

NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF CROP AND SOIL SCIENCE 2024 1 EXAMINATION

COURSE TITLE: PRINCIPLES OF CROP PROTECTION (2 CU)

COURSE CODE: CRP 303 TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer 3 questions in all

Question 1 is compulsory (30 marks) and any other TWO questions (20 marks each)

TIME ALLOWED: 2 1/2 Hours

13marks 1a. Elucidate with examples, the three (3) categories of damages caused by insect pests. 8marks b. What do you understand by the term "mesobiotic causes" of disease? 9marks c. List the method of weed control in Preventive Weed Management System.

2a. Evaluate "Millet head miner (Helioceilus albipunctella de Joannis)" as an insect pest of cereals in 14marks Nigeria.

b. Write very short notes on the following as symptoms of disease;

i. Sclerotia, iii. Necrosis, iii. Anthracnose 6marks

Discuss "Contarinia coquilite" on the following headings;

i. common name 1 marks ii. morphology 2marks iii. mode of spread 3marks iv. major and minor hosts **lmarks** v. part of plant affected Imarks vi. control 6marks b. List the cultural control methods of Oryza sativa and O. globerrima white stem borer (maliarpha

separatella). 6marks

4a. Discuss the abiotic factors that cause diseases/disorders in plants.

14marks Enumerate the damages caused by storage pests. 6marks