**NAME:……………………………………………ADM:………………………CLASS:…………**

**BIOLOGY**

**FORM 1**

**CAT 1, T1, 2021**

1. Define the term Biology. (1mk)

* **Study of living things**
* **Branches of science which deals with the study of living things.**

1. State and define the three branches of biology. (6mks)

* **Botony- (Branch of biology) which deals with study of plants**
* **Zoology- (branch of biology) which deals with study of animals.**
* **Micro biology – (branch of biology) which deals with study of micro-organism.**

1. Outline four ways in which study of biology is applied. (4mks)

* **Pursue careers of medicine agriculture dentistry, public health**
* **Enhances international cooperation in areas like medicine, environmental conservation etc.**
* **Enhances understanding of human body developmental stages**
* List six characteristics of living things (6mks)
* **Imparts scientific skills. E.g. drawing, recording analyzing.**
* **Solving Environmental problems e.g pollution drought.**
* **They grow and develop**
* **They have nutrition/they utilize nutrients**
* **They respire**
* **They have gaseous exchange**
* **They reproduce**
* **They are irritable/respond to stimulus**
* **They excrete**
* **The move**

1. The table below shows common apparatus used to collect and observe specimen. Complete the table appropriately. (8mks

|  |  |  |
| --- | --- | --- |
| **DIAGRAM** | **NAME** | **USE** |
|  | **A hand lens** | **Enlarge objects under observation** |
|  | **A pit fall trap** | **Catching crawling animals** |
|  | **A pooter** | **Such small animals from surfaces eg barks of trees** |
|  | **A pair of forceps** | **Picking up small injurious specimen eg stinging nettle, spideus bees** |

1. Outline the precautions that should be taken during collection and observation of specimen.

* **immobilize highly mobile specimen**
* **Handle with care all ingenious or dangerous specimens like bees.**
* **return live specimen to their labitate (to maintain ecological balance)**
* **do not harm specimen during collection to avoid disturbance of parts)**
* **Collect only the number needed to avoid wastage.**

1. Explain how nutrition is different between plants and animals . (2mks)

* Animals feed in ready-made food. plants make then own food from water, carbon iv oxide and sunlight