

UNIVERSITY OF ESWATINI Faculty of Health Sciences Department of Environmental Health Science

BSc IN ENVIRONMENTAL HEALTH SCIENCE MAIN EXAMAMINATION PAPER SEP 2020

TITLE OF PAPER:

FOOD SAFETY & INSPECTION

COURSE CODE:

EHM 410

DURATION:

2 HOURS

MARKS:

100

INSTRUCTIONS:

READ THE QUESTIONS & INSTRUCTIONS CAREFULLY

ANSWER ANY FOUR QUESTIONS

EACH QUESTION CARRIES 25 MARKS

BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER

WRITE NEATLY AND CLEARLY

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR

EHM 410 MAIN EXAMINATION PAPER, SEPTEMBER 2020

QUESTION ONE 1. Canned food spoilage may occur either microbiologically or non-microbiological (chemically). List four possible microbiological causes of spoilage in canned food. [4 Marks] 2. Why is carbon dioxide added in beverages? [5 Marks] 3. Explain the difference between brown and white rice. [4 Marks] 4. Why do people who want to lose weight prefer rye bread? [4 Marks] 5. List three milk conditions caused by spoilage microorganisms. [3 Marks] 6. Which good egg practices would you implement during egg production? [5 Marks] [25 Total Marks] **QUESTION TWO** 1. Why is it necessary to conduct inspections of food and food establishments? [5 Marks] 2. Briefly discuss the roles and responsibilities of the following, for food safety and quality, within the food chain. [10 Marks] i) The Farmer ii) The Processor iii) Handlers iv) The Government v) The Consumer 3. Describe the following conditions of spoiled cans: [6 Marks] i) Flipper ii) Springer iii) Hard swell 4. What is a health claim? [2 Marks] 5. List two types of products to which health claims do not apply. [4 Marks] [25 Total Marks] **QUESTION THREE** 1. What are the objectives of risk-based food inspection? [4 Marks] 2. Briefly describe the traditional food inspection system and its challenges. [10 Marks] 3. Briefly describe risk-based inspection procedure. [6 Marks] 4. List **five** general conditions that cause spoilage and deterioration in vegetables and fruits. [5 Marks] [25 Total Marks] **QUESTION FOUR** 1. What makes bad eggs float in water? [6 Marks] 2. Cheese can be divided into many types. Name four conditions that determine the type of [4 Mark] 3. Illustrate the process of determining the category of a secondary food establishment using a decision tree diagram. [10 Marks] 4. What is a food establishment? List five of the undertakings of food establishments. [5 Marks] [25 Total Marks]

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QUESTION FIVE

1. Discuss the following types of food businesses.

[15 Marks]

- i) High-risk Establishments/businesses
- ii) Medium-risk Establishments/ businesses
- iii)Low-risk Establishments/ businesses
- 2. How does 'soft' rot develop on fruits and vegetables?

[10 Marks] (25 Total Marks)