



# **SOUTH EASTERN KENYA UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2016/2017**

### **FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY AND MOLECULAR BIOLOGY**

**BCH 411: MEDICAL BIOCHEMISTRY II**

**14<sup>TH</sup> DECEMBER, 2016**

**TIME:8.00-10.00 A.M**

#### **INSTRUCTIONS TO CANDIDATES**

- (a) Answer ALL the Questions in Section A**
- (b) Answer ANY TWO Questions in Section B**
- (c) Illustrate your answers with well labeled diagrams where appropriate**

#### **Section A (30 Marks)**

1. Describe the chemical classification of hormones. **(4 Marks)**
2. Discuss briefly receptor agonists. **(6 Marks)**
3. Discuss briefly the two types of glands. **(5 Marks)**
4. Describe briefly the cytochrome P450 system. **(6 Marks)**
5. Discuss briefly osteogenesis imperfecta. **(5 Marks)**
6. List the different bone functions. **(4 Marks)**

#### **Section B (40 Marks)**

7. Discuss in detail the anterior pituitary and the posterior pituitary. **(20 Marks)**

8. Discuss in detail the drug receptor interaction. **(20 Marks)**
9. Discuss signal transduction in detail. **(20 Marks)**
10. a) Describe the factors that affect drug metabolism. **(10 Marks)**
- b) Discuss the glycoprotein synthesis. **(10 Marks)**