**NAME……………………………………..CLASS…………………………………ADM…………………………..**

**ANESTAR SCHOOL**

**BIOLOGY FORM ONE**

**HOLIDAY ASSIGNEMENT**

1. Explain eight characteristics of living things (8mks)

b. State the main difference between plants and animals (5mks)

2. What is classification (2mks)

bi) List three external features used to classify plants and three external features used to classify animals(6mks)

c) State any FOUR principles followed during binomial nomenclature (4mks)

ii) Give TWO advantages of using binomial nomenclature (2mks)

3. Explain the procedure followed when using a microscope (4mks)

b) Explain the meaning of each of the following.

i) cell (1mk)

ii) Tissue (1mk)

iii) organ (1mk)

iv) organ system (1mk)

4) In a drawing of a giraffe, the height of the head from the ground was recorded as 10cm. The drawing also showed a magnification of 0.02. calculate the actual height of the giraffe (3mks)

5) Suggest an experiment to demonstrate diffusion (5mks)

ii) Explain what happens when plant and animal cells are put in hypotonic and hypertonic solutions. (8mks)

b) Outline the roles of active transport in living things (5mks)

5) Define the term photosynthesis (2mks)

ii) State the importance of photosynthesis. (4mks)

iii) Give a word equation for photosynthesis (2mks)

6) What are carbohydrates ? (1mk)

ii) Giving an example in each case name the groups of carbohydrates (3mk)

iii) Give five functions of proteins (5mks)

7) what are enzymes (1mk)

ii) State the properties of enzymes (4mks)

iii) Name two types of enzymes inhibitors (2mks)

8) Explain the various types of heterotrophic nutrition (4mks)

b) Differentiate between homodont and heterodont (2mks)

c) Describe the adaptations and functions of various types of mammalian teeth. (4mks)

9) Name the types of food substances that do not undergo digestion in human digestive system (4mks)

b) Explain how the mammalian intestines are adapted to perform their functions (6mks)