



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



END-OF-SECOND-SEMESTER EXAMINATIONS. JAN., 2023

LEVEL 300

COURSE CODE: PBI 361

COURSE TITLE: PREPARING TO TEACH UPPER PRIMARY SCIENCE

TIME ALLOWED: 50 MINUTES

STUDENT'S INDEX NUMBER:

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GENERAL INSTRUCTIONS:

- This paper is made up of ONE SECTION.
- Section B is made up of four essay type questions.
- Answer TWO questions into your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You are expected to handover your answer booklet to the invigilator before you leave the examination hall.

SECTION B

- a. Co-planning of lessons is bound to have some challenges. From your reflection of the STS programme, outline two challenges associated with co-planning of a lesson. (2mks)
 - b) Describe an activity you will use to teach basic four learners how to determine the poles of a bar magnet. ✓
(4mks)
 - c) i. Explain the term heat. (1mk)
ii. Identify three effects of heat on matter. (3mks)
- a) In a sequential order, list all the stages of the life cycle of a mosquito. (2mks)
 - b) Indicate the SI units of the following in electronics.
 - i. current - Amperes
 - ii. potential difference - Volts
 - iii. electrical charges

iv. resistance

(4mks)

c) The new curriculum by NaCCA expects teachers to instil certain core competencies or soft skills in the learners as means of ensuring holistic basic education. As a science student-teacher, identify four core competencies enshrined in the new curriculum.

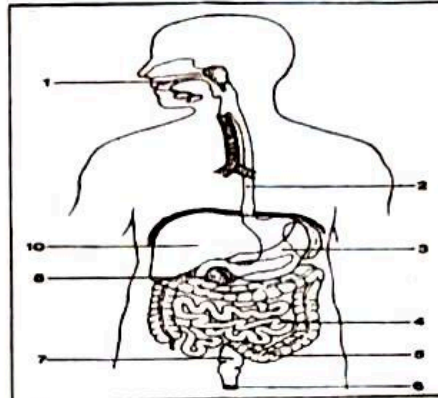
(4mks)

3. a) State two functions of the human respiratory system.

(2mks)

b) Study the diagram below and name six of the parts labelled 2, 3, 5, 6, 7, and 10.

(3mks)



c) Draw a closed circuit showing the four main components.

(5mks)

4. a) Copy and complete the table below on respiratory organs and their functions. (4mks)

Organ	Function
Nose	
Larynx	
Lungs	
Trachea	

b) State a function each of the following components of an electrical circuit:

i) Dry cell

ii) Wire

iii) Load

iv) Switch

(4mks)

c) Mention four sources of heat energy used in everyday life.

(2mks)