

2016/2017 ACADEMIC YEAR FIRST SEMESTER EXAMINATION

FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTERS OF SCIENCE (PLANT BREEDING)

ACS 603: CROP PEST MANAGEMENT

DATE: NOVEMBER 29, 2016

TIME: 2:00-4:00

INSTRUCTIONS:

Answer ANY FOUR Questions

QUESTION ONE (25 MARKS)

a) Give the scientific names of any five invasive weeds, their origin and spread.

(10 marks)

b) Describe the categories of plant disease symptoms.

(10 marks)

c) Describe the effects of weed management on crop quality.

(5 marks)

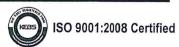
QUESTION TWO (25 MARKS)

a) Citing specific examples outline the role of climate change on weed species dynamics.

(15 marks)

b) Discuss the economic importance of plant diseases.

(10 marks)



QUESTION THREE (25 MARKS)

a) Citing successful examples explain biological management of an invasive weed species.

(15 marks)

b) Describe the role of biotechnology in weed science.

(10 marks)

QUESTION FOUR (25 MARKS)

- a) You have been provided with a plant tissue with symptoms suspected to be of a fungal pathogen. Describe how you would isolate the pathogen from the tissue. (15 marks)
- b) Describe how you would identify the fungal pathogen based on different characteristics.

(10 marks)

QUESTION FIVE (25 MARKS)

a) Discuss the environmental factors that influence development of a disease epidemic.

(8 marks)

b) Outline the classification of Insects.

(9 marks)

c) Describe the measures that have been taken in determining the safety of environment in crop protection. (8 marks)

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