

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE

BOTA 334: TECHNIQUES OF MUSHROOM PRODUCTION

STREAMS: (Y3S2)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 07/07/2021

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- Answer all questions in section A and any two in section B
- Do not write anything on the question paper
- Use illustrations where appropriate to enhance your answer

Section A (30 MARKS)

1. a) Define the following terms. (3 marks)
 - (i) Haustorian
 - (ii) Mycorrhizal fungus:
 - (iii) Saprophytic fungi
- b) List different phases of mushroom growth (3 marks)
2. Classify mushroom based on the structural purposes of the fruiting body. (4 marks)
3. List five nutritional attributes of mushroom. (5 marks)
4. Explain steps you would take to collect wild fungi from forests. (5 marks)
5. Explain why Oyster mushrooms are preferred by farmers compared to other types of mushroom. (5 marks)
6. Discuss five phenotypic characteristics used in identification of fungi. (5 marks)

SECTION B (40 MARKS)

- 7. a) Discuss measures of mushroom preservations to prevent post-harvest losses. (10 marks)
- b) During spawning process, various measures are taken to control contamination. Discuss. (10 marks)

- 8. Discuss the process of substrate preparation and treatment of mushroom cultivation. (20 marks)

- 9. a) Describe the practical steps that are involved in mushroom cultivation. (10 marks)
- b) Discuss challenges in mushroom production. (10 marks)

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