



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

**SCHOOL OF EDUCATION**

**UNIVERSITY EXAMINATION FOR THE DIPLOMA IN EDUCATION  
(SPECIAL NEEDS EDUCATION)**

**2nd YEAR 2nd SEMESTER 2018/2019 ACADEMIC YEAR**

**MAIN CAMPUS REGULAR**

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**COURSE CODE: ESN 2223**

**COURSE TITLE: SPECIFIC METHODS OF TEACHING SCIENCE**

**EXAM VENUE:**

**STREAM: (DIP SNE)**

**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 booklet to the invigilator while in the examination room**

**Q1**

**a.** Explain the following terms as used in teaching primary science

Illustration (2 marks)

Demonstration (2marks)

**b.** Explain two types of questions commonly asked in science giving one example of each

(2 marks)

**c.** Examine four strategies of involving every learner in questioning

(4 marks)

**d.** Outline *four* resources that can be used in teaching science

(4marks)

**d.** Explain *two* teaching and two learning activities that can be applied in a science class

(4marks)

**e.** Examine *two* major reasons for lesson planning in science

(4 marks)

**f.** State two ways of assessing learners in a science lesson

(2 marks)

**g.** Analyze *two* characteristics of a good test

(2 marks)

**h.** Outline eight materials you would need to carry out an experiment “Solubility of Substances” in science.

(4marks)

**Q2.** Analyse ten objectives of teaching primary science giving relevant content in each objective

(20 marks)

**Q3.** Draw a one week science scheme of work for standard six and from the scheme, extract one lesson plan

(20 marks)

**Q4.** Define an Individualized Education Programme (I.E.P.) and discuss its major components in relation to science teaching

(20 marks)

**Q5a** Examine six methods of teaching science

(12 marks)

**b** Outline four advantages of assignment learning approach in science

(4 marks)

**c.** Enumerate four related services that can be given to science learners in an Individualized Education Programme (I.E.P.)

(4 marks)

