**GATITU DAY MIXED SEC SCHOOL TIME: 40 MIN**

**BIOLOGY FORM TWO C.A.T 1**

**TERM II 2012**

**INSTRUCTIONS: Answer all the questions from this paper.**

1. Distinguish between

 a. Open and closed circulation (2mks)

 b. Single and double circulation (2mks)

2. State and discuss the two types of immunity (4mks)

3. Excessive blood loss can be rectified by blood transfusion in which blood from one person, the donor, is transferred into the patient’s blood system. Compare the table below: (4mks)

|  |  |  |
| --- | --- | --- |
| Group | Can donate blood to | Can receive from |
| A |  | AO |
| B | B and AB |  |
| AB |  | A, AB, B, O |
| O | A, B, AB, O |  |

 b. What are the advantages and disadvantages of having blood group O? (2mks)

 c. What is the advantage of having blood group AB.? (1mk)

 d. What name is of the person with blood group (2mks)

 i. AB

 ii. O

4. Give 3 differences between arteries and veins (3mks)

5. Differentiate between osmosis and diffusion (2mks)

6. Give 3 factors that determine energy requirements in human beings (3mks)

7. i. Give 2 transport tissues in plants (2mks)

 ii. State the functions of each tissue in (i ) above (2mks)

8. Give the name of the transport fluid in insects (1mk)