



MACHAKOS UNIVERSITY

University Examinations 2021/2022 Academic Year

SCHOOL OF HOSPITALITY AND TOURISM

DEPARTMENT OF FASHION HOSPITALITY

..... Year SEMESTER EXAMINATION FOR

CERTIFICATE IN FOOD AND BEVERAGE PRODUCTION AND SERVICE

FOOD SCIENCE AND NUTRITION

DATE:

TIME:

INSTRUCTIONS

This paper consists of section A and B

Section A is compulsory and carries 40 marks

In section B attempt any three questions – 60marks

SECTION A (40MARKS)

Attempt all the questions from this section

1. Distinguish between the following terms
 - a) Acid and bases
 - b) Oestomalacia and keratomalecia
 - c) Digestion and absorption (6 marks)
2. State any **four** uses of alkynes (4 marks)
3. Highlight any **four** factors that affect the rate of enzyme reaction (4 marks)
4. State any **four** ways on how one can transmit HIV/AIDS (4 marks)
5. State any **four** properties of bases (4 marks)
6. Explain any **four** functions of nutrients in the body (4 marks)
7. Highlight **four** symptoms of kwashiorkor (4 marks)

8. State **four** ways on how a mother can prevent obesity to her teenage child (4 marks)
9. Explain the process of digestion in human being (6 marks)

Section B- (60marks)- Attempt any three questions in this section

10. a) Explain any **five** industrial application of enzyme (10 marks)
- b) Explain **four** factors that influence water needs in our body (4 marks)
- c) State any **six** functions of water in our bodies (6 marks)
11. a) Explain **five** causes of malnutrition in developing countries (10 marks)
- b) Highlight **five** problems associated with old age (5 marks)
- c) State **five** symptoms of anorexia nervosa disorder (5 marks)
12. a) State **five** functions of food additives (5 marks)
- b) Highlight the uses of food additive in catering establishment (5 marks)
- c) Explain any **five** principles of food preservation (10 marks)
13. a) Food can be made unfit for human consumption by various agents. Explain five causes of food spoilage. (10 marks)
- b) Explain how food and beverage production staff can prevent food spoilage (10 marks)