**NAME: ……………………………………………ADM.NO.…………….STREAM…………**

**BIOLOGY FORM TWO**

**END OF TERM EXAM – TERM TWO 2015.**

* **Answer all questions in the spaces provided.**

1. The diagram is from a cross-section of dicotyledonous plant stem. Study it and answer the question.
2. Identify the parts labeled P, Q, R and S. (4 marks)

P\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

R \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

S \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. State the functions of part labeled R and S. (2 marks)
2. (a) Define the following terms:- (3 marks)
3. Blood transfusion
4. Universal recipient
5. Universal donor

(b) State the differences between arteries and veins. (4 marks)

(c) State the main functions of plasma. (4 marks)

(d) Give out three diseases of circulatory system. (3 marks)

(e) Name the blood vessels that convey blood to:- (3 marks)

1. Lungs
2. Liver
3. Kidneys
4. (a) Name three examples of disaccharides. (3 marks)

(b) Name the properties of disaccharides. (3 marks)

(c) State the differences between reducing and non-reducing sugar. (2 marks)

1. The diagram below represents organelle found in the cells of living organisms.
2. What is the name of the organelle? (1 mark)
3. Name parts labeled A, B and C. (3 marks)

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the function of the organelle? (1 mark)
2. Name two cells in animals’ bodies where the organelle is found in large numbers.

(2 marks)

1. Study the diagram and answer the questions that follow:-
2. Name the structure. (1 mark)
3. Identify the part labeled A, B and C. (3 marks)

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. State functions of gill rakers. (1 mark)
2. Explain the meaning of the following terms: (6 marks)
3. Respiration
4. Respiratory quotient
5. Oxygen debt
6. State one use for each of the following apparatus in the study of living organisms.
7. Pooter (1 mark)
8. Pitfall (1 mark)
9. State the functions of the following parts of a light microscope. (2 marks)
10. Ribosomes
11. Lysosomes
12. Define the following terms:-
13. Excretion (2 marks)
14. Egestion (2 marks)
15. Secretion (2 marks)
16. Homeostasis (1 mark)
17. Describe the process of inhalation in mammals. (10 marks)