



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: TEUP 207

COURSE TITLE: INTEGRATED SCIENCE I FOR UPPER PRIMARY

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 1-21 that have options A-D. Also provide short answers for Questions 22-25.

1. The plant's growth and its development or changes in the plant's height, shape and the kind of growth it undergoes is known as.....
 - A. habit growth
 - B. growth habit
 - C. growth pattern
 - D. growth size
2. A short-sized plant with soft, green, delicate stem without woody tissues is referred to as.....
 - A. herbs
 - B. moss
 - C. shrubs
 - D. trees

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3. Ephemeral plants grow for
- A. few weeks.
 - B. longer time
 - C. one season
 - D. two years
4. The specialised sensitive climbing organ, capable of growing spirally to encircle a support is termed as
- A. creeper
 - B. Shrub
 - C. tendril
 - D. trailer
5. The root system that grows from any part of the plant with exception of radical is the
- A. adventitious root system
 - B. branched root system
 - C. fibrous root system
 - D. tap root system
6. The region where the leaves arise on the stem is known as
- A. axil
 - B. internode
 - C. node
 - D. plumule
7. Domesticated animals live in barns and houses whereas wasps and yellow jackets live in
- A. caves
 - B. holes
 - C. hives
 - D. Webs
8. A substance which is generally insoluble in water and organic solvents but reacts with dilute acids to give salts and hydrogen gas is a/an.....
- A. base
 - B. ion
 - C. metal
 - D. non - metal
9. A substance used in water treatments, preparation of bleaching agent and in making polyvinyl chloride is
- A. chlorine
 - B. chloride
 - C. metalloid
 - D. sodium chloride

10. The chemical process which takes place on the surface of a metal whereby oxygen/air attacks the metal in the presence of water to form a metallic oxide is termed as
- A. burning
 - B. corrosion
 - C. oxidation
 - D. rusting
11. Which of the following gases is needed by plants to manufacture their food?
- A. Carbon (IV) oxide
 - B. Nitrogen
 - C. Oxygen
 - D. Chlorine
12. The process whereby iron is coated with a layer of zinc to prevent rusting is called ...
- A. alloying
 - B. cathode protection
 - C. electroplating
 - D. Galvanizing
13. The name of an area reserved for wildlife where they can freely use the habitat and natural resources is.....
- A. Beach
 - B. Home
 - C. National park
 - D. Sanctuary
14. "Mango" and "Neem" plants are examples of
- A. herbs
 - B. mosses
 - C. Shrubs
 - D. trees
15. Uses of zinc include the following EXCEPT
- A. Used as a thermometric substance
 - B. Used in extraction of gold
 - C. Used in making roofing sheets
 - D. Used to coat iron
16. Which of the following affects metallic bond strength?
- A. Number of protons in the nucleus
 - B. Number of neutrons in the nucleus
 - C. Number of electrons in the last shell
 - D. Number of electrons and neutrons
17. Which of the following does not cause greenhouse effects?
- A. Afforestation
 - B. Burning of fossil fuel
 - C. Farming practice
 - D. Industrial waste

18. The transitional stage of physical and psychological development that generally occurs between puberty and adulthood is.....
- adolescent
 - adolescence
 - childhood
 - puberty
19. The following are characteristics of adolescent intellectual development EXCEPT ...
- An intense curiosity and wide range of intellectual pursuit.
 - Interest in interacting with peers during learning activities.
 - Modelling behaviour
 - Moving from concrete to abstract thinking.
20. The prostrate plant which has weak, long and slender stems that crawl along the surface and do not try to climb up any support is known as
- Creeper
 - Shrub
 - tendrils
 - Trailer
21. Which of the following learner characteristics will influence his/her perspective in a course of study?
- Learner's commitment
 - Parents interest in the learner
 - Prior knowledge of the learner
 - Skill of the learner in the concerned area
 - Family size of the learner
 - Socio-economic background of the family to which the learner belongs
- (i) (iii) and (iv)
 - (i), (ii) and (iii)
 - (iii), (iv) and (v)
 - (iv), (v) and (vi)
22. Which of the following learner characteristics are likely to influence the effectiveness of teaching aids and evaluation systems to ensure positive results?
- Learner's family background, age and habitation.
 - Learner's parentage, socio-economic background and performance in learning of the concerned subject
 - Learner's stage of development, social background and personal interests.
 - Learner's maturity level, academic performance level and motivational dispositions.
23. The convection current tends to move fluid particles from one place to another creating differences occurring within the densities andof a specific fluid.
24. What is usually used to measure the thickness of a finger nail?
25. Weight is measured in

SECTION B – 75 marks

Answer any 3 questions from this section. All questions carry equal marks.

1. a. How will you distinguish adventitious root system from fibrous root system to a primary five pupil? [4 marks]
b. State and explain two (2) differences between mass and weight [4 marks]
c. State two alloys and state their composition. [4 marks]
d. State two chemical properties of non-metals. [2 marks]
e. Differentiate between heat and temperature. [2 marks]
f. Briefly explain the following terms;
i. Land breeze
ii. Convection current
iii. Ventilation [6 marks]
g. State and explain any two (2) benefits of an inclusive classroom [3 marks]
2. a. How will you distinguish annual from biennial plants to a primary six pupil? [4 marks]
b. State four (4) benefits you can derive from plants and their products [4marks]
c. State three reasons why Aluminium is preferred for making roofing sheets to any other metal [6 marks]
d. State and explain any two (2) applications of convection current [4 marks]
e. i. With practical example explain differentiated instruction [3 marks]
ii. What is negative geotropism? [2 marks]
iii. Select metals from the list of symbols below
Ca, P, I, Cs, S [2 marks]
3. a. Distinguish between walking animals from swimming animals using two (2) features to a primary four pupil [4 marks]
b. Mention any four (4) benefits you can derive from animals and their products. [4 marks]
c. Differentiate between rusting and corrosion. [4 marks]
d. State and explain any two (2) effects of poor ventilation. [4 marks]
e. i. with practical example explain the adolescent stage [3 marks]
ii. Explain why most metals have high melting and boiling points. [4 marks]
iii. Explain why aluminium is resistant to corrosion. [2 marks]
4. a. Outline two (2) differences between climbers and creepers. [4 marks]
b. Enumerate any four (4) ways by which pets can be taken care for. [4 marks]
c. State and explain two (2) ways by which one can prevent a coal pot from rusting. [4 marks]
d. i Mention any five (5) learner characteristics. [5 marks]
ii. What are the upper and lower fixed points values for the following scales?
i) Celsius scale. ii) Fahrenheit scale. iii) Kelvin scale