



*"Investing in Africa's Future"*

**COLLEGE OF SOCIAL SCIENCES, THEOLOGY, HUMANITIES AND  
EDUCATION (CSSTHE)  
DEPARTMENT OF EDUCATION**

**AAS 304: Range and Pasture Management  
END OF SECOND SEMESTER EXAMINATIONS**

**APRIL/MAY 2018**

**LECTURER: MR. S. WASHAYA**

**DURATION: 3 HOURS**

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***INSTRUCTIONS***

1. Answer any **FIVE** questions
2. Each question carries **20 marks**.

1. Define the following terms :



- |       |                 |            |
|-------|-----------------|------------|
| i.    | Range           | [2 marks ] |
| ii.   | Ecology         | [ 2marks]  |
| iii.  | Community       | [2marks]   |
| iv.   | Population      | [2marks]   |
| v.    | Biome           | [2marks]   |
| vi.   | Biosphere       | [2marks]   |
| vii.  | Autecology      | [2marks]   |
| viii. | Stock intensity | [2marks]   |
| ix.   | Stocking rate   | [2marks]   |
| x.    | Seres           | [2marks]   |
2. (a) Describe the 4 principles of ecosystem organization and indicate mechanism that allow for ecosystem self development [ 12 marks]
- (b) State the importance of grasses in rangelands [8 marks]
3. Discuss the Monoclimax (Clemensian) theory in comparison to polyclimax theories [20marks]
4. (a) Illustrate the processes involved in plant succession . [10 marks]
- (b) Outline the differences between grasses and legumes. [10 marks]
- 5 (a) Describe in detail the three main veld types found in Zimbabwe [15 marks]
- (b) Briefly explain carrying capacity and its significance to veld management [5 marks]
6. Write short notes on the five principles of veld management [20 marks]

**End of Exam Paper**