

CHUKA UNIVERSITY

THIRD YEAR EXAMINATION BMED 340: DRUG AND FOOD STANDARDIZATION

STREAM: Y3S2 BSc. BIOMEDICAL SCIENCE AND TECHNOLOGY

TIME: 2 HOURS

INSTRUCTIONS

- i. Answer Question One and any other Two Questions**
- ii. Do not write on the question paper**

Question One (30 marks)

- a. Describe briefly the quality management standard, ISO 9000 (8 marks)
- b. Name any six functions of Kenya Bureau of Standards. (3 marks)
- c. Use of pesticides has advance effects on the environment due to residual effects. Discuss briefly its effects on plants. (8 marks)
- d. What are sources and the possible side effects of using the following food preservatives?
 - i. Sodium benzoate (2 marks)
 - ii. Sulphur Dioxide (2 marks)
 - iii. Sodium metabisulphite (2 mark)
- e. What is the role of the National Codex committee? (5marks)

Question Two (20 marks)

- a. What are the possible negative effects of using Saccharin and High fructose corn syrup as flavoring and sweeteners? (5 marks)
- b. Distinguish between drug dependence and drug addiction. (5 marks)
- c. What are the aims and objectives of KEBS? (10 marks)

Question Three (20 marks)

- a. Discuss stimulants under the following subtopics:
 - i. Description (2 marks)
 - ii. Their effects on the body and brain (4 marks)

- iii. Consequences of use and abuse (4 marks)
- b. What are the effects of agricultural residues on food chain and environment? (10 marks)

Question Four (20 marks)

- a. State briefly the benefits of ISO standards. (5 marks)
- b. What is Codex Alimentarius Commission and what are its functions? (5 marks)
- c. List at least 10 steps that can be taken to ensure milk and meat meant for human consumption is free of antibiotic residues. (10 marks)