



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF EDUCATION**

**EEC 3324: SCIENCE CURRICULUM, INSTRUCTION AND ASSESSMENT**

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**Y3 ECDE SEMESTER 2 EXAMS DECEMBER 2020**

**EXAM VENUE: LR1**

**STREAM: (Bed ECDE)**

**DATE: 08/12/2020**

**EXAM SESSION: 9.00-11.00AM**

**TIME: 2.00 HOURS**

**Instructions:**

- 1 Answer question 1 (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 1**

- a) How is science concepts acquired? (6 mks)
- b) State 3 Key criteria for guiding decisions about topic selection or content. (6 mks).
- c) How does the 5 E Instructional model promote Active, Collaborative, Inquiry based Learning? (5 mks)
- d) Describe 4 primary reasons for assessment of young children in early childhood and development education centers (8mks)
- e) How can teachers promote safety in the science classroom? (5mks)

### **QUESTION 2**

- a) Explain the nature of science (4 mks)
- b) Discuss the views, implications, strengths and weaknesses of the nature of science (16 mks)

### **QUESTION 3**

Discuss the instructional strategies that are used to teach science in early childhood and development education centers (20 mks).

### **QUESTION 4**

- a) What are the important considerations to be borne in mind when preparing a scheme of work? (10 mks)
- b) Describe the components of a scheme of work? (10 mks)

### **QUESTION 5**

- a) Discuss the main stages in lesson presentation. (10mks)
- b) Explain the skills children develop when learning science (10 mks)

**END.**