

FIJI NATIONAL UNIVERSITY

COLLEGE OF AGRICULTURE, FISHERIES AND FORESTRY

FINAL EXAMINATION: 2013

B.Sc Agriculture IIIrd year: Trimester IInd

SOIL EROSION AND ITS CONTROL (SAC 703)

TOTAL MARKS: 50

TIME: 3:10 HOURS

INSTRUCTIONS:

This paper consists of two (2) pages. Please check to see that your paper is complete.

Answer all questions in the answer booklet.

- Number your answers correctly in the provided answer booklet.
- Write your student ID number on all pages that you use including any additional sheet paper.
- Printed or written study materials are not allowed into the examination hall.
- Mark values appear at the end of each question or part thereof.

"MOBILE PHONES ARE STRICTLY NOT ALLOWED"

Good Luck

Part I: Give the short answer for given questions

Attempt any 7: Each 5 marks= total 35 marks

1. What is soil erosion? Brief explain the importance of soil erosion studies.
2. What are the significance of soil erosion and land degradation?
3. What do you understand with Geological and Accelerated erosion? Write a short note on anyone one.
4. Explain the types of on-site damages caused by accelerated erosion.
5. Explain the types of off-site damages caused by accelerated erosion.
6. What is soil loss tolerance? Write a short note on it.
7. What are fundamental steps of water erosion? Explain with suitable diagram.
8. Explain the types of water erosion. Write a short paragraph on each category with appropriate figure.
9. What are the factors affecting erosion by water? Explain any two in brief.
10. Give the general classification of different type of conservation tillage systems and explain the operations involved in each category.
11. What do you understand with wind erosion? Explain the factors affecting wind erosion
12. What type of cultural practices can be adopted to control the wind erosion? Write a paragraph on each.

Part II: Write answer in detail for the given question

1. What do you understand with Universal Soil Loss Equation (USLE) and its factors. With suitable example estimate the expected soil loss from Crop Farm CAFF in 2013. Use hypothetical data / figures for the question.

15 marks
