



JARAMOGI ODINGA OGINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF EDUCATION, HUMANITIES AND SOCIAL SCIENCES

**UNIVERSITY EXAMINATION FOR THE DEGREE OF EARLY CHILDHOOD
DEVELOPMENT EDUCATION**

YEAR 3, SEMESTER 1, 2022/2023 ACADEMIC YEAR.

MAIN CAMPUS, REGULAR.

COURSE CODE: EEC 3311.

COURSE TITLE: SCIENCE ACTIVITIES

DATE : 14/12/2022

VENUE:LR 7

DATE: 14/12/2022

SESSION: 15.00-17.00PM

TIME: 2 HOURS

Instructions:

- 1. Answer question ONE (COMPULSORY) and ANY other TWO questions.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidate must hand in their answer booklets to the invigilator while in the examination room.**

QUESTION ONE:

- (a) State and provide justification for any **two** records an ECDE teacher should have in his or her class. **(4marks)**.
- (b) In an ECDE class - (PP1), a teacher and his learners were boiling water, state any **two** main topics in science that these children were developing the concept and skills to learn at secondary level. Explain your statement. **(6 marks)**.
- (c) Describe any **two** activities in science that can be used to introduce the concept of time in an ECD class. **(6marks)**.
- (d) Explain how Albert Banduras theory is a reflection of Qns– 1b and c above. **(5marks)**.
- (e) An ECD teacher planned to carry out row planting as a science activity with his class. State any four resources he should put in place before that lesson, explaining their purpose in that lesson. **(4marks)**.
- (f) Decantation is a topical activity at primary Grade 5. Describe how you can conduct this activity in an ECD class. **(5marks)**.

QUESTION TWO:

An ECDE teacher assigned learners to bring small sugar polythene papers to class. During the lesson they were tying the bags around the terminals of braches of trees, including five leaves.

- (a) What could be seen inside the bags after five days. **(3 marks)**.
- (b) State and explain the subject and topics which these children would learn and do at primary and secondary levels from this activity. **(6 marks)**.
- (c) State any three skills that the children acquired from that lesson. **(3 marks)**.
- (d) **“Sorting out”** is a skill in and also a method of teaching science.
- (i) Explain the procedure of conducting it in ECE class. **(4marks)**.
- (ii) State two topics in a subject at secondary level that such children can perform due to the skills acquired from that lesson. **(4marks)**.

QUESTION THREE:

“Gardening” is an activity that can be performed with an ECE class. You are an ECDE teacher in a big town like Kisumu.

- (a) Account for the type of gardening you can engage your learners in, specifically giving the type of crops involved.(10marks).
- (b) Cite the tools and material that can be used in such a lesson.(6 marks).
- (c) Explain the economic value of such a lesson toPP1 children living with their families in big towns like Kisumu in reflection to CBC today. (4 marks).

QUESTION FOUR:

(a) Describe how you can involve your ECD learners in the study of weather in the center as a science activity. (12 marks).

(b)Discuss the activities a teacher can use to introduce direction of places using the cardinal points of thecompass point. (8marks).

QUESTION FIVE:

(a) Explain why Lev Vygotsky’s theory social constructivism is well placed for an ECDE teacher to promote effective learning for conceptualization and skills acquisition. (14marks).

(b) Cite some three areas of criticism on Piagetian theory that make Vygotsky’s theory to be somehow superior to it. (6marks).