



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

THIRD YEAR 2ND SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE
EDUCATION AND EXTENSION**

COURSE CODE: ACR 324/SAB 332
COURSE TITLE: CROP PROTECTION

DATE: 19TH JANUARY 2022

TIME: 8 – 10 AM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

Q1. a) Differentiate between the symptoms and signs of a plant disease (2 marks)

b) List any 3 categories of plant disease symptoms based on morphology (3 marks)

c) Using a diagram, illustrate general equilibrium, economic threshold, economic injury levels as applied in insect pest management (5 marks)

d) Define the following

i) Integrated pest management (IPM) (2 marks)

ii) Crop pathology (2marks)

iii) Host plant resistance (2 marks)

iv) Allelopathy (2 marks)

e) List six (6) important weeds identified in your community(3 marks)

f) Explain the importance of disease forecasting (2mks)

g) List (3) Forms of herbicide formulation(3marks)

h) List the agents of weed seeds dispersal(3 marks)

Q2.a) List Precautionary measures to be observed during field application of pesticides (3marks)

b) What are the side effects of insecticide use in agriculture (3marks)

c) One of the most important parts of an insect to the farmer is the '***Insect Mouth Part***'. Discuss(14 marks)

Q3. a) Define metamorphosis? (2marks)

b) List (3) categories of pesticides (3marks)

c) Explain the application of Cost Benefit ratio (CBR) in the choice of plant disease /insect control strategies (5marks)

d) Illustrate diagrammatically the two types of metamorphosis (10marks)

Q4.a) Discuss the economic importance of weeds (5 marks)

b) Briefly explain principles of plant disease control (5marks)

c) Outline the Classification of weeds based on life cycle, habitat, growth habit, morphology and climate (10marks)

Q5. Write brief notes covering etiology, host range, symptomatology, epidemiology and control of common bean Anthracnose). (20 marks)