

**FIJI NATIONAL UNIVERSITY**

COLLEGE OF AGRICULTURE, FISHERIES AND FORESTRY  
SCHOOL OF AGRICULTURAL SCIENCES  
Department of Soil Science & Agril. Chemistry

**FINAL EXAMINATION: 2017****B.Ed Agriculture: Trimester I<sup>st</sup>****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**

5 marks for each question = 40 marks

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

**Part II: Write answer in detail for the given question**

1. What do you understand with Universal Soil Loss Equation (USLE ) and its factors. Estimate the expected soil loss of cultivated field with appropriate example. Use hypothetical data / figures for the question.

10 marks

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**END OF EXAMINATION PAPER**

