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17 OCT 2014

**EASTERN UNIVERSITY, SRI LANKA**  
**THIRD YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2009/2010**  
**AS 3101 LIVESTOCK BREEDING**  
**END SEMESTER EXAMINATION**  
**Jan/Feb 2014**

Time Allowed: <sup>Two</sup> ~~One~~ Hours

Answer all questions.

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1. Discuss the objectives and process of livestock breeding under the following principles
  - a. Dominant effects in gene expression (20 Marks)
  - b. Selection (45 Marks)
  - c. Mating Systems (35 Marks)
  
2. Briefly discuss the following
  - a. Analyzing and processing of semen of bull for artificial insemination (60 Marks)
  - b. Application of estrus synchronization techniques in cattle (40 Marks)
  
3. Write an account on the following
  - a. Heritability (45 Marks)
  - b. Use of breeding value and accuracy of selection in livestock breeding (55 Marks)
  
4. Write short notes on the following
  - a. Heterosis (30 Marks)
  - b. Hardy-Weinberg Equilibrium (35 Marks)
  - c. Tandem Selection (35 Marks)