



UNIVERSITY OF EDUCATION, WINNEBA
INSTITUTE FOR TEACHER EDUCATION AND CONTINUING
PROFESSIONAL DEVELOPMENT (ITECPD)
END-OF-FIRST-SEMESTER EXAMINATIONS. JUNE, 2023



LEVEL 200

COURSE CODE: EGC 237

COURSE TITLE: EARLY GRADE INTEGRATED SCIENCE I

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER:

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GENERAL INSTRUCTIONS:

- This paper is made up of ONE SECTION.
- The Section is made up of six essay type questions.
- Answer any FOUR questions in your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You are expected to hand over your answer booklet to the invigilator before you leave the examination hall.

Instruction: Answer any four (4) questions in the answer booklet provided.

Q1.

- (a) Explain why a mango tree is erect. 2 marks
- (b) Assuming you are asked to determine the mass of a stone using a top pan balance. Explain how you will increase the accuracy of the measurement. 4 marks
- (c) Mention the *two* (2) components of the biosphere and give *one* (1) example each. 4 marks
- (d) i. What is improvisation with respect to teaching and learning aids? 5 marks
- ii. Assuming you are a classroom teacher, state *five* (5) improvisations you will make during the teaching of a lesson on the topic "measurement" 10 marks

✓ Q2.

(a) Group the following under *basic* and *derived* quantities:

6 marks

Speed, Height, Temperature, Density,
 Volume, Time, Force, Length,
 Pressure, Viscosity, Mass, Electric current

(b) Identify *two* (2) factors responsible for the sun's strong gravity.

4 marks

(c) List and explain the *three* (3) domains of development and growth in children.

6 marks

(d) Outline a lesson you will use to teach your pupils the differences between plants and animals.

9 marks

✓ Q3.

(a) Assuming you are a classroom teacher and you employ inquiry-based learning in your lesson, state *two* (2) indicators that will suggest to you that you are applying it successfully.

4 marks

(b) Give *one* (1) effect of the following on the Earth:

3 marks

i. Rotation of the earth

ii. Tilting of the earth

iii. Revolution of the earth

(c) List *five* (5) positive attitudes expected of a good science teacher.

5 marks

(d) Copy and complete the table below:

8 marks

	Quantity	SI Unit	One other unit
i.	Metre
ii.	Volume
iii.	Hour
iv.	Kilogram

(e) Mention *five* (5) activities for teaching measurement.

5 marks

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Q4.

- (a) During a laboratory experiment, most of the students could not obtain the expected results. The facilitator said it was due to systematic errors. List **three (3)** sources of systematic errors and cite **one (1)** example each. **6 marks**
- (b) Many heavenly bodies have atmospheres around them but the moon does not. State **two (2)** effects of the absence of an atmosphere on the moon **4 marks**
- (c) Group the following under *arboreal*, *terrestrial* and *aquatic* animals: **4 marks**
- Dolphin, Parrot, Lizard, Monkey,
Tilapia, Lion, Turkey, Man
- (d) Using an activity, explain to your class one pupils that, although a piece of ice can grow into a massive-sized ice block, it is **not** a living thing. **7 marks**
- (e) Hlorlewu bought 5 kg 160 g of cotton to make a carpet of mass 6 kg. How much more grams of cotton does she need? **4 marks**

✓ Q5.

(3)

- (a) As a student teacher, state **three (3)** things you will do to address inclusivity issues in your class. **6 marks**
- (b) Mention **three (3)** usefulness of animals **3 marks**
- (c) Identify the terms being described in each statement: **4 marks**
- The space sugar molecules occupy
 - The quantity of sugar molecules present in a sugar cube
 - The period between two events
 - The interval between the corners of your room
- (d) Mention **four (4)** values expected of a good science teacher. **4 marks**
- (e) Identify **two (2)** incorrect ideas children have about the Sun and state the teaching method and teaching/learning materials you will use to help correct each misconception. **8 marks**

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