an essay on the limitations to adopt postharvest management practices in Sri Lanka.
4. Describe how packaging influence on postharvest quality of perishables.
5. Write a short essay on any **two (02)** of the following.
  - (i) Micro organisms causing postharvest wastages.
  - (ii) Role of Ethylene on fruit ripening.
  - (iii) Control of water loss in agricultural produce.
6. Differentiate any **three (03)** of the following.
  - (i) Physiological maturity and commercial maturity.
  - (ii) Climacteric fruits and non climacteric fruits.
  - (iii) Postharvest disorders and postharvest diseases.
  - (iv) Chilling injury and physical (mechanical) injury.