

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



EL 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

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J Q2.

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

6 marks

Speed,

Height,

Temperature,

Density,

Volume, Time,

fime, 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

- (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 6 marks systematic errors and cite one (1) example each.
- (b) Many heavenly bodies have atmospheres around them but the moon does not. State two 4 marks (2) effects of the absence of an atmosphere on the moon
- (c) Group the following under arboreal, terrestrial and aquatic animals:

4 marks

Dolphin,

Parrot.

Lizard, Monkey,

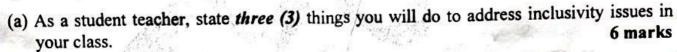
Tilapia,

Lion,

Turkey, Man

- (d) Using an activity, explain to your class one pupils that, although a piece of ice can grow 7 marks into a massive-sized ice block, it is not a living thing.
- (e) Hlorlewu bought 5 kg 160 g of cotton to make a carpet of mass 6 kg. How much more 4 marks grams of cotton does she need?

J 05.



(b) Mention three (3) usefulness of animals

3 marks

(c) Identify the terms being described in each statement:

4 marks

- i. The space sugar molecules occupy
- ii. The quantity of sugar molecules present in a sugar cube
- iii. The period between two events
- iv. 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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