

NAME.....CLASS.....ADM.....

ANESTAR SCHOOL

BIOLOGY FORM ONE

HOLIDAY ASSIGNEMENT

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