

Question 1

- a. Define the terms:
 i. Land Capability ii. Land class iii. Potential suitability iv. Land evaluation
- b. Describe the procedure for conducting suitability classification according to the USDA-SCS Land Capability Classification System.
- c. Define diagnostic criteria and outline the factors which must be considered when selecting it in an area.
- d. Discuss the importance of some six major key attributes employed to describe land utilization types.
- e. Mr Ole Mtuapa has a twenty hectare farm in the Athi Kapisi 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.

Question 2

- 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 soil survey in land evaluation.

Question 3

- a. Discuss the principles 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) Availability of Nutrients ii) Availability of oxygen

Question 4

- a. Define the following terms:
 i. Land ii. Land suitability iii. Payment capacity
- b. Outline the two approaches used in the FAO framework for land evaluation.
- c. Discuss the USDA-SCS Land Capability Classification System.