

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THARAKA CAMPUS

EXAMINATION FOR THE AWARD OF DIPLOMA OF EDUCATION

PECI 0122: INTRODUCTION TO SERVICE AND AGRICULTURE

STREAMS: PECI (SB)

TIME: 2 HOURS

DAY/DATE: TUESDAY 06/08/2019

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- **Answer question ONE and any other TWO questions**

QUESTION 1 (30 MARKS)

- (a) Highlight on importance of fungi to human beings. (4 marks)
- (b) What is the role of bacteria in nature? (6 marks)
- (c) Define the term environment and state its components. (4 marks)
- (d) Suggest five solutions to air pollutions. (3 marks)
- (e) State four properties of soil. (4 marks)
- (f) Discuss the characteristics of plantations agriculture. (4 marks)
- (g) State four main sources of water. (4 marks)
- (h) State the SI Units of the following measurements.
- (i) Length (1 mark)
- (ii) Electricity (1 mark)

QUESTION 2 (20 MARKS)

- (a) Explain the Kinetic theory of motion using Brown's movement. (6 marks)
- (b) Explain various types of energy with examples. (8 marks)
- (c) Differentiate between Power and Work. (4 marks)
- (d) State what force can do to stationary object. (2 marks)

QUESTION 3 (20 MARKS)

- (a) State the physical properties used to ascertain the purity of a substance. (4 marks)
- (b) Explain how you can treat hard water. (10 marks)
- (c) State three properties of hydrogen. (3 marks)
- (d) State three uses of hydrogen. (3 marks)

QUESTION 4 (20 MARKS)

- (a) Advice on how this county governments can improve on pastoral areas. (10 marks)
- (b) Explain factors (environmental which do influence agriculture). (8 marks)
- (c) State any two elements which composes soil. (2 marks)

QUESTION 5 (20 MARKS)

- (a) Explain various causes of soil degradations. (8 marks)
 - (b) Explain various problems created by man to the environment. (8 marks)
 - (c) How can we prevent infections of bacteria to human body? (4 marks)
-