**BIOLOGY**

**FORM 2**

**MID-TERM 2, 2022.**

**TIME :1 HR;15 MIN.**

**NAME……………………………………………………ADM NO……………CLASS….**

***Instructions to candidates***

***Answer All Questions In The Spaces Provided***

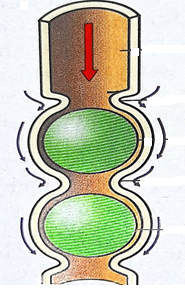
1. Give the reasons for each of the following steps when preparing a cross-section of a stem or leaf for examination under the microscope 4 mrks
2. Cutting very thin sections
3. Using a sharp razor blade during the cutting
4. Placing sections in water
5. Staining the sections with iodine before observing
6. Name the types of enzyme inhibitors 2 mrks
7. Name the process by which mineral salts enter into a plant 2mrks
8. Distinguish between the terms homodont and heterodont 2mrks

5. What are the functions of hydrochloric acid in digestion? 3mrks

1. Explain why blood leaving the lungs may not be fully oxygenated 2 mrks
2. Explain why blood flowing in blood vessels does not normally clot 1 mrk

1. State three precautions that must be taken before blood transfusion 3 mrks
2. Define the term gaseous exchange. 1mrk
3. Give three importance of gaseous exchange 3 mrks
4. State three structures in plants through which gaseous exchanges occur. 3 mrks
5. What are the advantages of having stomata open during daytime and having them closed at night? 3 mrks
6. State the four characteristics of respiratory surfaces in animals 4 mrks
7. Name the gaseous exchange surfaces of the following organisms; 4 mrks
8. Amoeba
9. Fish
10. Man
11. Grasshopper
12. Differentiate between gaseous exchange and respiration. 2 mrks
13. Make a well labelled diagram of a gill. 5 mrks

1. The figure below illustrates a process that takes place in the alimentary canal.



a. Name the process. 1 mrk

b. Name two muscles that enhance the above process. 2 mrks

c. Explain the importance of roughage to the above process. 1 mrk

d. State how the stomach protects its walls against digestion by enzyme pepsin. 2 mrks