

STUDENT'S ID NO: _____ SIGNATURE: _____



UNIVERSITY OF GHANA

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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: TE ~~20~~ 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 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

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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

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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

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- d. Birth
- 15. Living things exist and are alive and are made of microscopic structures called
 - a. Organelles
 - b. Tissues
 - c. Systems
 - d. Cells
- 16. Animals are able to move as they possess specialized
 - a. locomotory organs
 - b. circular muscles
 - c. legs
 - d. sense organs
- 17. Some living organisms can harness the sun's energy to make their food. These organisms are known as
 - a. Chemotrophs
 - b. Biotrophs
 - c. Autotrophs
 - d. Heterotrophs
- 18. Which of this is common to both plants and animals' cells?
 - a. Cell wall
 - b. Vacuole
 - c. Chloroplast
 - d. DNA
- 19. They use a combination of hormones and sensory ions to take in information. What are they?
 - a. Carnivores
 - b. Plants
 - c. Animals
 - d. Living things
- 20. When a hemisphere is tilted away from the Sun, it receives less heat energy. This means it is in
 - a. Summer
 - b. Winter
 - c. Spring
 - d. 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

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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.

Instrument	Physical quantity

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10 marks

c). what is a special need education?

5 marks.