

**NOVEMBER 2002**

**INTERNATIONAL GCSE**

**MARK SCHEME**

**MAXIMUM MARK : 70**

**SYLLABUS/COMPONENT : 0600/2**

**AGRICULTURE**

**(CORE)**



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1. (a) (i) sub-soil; 1
- (ii) 1. growth of roots; 1
2. CO<sub>2</sub> / SO<sub>2</sub> + water;  
Acid dissolves rock; R breaks down rock 2
- (b) same key as example;  
sand / clay / humus in a balanced proportion; 2
- (c) B; the lime flocculates / breaks up the clay; 2
- B; lime is alkaline; 2
- [10]
2. (a) (i) plant Q; 1
- (ii) large / colourful petals;  
nectary / scent;  
enclosed parts;  
simple stigma; any two 2
- (iii) food storage / spread of plant (asexual reproduction) / stability; 1
- (iv) nodules; 1
- (v) bacteria; 1
- (b) (i) transpiration; 1
- (ii) Q;  
larger surface area; 2
- (c) (i) fungus; 1
- (ii) remove and burn /use fungicide; 1
- (d) Q because larger leaves; shade out weeds;
- or
- P because food reserve in rhizome; enables growth; (no mark for choice) 2
- [13]



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5. (a) (i) long lasting; R good conductor of heat  
 does not harbour pests;  
 low fire risk; any two 2
- (ii) hens can escape via nest box and roof / egg box inaccessible; 1
- (iii) rotation allows grass to re-grow;  
 parasite levels controlled; isolation of sick poultry, control breeding any two 2
- (b) advantage - recycling waste energy efficient;  
 nutrients in droppings used by pond life which are food for fish;  
 R droppings food for fish  
 saves land space;  
 hens safer from predators; any one 1
- disadvantage - droppings breakdown accelerates stagnant conditions;  
 risk of parasites / disease spread; water pollution any one 1
- (c) turkeys not such good layers;  
 turkeys bigger so eat more;  
 idea that turkeys less economic but with reason; any one 1  
 [8]
6. (a) (i) A. sperm duct / vas deferens  
 B. urethra; 2
- (ii) medium for sperm;  
 activate sperm;  
 lubrication; any one 1
- (b) 1. isolation;  
 2. spray cord / ensure suckling / clear nostrils; 2
- (c) provides high energy food / antibodies. 1
- (d) 1. Less robust / well-grown R dies.  
 2. quicker recovery / more young in given time; 2
- (e) (i)  $32+32+32+4=100$   
 64 68; 1
- (ii) 2003; July  
 carrying capacity is  $18 \times 5=90$ ; 2
- (iii) compaction;  
 erosion;  
 injury to plants;  
 poor recovery growth; R references to animals any two 2  
 [13]