

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

SUPPLEMENTARY /SPECIAL EXAM

EXAMINATION FOR THE AWARD OF DIPLOMA IN EDUCATION (PRIMARY  
OPTION)

PECI 0122: INTRODUCTION TO SCIENCE AND AGRICULTURE

STREAM: DIP. EDUC

TIME: 2 HOURS

DAY/DATE: MONDAY 16/11/2020

11.30 A.M. – 1.30 P.M.

**INSTRUCTIONS: Answer All the questions**

1. (a) Describe the uses of water in the human body (10 marks)  
(b) Explain ways in which water hardness can be removed (10 marks)
2. (a) Discuss five environmental factors that affect agriculture (10 marks)  
(b) Describe the basic constituents of soil (10 marks)
3. (a) In measurements, there are seven basic quantities. Describe any five and state their SI units (10 marks)  
(b) Discuss the characteristics of living things (10 marks)
4. (a) You are provided with copper wires, two dry cells, a switch and a bulb  
(i) Draw an electric circuit containing all the indicated items (5 marks)  
(ii) Differentiate between an open and closed circuit (5 marks)  
(b) Explain five ways in which environmental pollution can be reduced (10 marks)
5. Discuss any five methods you can use to teach Science and Agriculture to your class seven pupils (20 marks)