

NATIONAL SENIOR CERTIFICATE

GRADE 11

AGRICULTURAL SCIENCES
TOPIC TEST
12 APRIL 2024

MARKS: 50

TIME: 1 ½ HOURS

INSTRUCTIONS AND INFORMATION

1. This question paper consists of TWO sections, namely SECTION A and SECTION B.
2. Answer ALL the questions in the ANSWER BOOK.
3. Start EACH question on a NEW page.
4. Number the answers correctly according to the numbering system used in this question paper.
5. Non-programmable calculators may be used.
6. Show ALL your calculations, including formulae, where applicable.
7. Write neatly and legibly.

THE QUESTION PAPER CONTAIN 5 PAGES

Term 3 Agricultural Science Control Test

Jae Yang



Term 3 Agricultural Science Control Test:

Precise Chemical Application Technology for Horticultural Crops Xiaolan Lv, Andreas Herbst, Jianli Song, Xue Li, 2024-06-03 Plant chemical protection uses professional spraying machines to transport chemicals such as pesticides and herbicides to the target sites for pest disease and weed control in crop production. Such practices play a vital role in ensuring the supply of food fruits and vegetables for human beings. However, traditional plant chemical application methods suffer from excessive pesticide use, low utilization rate, and high labor intensity due to the backwardness of the existing sprayers, the single atomization technology, etc. In order to boost the progress of modern agriculture, plant chemical protection should be oriented toward efficient, accurate, and intelligent application technologies and equipment. Smart chemical application technology and efficient equipment can effectively reduce pesticide usage, mitigate the harm of chemicals to the environment, and lower labor intensity, realizing the sustainable development of disease and pest control of horticultural crops, ensuring food safety and maintaining crop yield and quality.

Water Quality Instructional Resources Information System (IRIS), 1979 **EPA-430/1**, 1979-05 The Soils of Korea Jae Yang, 2025-07-02 This book offers an in-depth exploration of Korean soils, emphasizing their unique characteristics, historical significance, and innovative management practices. Soil is the foundation of life on Earth, providing essential resources for food, clothing, and shelter. In Korea, soil management has been pivotal in shaping agriculture, economy, culture, and environmental sustainability. Over the decades, Korean agriculture has evolved significantly, transitioning from production-focused strategies in the mid-twentieth century to sustainable and eco-friendly practices in recent years. Korean soil scientists have been at the forefront of these advancements, pioneering innovations in soil classification, fertilization programs, and the application of technologies like artificial intelligence. These contributions have established Korea as a global leader in soil science, highlighted by its successful hosting of the 2014 World Congress of Soil Science. This comprehensive book examines Korea's soil types, primarily derived from igneous and metamorphic rocks, and their diverse applications in rice paddies, upland fields, and greenhouses. It also explores the cultural and ecological value of soil, including its role in shaping Korean traditions and its contribution to ecosystem services. This book is an essential resource for researchers, policymakers, and anyone interested in soil science and sustainability. This book provides valuable insights into the profound ways soil has shaped Korea's past, present, and future, offering a window into one of the world's most dynamic soil landscapes.

Agricultural Research, 1973 *Advanced Statistical Methods in Life Science* Basavarajaiah D.M., Narasimhamurthy B., 2025-07-25 This book introduces the principles and foundations of advanced statistical methods for designing experiments and testing hypotheses in life sciences. Advanced statistical methods such as testing of hypotheses, recent methods of sample size determination, imputation, estimation techniques, probability distributions, and univariate analysis demonstrated with real data and their integration into life sciences are included in this book. Advanced topics are presented with sufficient conceptual depth and examples to explain the use of recent statistical

techniques and to demonstrate what conclusions can be drawn at the right time using modeling in life science research Key features Explains the derivation of statistical models to prove disease transmission using massive real world datasets to explore practical applicability Incorporates the application of innovative advanced statistical and epidemiological models and demonstrates the possible solutions for public health policy intervention Helps to understand the process of hypothesis testing in small or larger observations by using weighted parameters Presents suitable examples and real life research datasets and all models can easily be followed in formulating statistical and mathematical derivations and key points Includes machine learning ML statistical methods for meta analysis testing of hypotheses methods of imputation estimation techniques probability distributions univariate analysis and recent nonparametric methods all illustrated through actual data This textbook is for students and scholars of various courses in life sciences medicine mathematics and statistical science It will also help academicians and researchers to understand the foundation of this topic **Selected Water Resources**

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