



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



END OF SECOND SEMESTER EXAMINATIONS, OCTOBER, 2024

LEVEL: 200

COURSE CODE: PBI 241

COURSE TITLE: INTEGRATED SCIENCE II FOR UPPER PRIMARY

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 will need manuscript sheets for this paper.
- 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) i) What is a mixture? (5 marks)
 - ii) Explain to a primary 5 learner the importance of separating mixtures in everyday life. (5 marks)
 - b) Explain what luminous and non-luminous bodies are to primary 6 learners, with an example of each. (10marks)
2.
 - A. State the two (2) main types of mixtures. (2 marks)

- B. Explain Q2A. what they are to your colleagues, supporting your explanation with at least one example of each (8 marks)
- C. Design a 30-minute lesson on how you will teach an inclusive class how to separate a mixture of sulphur and iron filings. (10marks)

3. a) i) Explain the principle behind distillation to a chosen upper primary class (5 marks)
- ii) Design an activity to separate a sand and salt mixture. (5 marks)
- b). In your own words, explain the terms 'evaporation' and 'condensation'. (10 marks)

Q4.

A. Plan a 20-minute motivating and engaging lesson on friction and show how it affects motion to Primary 5 learners. (10 marks)

B. Someone lifts a book off the floor. Answer the questions that follow about the said activity.

(i) What *type* of energy is *primarily* involved when lifting the book from the floor? (2 marks)

(ii) How does the primary energy of the book change when it is lifted? (2 marks)

(iii) What energy would a person's body use to lift the book? (2 marks)

(iv) What happens to the kinetic energy of the book as it is lifted at a constant speed? (2 marks)

(v) If a book with a mass of 2kilogrammes is lifted 1.5 metres off the floor, what will be the change in energy. (Assume $g = 9.8$)

(2 marks)

5. A. Map the various descriptions to components in the solar system.

S/N	Description	Component
i	A small icy body that passes by the sun, heats up and releases gas to form a glowing coma or a tail	Milky way galaxy
ii	A planet known as the 'red' planet	Mars

iii	Small rocky objects that orbit the sun and mostly found between Mars and Jupiter	Jupiter
iv	Largest planet in the solar system	Asteroids
v	A galaxy that contains our solar system (This could be only one of three galaxies)	Comet
vi		Andromeda galaxy
vii		Spiral galaxy

(10 marks)

B.

- i. Why do we have a high incidence of skin diseases in the tropics than in the temperate zones?
- ii. Explain the nature of ringworms
- iii. How does ringworm spread?
- iv. Suggest a treatment for ringworm.

(10 marks)

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