

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: TEUP 207

COURSE TITLE: INTEGRATED SCIENCE FOR UPPER PRIMSRY 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. A substance which is generally insoluble in water and organic solvents but react with dilute acids to give salts and hydrogen gas is a/an.....
A. acid
B. base
C. ion
D. metal

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2. A plant with a weak and slender stem that crawl along the surface is known as
 - A. creeper
 - B. Shrub
 - C. Tendril
 - D. Trailer
3. Convection is the dominant heat transfer in.....
 - A. Liquids and gases
 - B. Liquids and solids
 - C. Gases and solids
 - D. All of the above
4. When a cold air mass and a warm air mass converge at a point. What happens?
 - A. Convectional heat transfer will occur
 - B. The cold air mass would sink and the warm air mass would rise over it.
 - C. The warm air mass would sink and the cold air mass would rise over it.
 - D. They will mix up to form rain.
5. In an experiment, the science teacher heated water gently in a transparent beaker and carefully lowered potassium permanganate (colour) to the bottom with the help of a drinking straw. What concept is the science teacher demonstrating to the pupils?
 - A. Conduction of heat
 - B. Convectional heat transfer
 - C. Radiation of heat
 - D. All of the above
6. Which of the following prevents stainless steel from rusting?
 - A. Carbon
 - B. Chromium
 - C. Copper
 - D. Iron
7. All of the following are metals except
 - A. Aluminium
 - B. Chlorine
 - C. Mercury
 - D. Zinc

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8. Which property of metals makes them suitable for use in the construction of bridges?
 - A. Being lustrous
 - B. Being sonorous
 - C. Having a high tensile strength
 - D. Having a high melting point

9. Which of the following is sonorous?
 - A. Neon
 - B. Iodine
 - C. Copper
 - D. Argon

10. A solution of two metals is termed....
 - A. Air
 - B. Alloy
 - C. Mixture
 - D. Paramagnetism

11. usually reacts with oxygen to form basic oxides.
 - A. Metals
 - B. Metalloids
 - C. Non-metals
 - D. Semi-metals

12. The following are ways through which pets can be taken care of pet except?
 - A. Love
 - B. Regular grooming
 - C. Veterinary care
 - D. Starving

13. An oxidation process whereby iron reacts with oxygen in the presence of water to form hydrated Iron (III) oxide is termed as
 - A. burning
 - B. corrosion
 - C. oxidation
 - D. rusting

14. Rusting can be prevented by the following methods except?
 - A. Galvanizing
 - B. ionisation

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- C. oiling
 - D. painting
15. Plants that require two years to complete their life cycle are referred to as.....
- A. Annuals
 - B. Biannual
 - C. Perennials
 - D. Ephemerals
16. Plants that last for one season are referred to as.....
- A. Annuals
 - B. Biannual
 - C. Perennials
 - D. Ephemerals
17. Plants that live only for a few weeks are known as.....
- A. Annuals
 - B. Biannual
 - C. Perennials
 - D. Ephemerals
18. The animals that are kept by humans for companionship are usually termed as.....
- A. Companions.
 - B. Pesticide
 - C. Pests
 - D. pets
19. The following are movement exhibited by animals except.....
- A. Crawling
 - B. Hoping
 - C. Jumping
 - D. Walking
20. Which of the following is not the basis for grouping animals?
- A. Body covering
 - B. Companionship
 - C. Living space
 - D. Movement

21. This system is an extensive mass of smaller, widely-spread roots;
- A. Taproot
 - B. Fibrous root
 - C. Adventitious root
 - D. Lateral root
22. The leather obtained from animal hide is used to produce the following EXCEPT.....
- A. Bag
 - B. Belt
 - C. Furniture
 - D. Shoe rag
23. Which of the following is not part of a leaf
- A. Lamina
 - B. Leaf base
 - C. Petiole
 - D. Lobe
24. Non-metals undergo reactions by either gaining or sharing electrons to achieve a stable electronic configuration.
- A. False
 - B. True
 - C. All the above
 - D. None of the above
25. The specialised sensitive climbing organ, capable of growing spirally to encircle a support is termed as
- A. Creeper
 - B. Shrub
 - C. Tendril
 - D. Trailer

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SECTION B

[75 Marks]

Answer any three questions in this section.

1. a). Outline three (3) uses of roots to man. (6marks)
b). What three (3) ways is mass different from weight? (9 marks)
c). How useful are animals and animals' products to you? Outline five (5) usefulness.
(10 marks)
2. a). Explain each of the following root systems in plants with two examples each of plants having them.
 - i. Tap root system. (4 marks)
 - ii. Fibrous root system. (4 marks)
b). Describe three characteristic features each of leaves and stems of plants. (6 Marks)
c). i. State four (4) effects of poor ventilation. (8 Marks)
ii. State any three animals that possess shells. (3 Marks)
3. a). State and explain three (3) ways by which pets can be cared for. (9 marks)
b). Mention two alloys and state their composition. (6 marks)
c). State and explain five (5) causes of poor ventilation in your room. (10 marks)
4. a) Group the following plants under erect, creeping and climbing plants
Pea plant, sweet gourd, roses, watermelon, teak, wheat, Irish moss, sweet potato, honey suckle and morning glory. (10 marks)
b) i) state any five ways of preventing rusting. (5marks)
ii) List any two measuring units of temperature. (4 marks)
c) Explain the following terms
i) Ephemeral plants (3marks)
ii) Annual plants (3marks)
5. a). Describe any two (2) techniques you would adopt to prevent your metal gate from rusting. (10marks)
b) Briefly explain why aluminium metal is used for making roofing sheets. (5 marks)
c) Use five (5) physical properties to justify the difference between metals and non-metals. (10 marks)