



**UNIVERSITY OF EDUCATION, WINNEBA
INSTITUTE FOR TEACHER EDUCATION AND CONTINUING
PROFESSIONAL DEVELOPMENT (ITECPD)
END-OF-SECOND-SEMESTER EXAMINATION SEPTEMBER 2022**



COURSE CODE: EGS 123

COURSE TITLE: INTRODUCTION TO INTEGRATED SCIENCE II FOR EARLY GRADE

TIME ALLOWED: 50 MINUTES

STUDENT'S INDEX NUMBER:

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- This paper is made up of ONE SECTION.
- Section B is made up of four essay type questions.
- Answer TWO questions. Write your responses in the answer booklet provided.
- All questions carry equal marks. You are expected to start your response to a question on a fresh page.
- You are expected to handover your answer booklet to the invigilator before you leave the examination hall.

SECTION B

1. a. What is mechanical energy? *is a type of energy that is combination of potential and kinetic energy* **2 marks**
- b. A bird of mass 3.50kg at a height 20m flies with a velocity of 6.75 ms⁻¹. Calculate the kinetic energy of the bird. (Acceleration due to gravity = 10ms⁻²) **4 marks**
- c. State four (4) ways by which the environment can be conserved. **4 marks**
2. a. What is first aid? *an immediate treatment which is given to an injured person before taken to the hospital.* **2 marks**
- b. State one function each of the following terms as applied in Basic electronics:

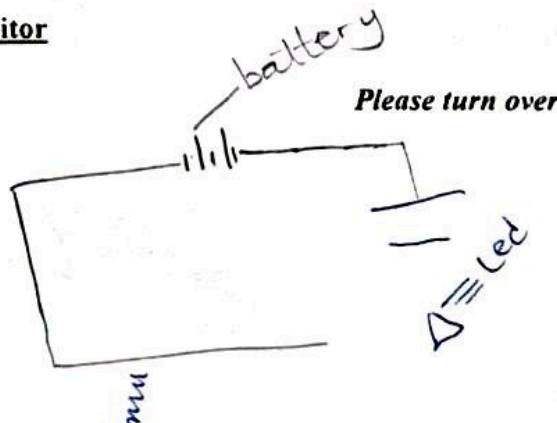
- i. Inductor
- ii. Capacitor
- iii. Diode

stores and releases electricity into the electrical circuit.

- c. Draw a simple **electronic circuit** to indicate the following: **resistor, LED, battery** and **capacitor** **5 marks**

*E = 1/2 mv^2
1/2 x 3.50kg x 6.75^2
= 81.25
79.734315*

1 | Page



Please turn over

*- educating the public
- planting new trees
- avoid using def in fishing
45.5625*

3. a. Differentiate between *health* and *disease*.

2 marks

b. The table below shows diseases, copy and complete the table by providing **one causative organism** and **one method of prevention** for each of the diseases.

Disease	Causative organism	Method of Prevention
Malaria		
Tuberculosis		

4 marks

c. State four (4) importance of *industrialization* to the economy of Ghana.

4marks

4. a. Give one function each of the following items in the First Aid Kit.

i. Tweezers

ii. Alcohol-free wipes

- use to wipe or clean the surface of the injury

2 marks

b. Identify *sequentially* the *four (4)* main headings in scientific report writing.

• Identification of the problem

4 marks

c. State *two (2)* contributions each of science and technology in the following sectors;

i. Health

family planning

ii. Transport

*Has made transport easier and faster
Prevents accidents from happening.*

4 marks

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