



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER

MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE

COURSE CODE: SAB 430

COURSE TITLE: SEED SCIENCE AND TECHNOLOGY

DATE: 14TH JULY 2021

TIME: 2PM-4 PM

INSTRUCTIONS TO CANDIDATES

Answer Question One (COMPULSORY) and Any other TWO (2) Questions

TIME: 2 Hours

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

 QUESTION ONE (COMPULSORY) a. Describe FOUR genetic principles of seed technology b. Describe THREE main features of breeding in seed technology c. Outline two methods of seed purity analysis d. List the functions of the following in seed formation and development: Stamen 	(30 MKS) (8 MKS) (6 MKS) (2 MKS)
ii. Pistil	(2 MKS) (2 MKS)
e. Describe FIVE classes of seed	(10 MKS)
QUESTION TWO a. Describe the following types of seed dormancy:	
 i. Exogenous seed dormancy ii. Endogenous seed dormancy iii. Secondary seed dormancy b. Outline SIX agronomic principles of seed production 	(3 MKS) (3 MKS) (2 MKS) (12 MKS)
QUESTION THREE	
a. List FIVE steps in seed certification procedurea. Outline FOUR factors that determine the choice of seed drying methodb. List TWO main objectives of seed certification.	(10 MKS) d. (8 MKS) (2 MKS)
 QUESTION FOUR a. Describe the following types of seed; i. Recalcitrant seed ii. Orthodox seed b. List THREE methods of breaking seed dormancy c. Outline two methods of seed purity analysis 	(5 MKS) (5 MKS) (6 MKS). (4 MKS)