

Instructions

Answer all questions: Illustrate your answers as necessary.

1. a. Describe the wider matching process in land evaluation
  - b. Discuss the nature and effect, and assessment of the land qualities:
    - i) Availability of moisture
    - ii) Possibility for mechanization
  - c. Give a detailed description of the role of land evaluation in Land use planning
  2. a. Discuss the principles/objectives of the USBR system
  - b. Describe the classification categories of the FAO Framework for land evaluation
  - c. Discuss the nature and effect, and assessment of the land qualities:
    - i) Resistance to erosion
    - ii) Availability of oxygen
  3. a) Define the following terms:
    - i. land
    - ii. land capability
    - iii. Land suitability
    - iv. Payment capacity
  - b) Discuss the procedure for conducting suitability classification according to the USBR System
  - c) Describe the four irrigable classes of the USBR System.
- ④ Mr Ole Mtiapa has a twenty hectare farm in the Athi Kapiti plain on which he intends to grow horticultural crops.
- i. Explain how you would assess the suitability of his farm for horticultural production.
  - ii. Name some four land qualities you would use as diagnostic criteria in the evaluation. Justify the selection of the diagnostic criteria.