



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF EDUCATION**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION**  
**ECDE**  
**3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER 2016/2017 ACADEMIC YEAR**  
**MAIN CAMPUS REGULAR**

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**COURSE CODE: EEC-3311**

**COURSE TITLE: SCIENCE ACTIVITIES IN ECE**

**EXAM VENUE:**

**STREAM : ( BED ECDE)**

**DATE:**

**EXAM SESSION:**

**TIME: 2 HOURS**

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Instructions

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

### **Question One**

- a) Identify **five** strategies an ECE teacher can use to arouse children's curiosity during a science lesson. ( 5 marks)
- b) List Five methods of evaluating science in ECE ( 5 marks)
- c) Why is it important for an ECE teacher to use demonstration as a method of teaching science to young children ( 5 marks)
- d) Using the theme 'SOIL' identify five activities an ECE teacher will involve his/her ECE class in to enhance this concept. (5 marks)
- e) As an expert you have been invited to sensitize the parents and care-givers on the importance of science to young children. Suggest the areas you will dwell on. (10 marks)

### **Question Two**

- a) Experimentation is considered the most effective technique of teaching ECE science. Discuss. ( 10 marks)
- b) Citing relevant examples discuss the scientific process of solving problems. (10 marks)

### **Question Three**

Discuss the Nature of African Indigenous Science and its impact on early childhood

Education today (20 marks)

### **Question Four**

- a) Record keeping is an important aspect of ECE science. Explain this statement citing examples of records used in ECE science. (10 marks)

b) Give characteristics of an effective ECE science teacher.

( 10 marks)

### **Question Five**

Explain the contribution of the following Theorists towards the development of ECE

Science.

(20 marks)

-John Dewey

-Jean Piaget

-Jerome Brunner