

Uva Wellassa University
B.Sc. in Export Agriculture
Bachelor of Animal Science



End Semester Examination June/July 2009
Year II Semester II
Repeat
Agricultural Farm Mechanization EAG 2203-2

Instructions

Answer all questions. Each question bears equal marks.

No. of questions : Four (04)
No. of pages : Two (02)
Total marks allocated : 100%
Time : Two Hour (2 hrs)

1.
 - a. What is a four stroke cycle engine?
 - b. What is a two stroke cycle engine?
 - c. What actually takes place in the following strokes;
 - i. Intake.
 - ii. Compression.
 - iii. Power.
 - iv. Exhaust.

2.
 - a. How do you compare a diesel engine with a gasoline engine?
 - b. Explain briefly the following in relation to internal combustion engine;
 - i. Volumetric efficiency.
 - ii. Mechanical efficiency.
 - c. Explain briefly the importance of following parts of a tractor engine;
 - i. Oil sump.
 - ii. Fuel filters.
 - iii. Fly wheel.
 - iv. Injector pump.

3.

- a. Discuss the purpose of land preparation.
- b. Write short notes on the following;
 - i. Minimum tillage.
 - ii. Zero tillage.
 - iii. Tillage and crop production.
- c. Define the following terms;
 - i. Draft.
 - ii. Specific draft.
 - iii. Work.
 - iv. Power.
 - v. Drawbar power.

4.

- a. What do you mean by homogenization?
- b. Classify the homogenizers based on number of pistons and stage of homogenizing.
- c. Illustrate the principle in homogenization by using one of the homogenizers classified in question 4(b).
- d. Critically explain the importance of homogenizing milk in ice cream industry.