

## S.2 MARKING GUIDE AGRICULTURE

No.1

- ✓ Soil infertility
- ✓ Prolonged drought (dry weather)
- ✓ Poorly drained soil
- ✓ Excessive rain falls
- ✓ Pests and diseases
- ✓ Poor farm management practices like weeding

No.2a)

- ✓ Forests clean our air
- ✓ Forests provide clean water
- ✓ Forests help to conserve wild life (birds, animals)
- ✓ It helps in rainfall formation
- ✓ It is a source of food
- ✓ It is a source of employment
- ✓ It attracts tourists
- ✓ It is a source of herbal medicine

No.2b)

- ✓ Mvule
- ✓ Mahogany
- ✓ Ebony
- ✓ Pine
- ✓ Cyprus
- ✓ Eucalyptus

No.3

Total composition = 25% + 25% + 45% + 5% = 100%

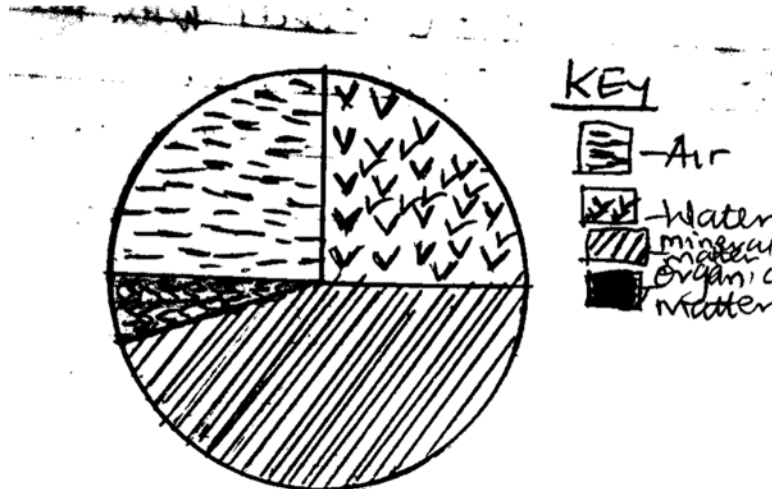
$$\text{Air} = \left( \frac{25\%}{100} \times 360 \right)^\circ$$
$$= 90^\circ$$

$$\text{Water} = \left( \frac{25\%}{100\%} \times 360 \right)^\circ$$
$$= 90^\circ$$

$$\text{Mineral matter} = \left( \frac{45}{100\%} \right)^\circ$$
$$= 162^\circ$$

$$\text{Organic matter} = \left( \frac{5\%}{100\%} \times 360 \right)^\circ$$
$$= 18^\circ$$

**A PIE-CHART REPRESENTING THE COMPOSITIONS OF THE AVERAGE SOIL**



No.4

- ✓ limited land
- ✓ inadequate capital
- ✓ resistant to change from small scale to large scale farming
- ✓ price fluctuations
- ✓ few organized markets for large scale production

No.5a)

- ✓ soil drainage
- ✓ water retention/ holding capacity

No.5b)

- A. clay soil
- B. loam soil
- C. sand soil

No. 5c)

- ✓ It has no organic matter
- ✓ It is easily eroded
- ✓ It has a good drainage
- ✓ It has no nutrients
- ✓ It has a low capillarity
- ✓ It has a low water holding capacity
- ✓ It has large/ coarse particles

No. 6a)

- ✓ It helps to fix nitrogen in the soil

No. 6b)

Plant X	Plant Y
Have tap root system	Have fibrous root system
Have nodules on their roots	Have no nodules on their root
Have compound leaves	Have simple leaves.
Have seeds with two cotyledons	Have seeds with one cotyledon
Have network veins	Have parallel veins.

No.7i)

- ✓ Milk
- ✓ Manure
- ✓ Eggs
- ✓ Wool

No. 7ii) Of what benefit are those animals in the picture above to the farmers (4 marks)

- ✓ Source of food like meat
- ✓ They provide manure
- ✓ Some of source of power
- ✓ Source of income to the farmer after sale
- ✓ Source of employment

No.

- ✓ Helps farmers to find out whether they are operating under profits or losses
- ✓ Help farmers to obtain loans
- ✓ Help farmers to remember their debts and pay them
- ✓ Help farmers to remember the history of the farmer
- ✓ Help in valuing the farm
- ✓ Help in planning and drawing budgets for the farm

No.

- i Lamb
- ii Doe
- iii A capon
- iv Boar

No.10

- ✓ Kept for recreational purpose like cock fighting
- ✓ Source of quality manure
- ✓ Source of food in farm of meat and egg
- ✓ Source of income after sale
- ✓ Source of employment
- ✓ Kept as pets such as parrots

No.11a)

- ✓ Wearing protective gear such as crush helmets and hand gloves
- ✓ Reading instructions before
- ✓ Operating the machinery
- ✓ Maintaining a well-qualified
- ✓ Medical physician to handle the injured victims
- ✓ Having a first aid box that is well equipped with medicine and other medical equipment.

No.12a)

- ✓ Through application of organic matter
- ✓ Through planting cover crops
- ✓ Through irrigation
- ✓ By carrying out minimum tirage
- ✓ Avoid bush burning

No.12b)

- ✓ They help in decomposition of organic matter
- ✓ They help to improve soil aeration, by creating holes
- ✓ They die and decompose to form organic matter.

**END**