**HEIGHTS SECONDARY SCHOOL –THIKA  
FIRST-TERM 2017 FORM TWO   
MID-TERM EXAMINATION  
AGRICULTURE  
TIME: 2HOURS**

1. **a) distinguish the terms micro-nutrients and macro-nutrients (2mks)  
     
     
     
     
     
   (b) give any 2 examples on each of the following (2mks)  
   (i) micro-nutrients  
     
     
   (ii) macro nutrients**
2. **Give any 2 symptoms of nitrogen deficiency in plants (2mks)**
3. **Highlight any 5 characteristuics of nitrogeneos fertilizers (5mks)**
4. **List down the 5 methods of fertilizers applications (5mks)**
5. **John was advised to apply 300kg CAN/ ha,while topdressing; CAN contains 20% N. Calculate the amount of Nitrogen applied/ha (5mks)**
6. **(a) define the following terms (2mks)  
   (i) carbon cycle  
     
     
   (ii) nitrogen cycle  
     
   (b)list down the 3 ways in which carbon is returned to the atmosphere (3mks)  
     
     
     
     
   (c) give the 3 ways in which nitrogen is returned to the atmosphere (3mks)**
7. **(a) define soil sampling (2mks)  
     
     
   (b) list down the two methods of soil sampling (2mks)  
     
     
   (c) give the details that is required to be of the composite sample while sending it to the laboratory (3mk)**
8. **Define the term soil testing (2mks)  
     
     
     
   (b) give any 2 importance of soil testing (2mks)**
9. **List down any 5 characteristics of a fertile soil (5mks)**
10. **What does the following terms mean (4mks)  
      
    (a)straight fertilizer  
      
    (b) compound fertilizer**
11. **(a) give any 3 importance of soil PH to the growth of plants (3mks)   
      
      
      
    (b) define the term soil PH (2mks)**
12. **List down 5 advantages of using seeds as planting materials (5mks)**
13. **Give 2 disadvantages of using seeds as planting materials (2mks)**
14. **(a) define term ‘farm record’ (2mks)  
      
      
    (b)list down 5 importance of keeping proper farm records (5mks)**
15. **(a) highlight any 5 importance of keeping livestock (5mks)  
      
      
      
      
      
    (b) give any 2 characteristics of a good dairy cattle breed (2mks)**
16. **Give the meaning of the following terms as used in livestock production (10mks)  
    (i) bull  
      
    (ii) heifer  
      
    (iii)piglet  
      
      
    (iv) capon  
      
    (v) ewe**
17. **(a) list down the 5 major categories of farm tools and equipments (5mks)  
      
      
      
      
      
    (b) state the use of the following farm tools and equipments (6mks)  
      
    (i) panga  
      
    (ii) wheelbarrow  
      
    (ii) tape measure  
      
    (iv) trocar and canula  
      
    (v) knapsack sprayer  
      
    (vi) strip cup**