

AGRICULTURE GRADE 11

SECTION A

1. (a) (i) B  
(ii) A  
(b) Clean, grease/oil, store securely, sharpen and keep dry.  
(c) A
  
2. (a) (i) Maize crop ready to be harvested when the cob is fully grown and yellow in colour.  
(ii) By hand  
(iii) Stored in dry , cold , and pest free storeroom.  
(b) By insect pests – eat the crop / contaminate as foreign bodies; rats – spoil crop by urine / faeces / eat the crop; fungi – rot the crop; temperature – chilling / shrinking; bruising – physical damage; water content / humidity too high – rot / germination; fire damage – crop cannot be sold / is lost.  
(c) A
  
3. (a) Systemic pesticide is taken up by plant and translocated to the cell sap. Crop pests are killed when they ingest the pesticide poisoned cell sap.  
(b)  $(200/50) = 4$  litres  
(c) Do not spray on windy day; do not spray near water; do not spray near hedgerows  
Use suitable dilution of spray; safe disposal of containers  
Wear gloves , mask and clothes to avoid contamination.  
Do not wash out sprayer in a stream.
  
4. (a) (i) D  
(ii) A  
(b) bacteria; nematodes; fungi; earthworms; roots.  
(c) Roots of trees grow into cracks of rocks. As the root expand when growing they split rocks into smaller pieces.

5. (a) Sexual reproduction produces offspring by fusion of male and female gametes.  
(b)

bean	maize
brightly coloured petals	dull green flowers
nectar	no nectar
heavy pollen	light pollen

(c) B, D, C, A

(d) & (e) Refer to book G.Owen page 59.

### SECTION B

6. (a) & (b) Refer to book G.Owen page 58 – 59.  
(c) Refer to book G.Owen page 68.
7. (a) Refer to book G.Owen page 157.  
(b) Refer to book G.Owen page 161-167.
8. (a) & (b) Refer to notes Grade 10 copybook.