

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**IGEMBE CAMPUS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION**

**ECDE 238: SCIENCE AND ENVIRONMENTAL EDUCATION**

**STREAMS: SB/PT**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 30/03/2021**

**8.30 A.M – 10.30 A.M**

---

**INSTRUCTIONS:**

**Answer questions one and any other two questions**

**Do not write on the question paper**

1. (a) State the characteristics of indigenous knowledge. [6 marks]
- (b) Describe the four states of matter. [10 marks]
- (c) Explain function of plant parts in developing scientific skills in young children. [10 marks]
- (d) Distinguish between induction and deduction in the philosophy of science. [4 marks]
2. Discuss the ancient African's success in science and technology. [20 marks]
3. Describe the role of the following in the teaching and learning of science.
  - (i) John Dewey
  - (ii) Jean piaget
  - (iii) Jerome Bruner [20 marks]

4. Explain how drawing of parts of a plant help young children in developing scientific skills. [20 marks]

-----  
-