**FORM 1 AGRICULTURE**

**CAT 1**

**OUT OF 30**

**TIME: 1 HOUR**

**INSTRUCTION**

Answer all the questions in the spaces provided.

1. Differentiate between Aquaculture and Apiculture. (2mks)

**Aquaculture involves rearing of fish in fish ponds.**

**Apiculture involves rearing of bees in beehives.**

2. State three factors that will determine the choice of implement during primary cultivation. (3mks)

**- Condition of the land**

**- Type of tilth required**

**- Depth of cultivation**

3. Give the three forms of water. (3mks)

**- Superfluous water**

**- Capillary water**

**- Hydroscopic water**

4. Study the diagram below and answer the questions that follow.

B

C A

a) Identify the tool. (1mk)

**Hand saw**

b) Name the parts labeled A, B and C. (3mks)

A – **Heel**

B – **Handle**

C – **Toe**

5. a) What is land preparation. (1mk)

**This are all the activities carried out on land to make it ready for planting.**

b) State three reasons for land preparations. (3mks)

**- To kill weeds**

**- To inco-operate manure and other organic matter into the soil.**

**- To destroy different stages of crop pests, exposing them to the sun and predators.**

**- To aerate the soil**

**- To make subsequent operations easy /possible**

**- To encourage water infiltration into the soil.**

6. State four main methods of clearing land. (4mks)

**- Tree felling**

**- Burning**

**- Slashing**

**- Use of chemicals**

7. Give reasons why burning as a method of bush clearing is discouraged. (3mks)

**- Destroy humus**

**- Destroy soil structure**

**- Destroy soil m.o**

**- Loss of moisture**

**- Can spread to unintended areas**

8. Give reasons why the following practices are carried out during land preparations. (3mks)

i) Rolling – **to compact the soil which is loose to prevent small seeds from being carried away by wind and to prevent soil erosion**.

ii) Leveling – **Make the soil surface flat and uniform so as to promote easy germination of small seeds.**

iii) Ridging – **to encourage tuber expansion**

**- allow easy harvesting**

**- help to conserve soil and water.**

9. What is minimum tillage? (1mk)

**It’s a practice that combines farming practices aimed at least disturbance of the soil.**

b) State three importance of carrying out minimum tillage I crop production. (3mks)

**- Reduce cost of cultivation**

**- Maintain soil structure**

**- Control soil erosion**

**- Conserve moisture**

**- Prevent exposure of humus**

**- To prevent disturbance of roots.**