**FORM 4**

**TERM 2 2018**

**NAME…………………………………………………………. REG NO…………………………**

1. You are provided with specimen T and Q
2. State the habitat of specimen T (1mk)
3. Name the trophic level occupied by specimen T (1mk)
4. Give a reason for your answer in a(ii) above

b) Place 5ml of solution Q into 100ml beaker. Using a straw blow gently into the solution

ii) Record your observation (1mk)

iii) Account for the observation in b (i) above (1mk)

c) Place 5cm3 of solution Q into two 100ml beakers. Using a pair of forceps, place several strands of specimen T into one of the 100ml beakers. Place both beakers in the dark and leave them undisturbed for 1 hour

i) record observations (2mks)

ii) Explain the observations in (1) above (3mks)

1. In a class project carried out the following procedure

Day 1: caught 36 grasshoppers in a grassy lawn. The grasshoppers were marked with ink and released back to the lawn

Day 2: Caught 43 grasshoppers from the same lawn of the grasshoppers caught,6 had the mark made the previous day

1. Name the sampling method declared above (1mk)
2. From an ecologist point of view state a point of procedure that is missing (1mk)
3. Calculate the approximate size of the grasshopper population in the lawn (2mks)
4. Name 2 disadvantages of this method (2mks)
5. State 3 assumptions that must be made during this investigation (3mks)