

CHUKA



UNIVERSITY

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**EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE IN EDUCATION AND BACHELOR OF SCIENCE**

BOTA 342: ECONOMIC BOTANY

STREAMS: BED (SCI), BSC

TIME: 2 HOURS

DAY/DATE: TUESDAY 10/12/2019

11.30 AM – 1.30 PM

INSTRUCTIONS:

Answer All Questions in Section A and any other Two in Section B

SECTION A (30 MARKS)

1. Explain how the following secondary metabolites are screened:
 - (a) Alkaloids [3 marks]
 - (b) Saponins [2 marks]
2. Classify fatty oils citing examples in each case. [5 marks]
3. Explain the principle operations in the preparation of black tea. [5 marks]
4. Describe the process of manufacturing sugar. [5 marks]
5. Discuss the primary centres of diversity of crops. [5 marks]
6. Discuss briefly the extraction methods of essential oils. [5 marks]

SECTION B (40 MARKS)

7. Discuss the following:
 - (a) Application of any five drugs extracted from plants. [10 marks]

(b) Medicinal uses of any five plants that have multiple bioactive compounds. [10 marks]

8. Discuss the economic importance of the following:

(a) Wood and cork [10 marks]

(b) Algae [10 marks]

9. Discuss the following:

(a) Byproducts of *Saccharum officinarum*. [10 marks]

(b) Plant antifeedants [10 marks]
