

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN  
BOTA 334: TECHNIQUES OF MUSHROOM PRODUCTION**

**STREAMS: BOTA**

**TIME: 2 HOURS**

**DAY/DATE: FRIDAY 17/04/2020**

**8.30 A.M. – 10.30 A.M.**

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**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 as applied in techniques of mushroom production.
  - (i) Haustorium (3 marks)
  - (ii) Mycorrhizal fungus
  - (iii) Saprophytic fungi
- (b) Discuss different phases of mushroom growth. (3 marks)
2. Classify mushrooms based on structural purposes of the fruiting body. (4 marks)
3. Outline five nutritional attributes of mushroom. (5 marks)
4. Explain steps you would take to collect wild mushroom from forests. (5 marks)
5. Explain why a farmer would prefer to grow Oyster mushroom compared to other types of mushroom. (5 marks)
6. Discuss phenotypic characteristics that are used in identification of mushroom. (5 marks)

**SECTION B (40 MARKS)**

7. (a) Discuss mushroom preservation measures to prevent post-harvest losses. (10 marks)
- (b) During spawning process, various measures are taken to control contamination. Discuss. (10 marks)
8. Discuss substrate preparation and treatment for mushroom cultivation. (20 marks)
9. (a) Describe the practical steps that are involved in mushroom cultivation. (10 marks)
- (b) Discuss challenges that one may encounter during mushroom production. (10 marks)
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