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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF CROP AND SOIL SCIENCE

EXAMINATION: 2021 1 POP EXAMINATION 7836

COURSE TITLE: ANALYTICAL TECHNIQUES IN AGRICULTURE (3 CU)

COURSE CODE: AGR 503 TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer 4 questions in all

Question 1 is compulsory (25 marks) and any other THREE questions (15 marks each)

TIME ALLOWED: 2 1/2 Hours

Q1

- a. What do you understand by safety principles in Agricultural laboratories? (5 marks)
- b. Outline 10 different categories where safety is necessary in laboratories (10 marks)
- c. Briefly discuss 5 sources of contaminants in the laboratories and how to handle it

(10 marks)

Q2

- a. Explain the term "Good Laboratory Practice" (GLP) (5 marks)
- b. What are the expected results of GLP when adequately applied (7 marks)
- c. What is the short message of GLP (3 marks)

Q3

- a. What do we use proximate analyses for? (3 marks)
 b. What is Risk Analysis in Animal Health? (4 marks)
- c. Briefly explain four (4) components of Risk Analysis (8 marks)

Q4

- a. Briefly explain crop sampling (5 marks)
- b. State 10 precautions during plant tissues sample preparation (10 marks)

Q5

- a. State the two (2) main categories of microscopy
 b. Mention the different types under each category
 (2 marks)
 (6 marks)
- c. State the parts and functions of an optic microscope (7 marks)