

UNIVERSITY OF RUHUNA

Third Examination in BSc Agricultural Resource Management and Technology (Part I)

May 2017

SS 3102 Land Suitability Evaluation (Optional)

Time allocation: 2 hours

Index number

INSTRUCTIONS

Answer all questions.

Only non-programmable calculators are permitted.

Mobile phones are NOT permitted.

- 1)
- a)
 - i) What are the main objectives or aims of land use planning? (10 marks)
 - ii) What is the main reason for setting such objectives/ aims you mentioned under question 1) a) above? (10 marks)
 - b)
 - i) List down the major steps of land use planning process. (10 marks)
 - ii) Indicate experts or professionals who may be involved in the land use planning process. (10 marks)
 - iii) State the new technologies used in land use planning and explain briefly how each of them assist the land use planning process. (30 marks)
 - c) Do you think Sri Lanka is in need of a good land use management system or framework? Give reasons for your answer. (30 marks)
- 2)
- a)
 - i) What is land evaluation? (10 marks)
 - ii) Enlist five outcomes of land evaluation. (10 marks)
 - iii) Explain the relationship between land evaluation and land suitability evaluation? (20 marks)
 - b)
 - i) Indicate the differences between the parallel approach and the two stage approach in land suitability evaluation? (20 marks)
 - ii) If you have a limited amount of time for the land suitability evaluation, which approach would you chose? State your reasons. (20 marks)
 - iii) Explain briefly why and when the qualitative evaluations are done in land evaluation? (20 marks)
- 3)
- a)
 - i) What is the relationship between land use requirement and land utilization type? (10 marks)
 - ii) Give an example for a land in Sri Lanka which has very high scarcity value and, describe why you think so? (30 marks)

b)

- i) What is the difference between land suitability order and class? (10 marks)
- ii) Is there a possibility that the present land suitability status be changed to another over the time? Justify your answer (20 marks)
- iii) What are the difficulties faced by the evaluators when evaluating socio economic aspects related to the land? (30 marks)

4) Please refer to the attached research article (Annexure 01) to answer the following questions. You may indicate your answers in the research article itself. If you do so, it is very important to correctly indicate the question number.

- a) What is the main objective of the site suitability evaluation discussed in the paper? (10 marks)
- b) What are the main data gathered for the evaluation? (15 marks)
- c) If you wish to do a similar study in Sri Lanka, list the similar sources of information found in Sri Lanka? (20 marks)
- d) What is the approach followed in the given study? Indicate if it has any deviation from the approaches you have learned during the course. (25 marks)
- e) What are the land suitability classes the authors have used? (15 marks)
- f) What are the ways that the authors have utilized to present the outcomes of the study? (15 marks)