

STUDENT'S ID NO: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_



UNIVERSITY OF GHANA

(All rights reserved)

DEPARTMENT OF TEACHER EDUCATION

SCHOOL OF EDUCATION AND LEADERSHIP

COLLEGES OF EDUCATION

END OF SEMESTER ONE EXAMINATIONS FOR LEVEL 200, 2021/2022

B.ED. PROGRAMME

COURSE CODE: TEE 211

COURSE TITLE: Introduction to Early Grade Science 1

---

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

Time: 2 hours

SECTION A

[25 Marks]

Answer all the questions in this section.

1. The life cycle of living things can be summarized as follows –
  - A. birth, growth, reproduction and death
  - B. copulation, fertilization, gestation and birth
  - C. egg, larva, pupa and imago
  - D. metabolism, energy, reproduction and growth

STUDENT'S ID NO: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

2. Criteria for differentiating living things from non-living things are the following EXCEPT .....
  - A. ability to adapt to their environment.
  - B. ability to grow and develop.
  - C. they expire.
  - D. they are made of one or more cells.
  
3. It is the universal system of measurement, standardized and used by scientists worldwide.
  - A. Customary System Units
  - B. Imperial System Units
  - C. Metric System Units
  - D. S.I. Units
  
4. A quantity that can be measured by either an instrument or calculation is .....
  - A. fundamental
  - B. physical
  - C. scalar
  - D. vector
  
5. Which one of the following is NOT a type of plant?
  - A. Climbing plant
  - B. Creeping plant
  - C. Fibrous root
  - D. Shrub
  
6. Measurement plays an important role in all the following EXCEPT .....
  - A. discovery of laws
  - B. preparation of Bills
  - C. research work
  - D. none of the above

STUDENT'S ID NO: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

7. When a standard is set for a quantity, then the standard quantity becomes
  - a. Amount
  - b. Rate
  - c. Prefix
  - d. Unit
8. To measure the volume of a liquid, powdered substance or irregular shaped insoluble solid we can use
  - a. Measuring cylinder
  - b. Physical balance
  - c. Screw gauge
  - d. Vernier calipers
9. The quantities that are expressed in terms of base quantities are known as
  - a. Quartile quantities
  - b. Prefixes
  - c. Base quantities
  - d. Derived quantities
10. Which unit would you use to measure the length of a football field?
  - a. Centimeters
  - b. Inches
  - c. Kilometers
  - d. Meters
11. Which of the following is a fundamental physical quantity?
  - a. Speed
  - b. time
  - c. volume
  - d. area
12. Vegetables and groceries are measured in .....,
  - a. Newton
  - b. Kilogram
  - c. Minute
  - d. Newton
13. What is Earth's rotation?
  - a. When earth spins around on its axis for twenty-four hours
  - b. When earth spins around on its axis for thirty-six hours
  - c. When earth revolves around the sun for 365 days
  - d. When earth revolves around the sun
14. Living things are capable of producing a new life which is of their own kind through the process of
  - a. Respiration
  - b. Restoration
  - c. Reproduction

STUDENT'S ID NO: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

- d. Birth
15. Living things exist and are alive and are made of microscopic structures called
- Organelles
  - Tissues
  - Systems
  - Cells
16. Animals are able to move as they possess specialized
- locomotory organs
  - circular muscles
  - legs
  - sense organs
17. Some living organisms can harness the sun's energy to make their food. These organisms are known as
- Chemotrophs
  - Biotrophs
  - Autotrophs
  - Heterotrophs
18. Which of this is common to both plants and animals' cells?
- Cell wall
  - Vacuole
  - Chloroplast
  - DNA
19. They use a combination of hormones and sensory ions to take in information. What are they?
- Carnivores
  - Plants
  - Animals
  - Living things
20. When a hemisphere is tilted away from the Sun, it receives less heat energy. This means it is in
- Summer
  - Winter
  - Spring
  - Fall
21. The S.I. unit for absolute temperature is .....
22. Properties of matter that scientists measure are known as ..... quantities.
23. The act of assigning numbers or some symbols to the characteristics of objects is .....

STUDENT'S ID NO: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

24. The equator is an important imaginary line circle that divides the earth into two equal halves known as the northern and southern .....

25. If day and night are as a result of the rotation of the earth, seasons are also as result of ..... of the earth.

## SECTION B

[75 Marks]

Answer any **three** questions in this section.

1. a. Differentiate between living and non – living things. **6marks**
- b. State any three (3) criteria for differentiating between living and non – living things. **6marks**
- c. Briefly describe the formation of day and night of the earth. **9 marks**
- d. State any two (2) importance of S.I. unit. **4mark**
2. a. State any two (3) different uses each for plants and animals. **12marks**
- b. Mention any four (4) quantities and their units each for scalar and vector quantities. **8marks**
- c. State any two (2) of the four (4) primary psychosocial tasks a child must accomplish in learning. **5marks**

- 3 a). List five fundamental quantities with their units of measurement.

Fundamental quantities	Units of measurement

Quantity and its unit=  $2 \times 5 = 10$  marks

- b). Explain the term exclusion in an inclusive education. **7½ marks**
- c). what does the term special education refer to? **7½ marks**
4. a). what is a disability? **10 marks**
- b). Discuss five challenges that hinders to implement inclusive education. **10 marks.**
- c). Indicate any five characteristics of non-living things. **5marks**
5. a). Differentiate between rotation and revolution of the Earth. **10 marks.**
- b). List any five instruments and the physical quantities they can be used to measure. **10 marks**

Instrument	Physical quantity

STUDENT'S ID NO: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_


**10 marks**

c). what is a special need education?

**5 marks.**