



UNIVERSITY OF GHANA

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DEPARTMENT OF TEACHER EDUCATION
SCHOOL OF EDUCATION AND LEADERSHIP
COLLEGES OF EDUCATION

END OF SEMESTER TWO EXAMINATIONS FOR LEVEL 200, 2022/2023
B.ED. PROGRAMME

COURSE CODE: TEEG 211

COURSE TITLE: INTRODUCTION TO EARLY GRADE SCIENCE I

Instruction: Answer all questions in Section A and any three questions in Section B.

Time: 2 hours

SECTION A

[25 MARKS]

Answer **all** questions in this section. This section has twenty five (25) multiple choice test items. Choose the most appropriate responses for Questions 1-20 that have options A-D. Also provide short answers for Questions 20-25.

1. The locomotory organs used by mammals to move from one place to another are ...
 - A. hands
 - B. legs
 - C. limbs
 - D. Skin

2. The organisms which possess life and can perform life processes are known as
 - A. animals
 - B. human beings
 - C. living things
 - D. non-living things

3. The ability of organisms to feed, grow, respire, reproduce, excrete, and respond to stimuli is termed as
- A. life performance
 - B. life possession
 - C. life processes
 - D. life properties
4. The energy used for the metabolic processes by organisms is generated through ...
- A. Excretion
 - B. nutrition
 - C. respiration
 - D. Reproduction
5. The organisms that do not perform life processes are called
- A. living organisms
 - B. living things
 - C. nonliving organisms
 - D. non-living things
6. The ability of living things to move from place to place is termed as
- A. Locomotion
 - B. Movement
 - C. Mobile
 - D. Walking
7. A woody perennial plant with a single stem that grows and bears lateral branches at some distance from the ground is a
- A. climbing plant
 - B. creeping plant
 - C. shrub
 - D. Tree
8. A smaller woody erect plant that has several main stems arising at or near the ground is a
- A. climbing plant
 - B. creeping plant
 - C. shrub
 - D. Tree
9. A plant with a weak stem that spreads horizontally rather than vertically is a
- A. climbing plant
 - B. creeping plant
 - C. shrub
 - D. Tree

10. A plant with a weak stem that needs support from other tall objects is
a.
A. climbing plant
B. creeping plant
C. shrub
D. Tree
11. The S.I. unit of force is
A. kgms^{-2}
B. $\text{kgm}^2\text{s}^{-2}$
C. kgms^{-1}
D. kgms^1
12. The Earth rotates on an imaginary line called an
A. axils
B. axis
C. azils
D. Azyls
13. Yaw Mensah's activities appear to be purely reflexive. At which stage of Piaget's Stages of Cognitive Development is Yaw Mensah?
A. Concrete Operational stage
B. Formal Operational stage
C. Pre-Operational stage
D. Sensori-Motor stage
14. The following are essential attitudes and values of a professional science teacher except
a. Accuracy
b. Awareness
c. Carefulness
d. Honesty
15. The instrument used to measure the quantity of mass is called
a. Measuring Cylinder
b. Screw gauge
c. Volt meter
d. Top pan balance
16. How many minutes make 342 seconds?
a. 5.1 minutes
b. 5.5 minutes
c. 5.6 minutes
d. 5.7 minutes
17. Where does the sun rise from?
a. East
b. North
c. South
d. West

18. How many days make one fortnights?
 a. 9 days
 b. 14 days
 c. 21 days
 d. 28 days
19. The S.I unit of work is
 a. joule
 b. newton
 c. pascal
 d. Watts
20. A green flat, thin, expanded lateral appendage of a stem is called
 a/an
21. An erect ascending part of the plant body that develops from the plumule,
 bears leave and flowers, grows utilizing a terminal bud and shows a distinction
 of nodes and inter-modes is the
22. The hibiscus, sunflower, and pineapple are examples of
23. Animals that are kept basically for companionship are termed
24. The S.I unit for luminous intensity is
25. Measurement improves the effectiveness and
 of science and the trust in its outcomes.

SECTION B

{75 marks}

This Section has Five (5) questions. Answers any three (3) questions in this section

1. a. Explain the following terms concerning living things [10 marks]
 - i. Nutrition
 - ii. reproduction
 - iii. respiration
 - iv. excretion
 - v. Irritability
- b. Tabulate five (5) differences between living and non-living things. [10 marks]
- c. What is a vector quantity? Give three examples [5 marks]
2. a. State and explain five uses of animals to humans [10 marks]
- b. Explain how you teach basic one pupil to determine the volume of an irregular object. [10 marks]

- c. show how will you distinguish the following terms below to a basic two child;
- i. Trees and shrubs [2 marks]
 - ii. Climbing and creeping plant [2 marks]
 - d. Give two examples of a scalar quantity [1 mark]
3. a. State four (4) functions of the root of a plant [8 marks]
- b. Describe four (4) usefulness of plants to humans [8 marks]
- c. state four (4) uses of a leaf to humans [8 marks]
- d. State five uses of measurement [1 mark]
4. a. How would you explain the following terminologies to a basic three (3) child with examples each
- i. Carnivores
 - ii. Herbivores
 - iii. Omnivores [6 marks]
- b. State four (4) sources of water. [4 marks]
- c. Demonstrate how you will teach basic three learners living and non-living things [8 marks]

(b) List seven fundamental quantities with their units of measurement [7 marks]

Fundamental	Units of measurement

5a. Distinguish between the following:

- i. Rotation and Revolution of the earth [4 marks]
- ii. Derived units and Fundamental units [4 marks]
- b. Describe the hydrological cycle. [4 marks]
- c. i. Distinguish between the scheme of work and lesson plan [4 marks]
- ii. State two (2) usefulness of each of the scheme of work and lesson plan [4 marks]
- d. Discuss two challenges that hinder the implementation of inclusive education [5 marks]
- e. State five uses each of animals and plants [4 marks]