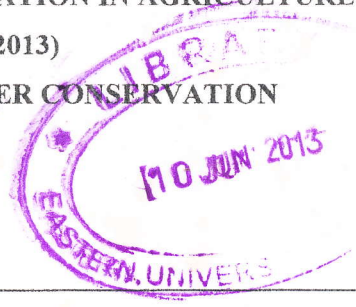


EASTERN UNIVERSITY, SRI LANKA

THIRD YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE- 2010/2011

(Jan / Feb 2013)

AEN 3102 SOIL AND WATER CONSERVATION



Time allowed: One hour

Answer **all** questions

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1. a. Briefly discuss the factors affecting water erosion.

b. In an area, following information is available in terms of soil erosion,

Rainfall erosivity index (R)	- 1200 tons/ha
Soil erodibility index (K)	- 0.2
Field slope	- 6 %
Slope length	- 100 m

i) Estimate the annual soil loss in this area.

ii) If allowable soil loss is 10 tons/ ha/year, calculate the crop management factor.

Comment on your result.

iii) Explain how this situation could be improved by adopting conservation practices.

2. Write short notes on the following:

a. Normal forms of water erosion.

b. Agronomical measures of soil conservation.

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