

SMASK

BIOLOGY HOLIDAY WORK

SENIOR TWO

TEST ONE

- 1 a. State the general characteristics of kingdom Plantae (5mks)
- b) . During a field trip, a student came across a plant bearing flowers, and large green leaves with parallel veins. Giving reasons classify the plant from kingdom and class. 6mks

- c i) state three ways which are similar to Pteridophytes.
- ii) three ways in which bryophytes are different from pteridophytes.
- iii) State one major difference between the rhizoids of a moss and the roots of a fern.
- iv) State two economic importance of fungi.

2. a) Both bacteria and protozoa are unicellular organisms. Give two main reasons why they are classified under different phyla.
- b) *Plasmodium falciparum*, *Plasmodium vivax* and *Plasmodium ovale*.
 - i) Name the disease that they cause.
 - ii) Name the vector that transmits the parasites.
 - iii) Name the taxonomic group that is common to the three parasites
 - iv) Can these parasites interbreed? Give a reason for your answer.
- c) Draw a well labelled diagram of the internal structure of a dicotyledonous stem.
 - ii) Give the functions of the parts labelled.
- 3a) Explain ways by which soil loses its soil fertility
- b) Give ways of maintaining fertility of the soil.
- ci) Define soil erosion
 - ii) State the types of soil erosion
 - iii) Explain the causes of soil erosion
- 4a) Define the term enzyme.
 - ii) State five properties of enzymes
 - iii) Explain five factors that affect the rate of enzyme activity.
- b) Draw a well labelled structure of the alimentary canal of man.