



KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2019/2020 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER

SUPPLEMENTARY/SPECIAL EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULRE AND BIOTECHNOLOGY

COURSE CODE: SAB 430

COURSE TITLE: SEED SCIENCE AND TECHNOLOGY

DATE: 05/02/2021. TIME: 8-10AM.

INSTRUCTIONS TO CANDIDATES

Answer Question One (COMPLUSORY) and Any other TWO (2) Questions TIME: 2 Hours

This Paper Consists of 2 Printed Pages. Please Turn Over.

QUESTION ONE (COMPULSORY)	(30 MKS)
 a. Briefly explain the SIX steps of seed formation b. Differentiate between Angiosperms and Gymnosperms. c. Outline any THREE roles of seed technology in the seed industry d. Describe the products of Glycolysis. e. Describe any THREE causes of seed dormancy f. Using a diagram, describe epigeal type of seed germination. QUESTION TWO Outline the procedure steps followed in seed certification process. QUESTION THREE 	(6 Marks) (6 Marks) (3 MKS) (4 Marks) (9 Marks) (2 marks)
a. Describe any FIVE requirements for producing certified seeds.b. Describe any FIVE classes of seed	(10 Marks) (10 Marks)
QUESTION FOUR Discuss any FIVE parameters used in measuring seed quality	(20 MKS)
QUESTION FIVE	
 a. Describe the procedure of breeding a pure line towards producing a hybrid seed. (16 Marks) b. Briefly explain any TWO limitations of conventional breeding. (4 Marks) 	