



UNIVERSITY OF EDUCATION, WINNEBA
INSTITUTE FOR TEACHER EDUCATION AND CONTINUING
PROFESSIONAL DEVELOPMENT (ITECPD)



END OF FIRST SEMESTER EXAMINATIONS, APRIL, 2024

LEVEL 200

COURSE CODE: EGS 237

COURSE TITLE: INTRODUCTION TO EARLY GRADE 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 five essay type questions.*
- *Answer any **THREE** 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 three (3) questions in the answer booklet provided.

- 1 a. Ms. Bilson is planning to teach early-grade learners the concept of measurement. Briefly explain **five(5)** activities she can employ to teach the concept to the learners effectively. [10 marks]
b. Determine the volume of a sugar cube with one of its sides measuring 8cm. [5 marks]
c. Classify the following as **living things** and **non-living things**: mushroom, oil palm tree, paper, snail, dry wood logs, housefly, clay pot, crab, stone, bread mold. [5 marks]

- ✓ 2. a. Mr. Essel is generally praised by his colleagues as being a good science teacher in the early grade class. Briefly explain five qualities that Mr. Essel will likely

demonstrate as a good science teacher.

[10 marks]

- ✓ b. i. State four usefulness of plants to human beings [4 marks]
 - ✓ ii. Briefly explain three (3) teaching and learning materials/resources you can employ as early grade science teacher to teach the concept of living and non- living things effectively. [6 marks]
3. a. As an early grade science teacher, your students are curious to know how day and night occurs. How would you explain the concept of the formation of day and night to your students? [8 marks]
- b. State four effects of day and night on human activities [8 marks]
- c. State four ways in which animals are beneficial to human beings [4 marks]
4. a. Explain the concept of inclusivity in science education [3 marks]
- b. Briefly describe four ways a science teacher in an early grade classroom can promote inclusivity. [2 marks]
- c. Identify the type of quantities that are measured below;
- i. the period in which an athlete completed a 400m metre race
 - ii. the space sugar cubes occupy in a sugar box
 - iii. the quantity of gari in a sack
 - ✓ iv. the heaviness of a new-born baby
 - v. the distance travelled by a bus from Accra to Kumasi [5 marks]
5. a. In a lesson on diversity of living things and non-living things, Mrs. Asamoah told the learners in basic two that mushroom is a living thing. Explain five attributes of the mushroom that makes it a living thing. [15 marks]
- b. Explain the following terms;
- i. Revolution of the earth
 - ii. Rotation of the earth [5 marks]

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