

Study Programme : Bachelor of Industrial Studies (Agriculture)

Name of the Examination : Final Examination

Course Code and Title : AGI3535 Land and Soil Tillage Management

Academic Year : 2017/18

Date :14th January 2019
Time : 0930-1230hrs

Duration : 3 hours

General Instructions

- 1. Read all instructions carefully before answering the questions.
- 2. This question paper consists of Six (6) questions in Two (2) pages.
- 3. Answer any Four (4) questions only. All questions carry equal marks.
- 4. Answer for each question should commence from a new page.
- 5. Relevant charts/ codes are provided.
- 6. Answers should be in clear hand writing.
- 7. Do not use Red colour pen.
 - 1. a) Briefly explain the causes for soil compaction.
 - b) Discuss the effects of soil compaction on crop production.
 - 2. a) Discuss the acid sulfate soil formation.
 - b) Describe the potential impacts of Acid Sulfate Soils.
 - 3. a) Briefly describe the different soil horizons in a soil profile and their special features.
 - b) Explain the importance of soil colours with regard to its composition.
 - 4. a) Briefly explain the steps involved in achieving accurate seeding.
 - b) Describe broadcasting techniques of seeding.

- 5. a) Explain the different operations involved in land preparation.
 - b) Briefly explain the advantages of primary and secondary tillage.
- 6. a) Describe the benefits of land leveling.
 - b) Briefly discuss the Best Management Practices involved in following land management practices.
 - i. Structural practices
 - ii Nutrient management
 - iii Tillage practices
 - iv Waste management