



The Open University of Sri Lanka
Faculty of Engineering Technology
Industrial Studies Program

Final Examination- 2006

AEX4232/ AED2212 Soil and water conservation

Date : 17-03-2007
Time : 0930-1230 hrs

SECTION II

1. (a) Briefly explain the movements of soil particles during wind erosion.
(b) Write a brief note on the methods of controlling wind erosion in agricultural lands.
2. (a) What are the constituents of sediments carried in streams due to erosion?
(b) 'Increasing levels of sediment transport by streams and depositing in reservoirs is becoming a threat to the functioning of reservoirs.'
Discuss the adverse effects on reservoir functions due to this situation.
3. Write an essay on 'Erosion control on sloppy agricultural lands' giving emphasis to erosion control in tea and rubber plantations.
4. Write short notes on any three (03) of the following.
 - I. Land terracing for soil conservation
 - II. Rain splash erosion
 - III. Increasing supply of water for agriculture.
 - IV. Live mulch cropping
 - V. Land use planning
5. (a) What are the constraints to implement soil conservation practices in Sri Lanka.
(b) Discuss how the government can contribute to overcome these constraints by addressing issues related to land encroachment, forest destructions and land allocation.
6. (a). Define the following terms
 - (i) Erosivity
 - (ii) Erodibility
(b) Briefly discuss the factors affecting erodibility.