

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EMBU CAMPUS

**EXAMINATION FOR THE AWARD OF
CERTIFICATE IN EARLY CHILDHOOD EDUCATION**

ECDE 00139: SCIENCE AND ENVIRONMENTAL STUDIES

STREAMS: CERT (ECDE) YIS2 P/T

TIME: 2 HOURS

DAY/DATE: FRIDAY 09/08/2019

2.30 PM – 4.30 PM

INSTRUCTIONS:

- **Answer Questions One and any other Two Questions**
- **Do Not write on the question paper**

QUESTION ONE

(a) Identify the meaning of the following terms:

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|-------------------|-----------|
| (i) Technology | [2 marks] |
| (ii) Science | [2 marks] |
| (iii) Exploration | [2 marks] |

(b) Explain briefly the following methods of teaching science and environmental studies in ECDE.

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|---------------------|-----------|
| (i) Experimentation | [2 marks] |
| (ii) Discuss | [2 marks] |

(c) Marion a PP2 class teacher was teaching about bubbling in science. Highlight three activities and objectives she would have for the lesson. [6 marks]

(d) Discuss four basic scientific processes taught at the pre-school level. [12 marks]

(e) Apart from bubbling, sinking and floating state other two suggested activities for observation in science. [2 marks]

Question Two

- (a) Discuss five methods used to record information in science and environmental education. [15 marks]
- (b) Outline five uses of domestic animals a pre-school teacher would mention when teaching a science and environmental lesson. [5 marks]

Question Three

- (a) Highlight four importance of objectives in the teaching of a preschool science and environmental education. [4 marks]
- (b) Explain four types of question a teacher can ask when handling a science lesson. [12 marks]
- (c) State four objectives a pre-school teacher can set when teaching the relationship between weather and seasons. [4 marks]

Question Four

- (a) Discuss four methods used in assessing young children in a science setting. [12 marks]
- (b) Identify four objectives an ECDE teacher would set when teaching about external human body parts. [4 marks]
- (c) Explain how the following body parts should be cared for.
- (i) Arms and hands [2 marks]
- (ii) Mouth [2 marks]
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