

ALP 2313: Soil Survey

Cat I

4/7/2018

Answer all questions. Illustrate your answers as necessary.

Q 1.

- c. Outline the aims, importance and role of soil surveys in land evaluation and land use planning.
- d. Outline the essential characteristics and major limitations to use of the soils in the following areas:
 - i. Kano Irrigation Scheme
 - ii. Uasin Gishu Highlands
 - iii. Laikipia Plateau

Q2.

- a. Describe in detail the general procedure for conducting a soil survey in Kenya
- b) Explain how and in what types of surveys soil association and complexes are used.

Q 3

- c. Name the two most extensive soils in the ASALS of Kenya. For each outline the essential characteristics and discuss their limitations for irrigation
- d. Explain how soil is mapped and its Legend constructed

Q 4.

- a. Describe five major soil types found in catenas around the volcanic mountains in Kenya. For each soil, name the essential diagnostic horizons.
- b. Outline the essential characteristics and major limitations to use of the soils in the following areas:
 - j. Mwea Irrigation Scheme
 - ii. Athi-Kapiti Plains
 - iii. Chalbi Desert
 - iv. Tsavo National Park