

1ST SEMESTER 2014/2015 (S)



PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY YEAR 2

COURSE CODE: CP 202

TITLE OF PAPER: MUSHROOM PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

QUESTION 1

Discuss the different types of toxins produced by poisonous mushrooms and give an example of a mushroom that produces that toxin. **(25 Marks)**

QUESTION 2

Using a diagram, outline and label different parts of a typical mushroom. Explain the functions of each part. **(25 Marks)**

QUESTION 3

a. Define the following terminologies in mushroom production:

- i. Carrier **(3 Marks)**
- ii. Tissue culture **(3 Marks)**
- iii. Spawn culture **(4 Marks)**
- iv. Mother culture **(3 Marks)**
- v. Substrate **(3 Marks)**

b. i Explain why one should not subculture a mushroom fungus indefinitely. **(3 Marks)**

ii. What is the recommended number of times that one can subculture a mushroom fungus? **(2 Marks)**

c. What carrier would you recommend for oyster mushroom spawn production in Swaziland and why? **(4 Marks)**

(25 Marks)

QUESTION 4

As an Extension Officer, give advice to a farmer who would like to start Oyster mushroom production in the Lowveld of Swaziland (hot and dry). **(25 Marks)**

QUESTION 5

Discuss diseases that can be a problem in mushroom farming and explain how one could manage/control them. **(25 Marks)**