

**CHUKA**



**UNIVERSITY**

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**UNIVERSITY EXAMINATIONS  
EMBU CAMPUS**

**EXAMINATION FOR THE AWARD OF DIPLOMA IN EDUCATION (EARLY  
CHILDHOOD STUDIES)**

**ECDE 0234: SCIENCE AND ENVIRONMENTAL EDUCATION**

**STREAM:**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 13/08/2018**

**8.30 A.M – 10.30 A.M**

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**INSTRUCTION:**

- **Question all questions in section A and any three questions in section B**

**SECTION A**

1. (a) Discuss the objectives for teaching science and environmental education in a pre-school. [10marks]  
(b) Explain scientific skills developed by learners when conducting an experiment on floating and sinking. [10marks]  
(c) Describe at least five themes taught in ECDE science and environmental education. [5marks]

**SECTION B**

2. Discuss Jean Piaget's theory of cognitive development and its implication in teaching science activity area. [15marks]
3. State and explain teaching and learning resources used by ECDE teacher to teach science and environmental activity area. [15marks]
4. Describe scientific problem solving process. [15marks]
5. Using the theme animals, develop a one week schemes of work. [15marks]

