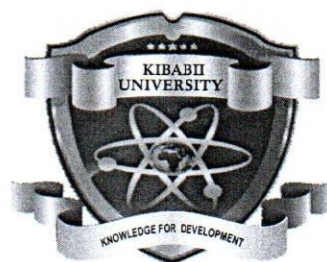


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*(Knowledge for Development)*

# **KIBABII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR**

### **FOURTH YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE,  
EDUCATION**

**COURSE CODE:** SBT 411

**COURSE TITLE:** PLANT BIOCHEMISTRY

**DATE:** 11<sup>th</sup> October, 2018 **TIME:** 8:00 -10:00 a.m.

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#### **INSTRUCTIONS TO CANDIDATES**

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBUCO observes ZERO tolerance to examination cheating

1. (a) (i) Outline the two essential functions of light in photosynthetic process. (2 marks)  
(ii) Name three electron acceptors involved in electron transport during Photosynthetic process. (3 marks)  
(iii) Describe photophosphorylation in green plants. (5marks)
- (b) (i) Outline any two significance of lipoproteins to in living organisms. (2 marks)  
(ii) Explain energy storage as a biological significance of lipids. (3 marks)  
(iii) Describe peroximal beta oxidation of fatty acids. (5 marks)
- (c) (i) Name the three stop codons involved in the termination of the translocation process. (3 marks)  
(ii) Name the three active sites of the ribosome. (3 marks)  
(iii) Differentiate between translocation and transcription. (4 marks)
2. Describe lipid metabolism. (20 Marks)
3. Discuss Protein modification. (20 Marks)
4. Discuss the occurrence of carbohydrates. (20 Marks)
5. Discuss stereoisomerism in amino acids. (20 Marks)