





The Open University of Sri Lanka
Faculty of Engineering Technology
Industrial Studies (Agriculture) Programme
Final Examination 2010/2011
AEX4232 Soil and water conservation

Date

: 28-02-2011

Time

: 0930-1230

Duration

: Three (03) hours

SECTION 2: Answer any four (4) questions. All questions carry equal marks.

- 1. Write an essay on "crop and vegetation management in conservation farming"
- a. Briefly explain the term "crop rotation"
 - b. Explain the importance of conservation farming in obtaining long-term sustainable agricultural production
- 3. a. Briefly explain the term "infiltration capacity"
 - b. Calculate the soil loss for a 6 ha catchment having the following characteristics

Rf erosivity Index

= 300

Soil erodibility factor

= 0.6 t/ha/yr/R

Field slope

=4.2%

Length of slope

= 335 m

Conservation practice factor

= 0.5

Crop management factor

= 0.2

- 4. Write an essay on "Soil conservation in tea plantations in Sri Lanka". Include the causes of soil erosion and the possible measures to minimize the problems in tea plantations
- 5. Discuss the effects of political inventions in implementing an agricultural development projects in Sri Lanka
- 6. Write short notes on any three (03) of the following.
 - a. Pedestal erosion
 - b. Erosion control by good farming
 - c. Flood in rainny season
 - d. Rainwater harvesting and agriculture