**UNIVERSITY OF KABIANGA**

**UNIVERSITY EXAMINATIONS**

**2014/2015 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY**

**COURSE CODE: BIO 310**

**COURSE TITLE: PROTEINS, ENZYMES AND VITAMINS**

**DATE: 10/12/2014**

**TIME: 2.00 P.M-5.00 P.M**

**INSTRUCTIONS TO CANDIDATES:**

Answer **ALL** questions.

1. Draw the chemical structure of fat soluble vitamins.(6 marks)

2. Give physical properties of proteins. (8 marks)

3. Describe how enzymatic activity is influenced by PH. (8 marks)

4. Mention the **six** basic steps involved in sequencing of amino acids in proteins. (6 marks)

5. With the aid of structures, discuss biochemically how vitamin B1 works. (10 marks)

6. Discuss any **four** types of enzyme immobilization. (12 marks)

7. Describe the structure of haemoglobin. (10 marks)

8. Discuss the noncompetitive inhibition. (10 marks)