

# FIJI NATIONAL UNIVERSITY

COLLEGE OF AGRICULTURE, FISHERIES AND FORESTRY

## FINAL EXAMINATION: 2013

B.Sc Agriculture III<sup>rd</sup> Year: Trimester II<sup>nd</sup>

REMOTE SENSING AND ITS APPLICATION IN AGRICULTURE (AGR 701)

TOTAL MARKS: 50

TIME ALLOWED: 3:10 HOURS

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### INSTRUCTIONS:

This paper consists of three (3) 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

4. What are the key functions of GIS? Explain the importance of GIS.
5. What are the LIDAR advantages over aerial photography in creating topographic maps?
6. What do you understand by a raster and vector data. List and explain the name of GIS enteritis used for representations of real world features.
7. What do you understand by remote sensor? Explain the types of sensors used in remote sensing. What are the scanners? Explain any one in short.
8. What do you understand by thermal scanner? What are the advantages of satellite scenes? List down the sources for satellite images. What are the airborne sensors?
9. What is Geographic Information System? What are the components of a GIS? Explain any two in short.
10. What is the difference between a GIS hardware and GIS software? How a GIS works? List down the name of GIS tasks.
11. How do you think that Remote Sensing and GIS Technologies can be helpful in Sustainable Agricultural Development and Management for a developing country like Fiji. Use your own words for explanation.

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