

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 YEAR TWO SEMESTER TWO EXAMINATIONS, 2020/2021

B.ED. PROGRAMME

COURSE CODE: TEUP 208

COURSE TITLE: Integrated Science II for Upper Primary

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

Time: 2 hours

SECTION A

[25 Marks]

Answer all the questions in this section.

1. Frictional forces tend to dissipate of a moving object.
 - A. electrical energy
 - B. gravitational energy
 - C. kinetic energy
 - D. potential energy
2. What energy transformation takes place when a carpenter hits a nail on a roof?
 - A. Chemical energy → Potential energy → Kinetic energy → Sound energy + Heat
 - B. Gravitational energy → Potential energy → Chemical energy → Sound energy + Heat
 - C. Kinetic energy → Gravitational energy → Potential energy → Sound energy + heat
 - D. Potential energy → Kinetic energy → Chemical energy → Sound energy + Heat

3. The following are alloys EXCEPT

 - A. Brass
 - B. Bronze
 - C. Iron
 - D. Steel

4. The energy possessed by a body by virtue of its position in a field is.....
 - A. Chemical energy
 - B. Kinetic energy
 - C. Magnetic energy
 - D. Potential energy
5. Which of the following is NOT a renewable source of energy?
 - A. Nuclear
 - B. Solar
 - C. Water
 - D. Wind
6. Which of the following is a contact force?
 - A. Electromagnetic force
 - B. Electrostatic force
 - C. Frictional force
 - D. Magnetic force
7. The following are layers of the skin EXCEPT.....
 - A. Dermatitis
 - B. Dermis
 - C. Epidermis
 - D. Hypodermis
8. The following are non-renewable sources of energy EXCEPT.....
 - A. Biomass
 - B. Dry cells
 - C. Fossil fuel
 - D. Nuclear energy

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9. Which of the following is NOT associated with frictional force?
- A. Dynamic
 - B. Electrostatic
 - C. Limiting
 - D. Static
10. Mechanical energy is made up of.....
- A. Electrical energy and Chemical energy
 - B. Kinetic energy and Electrical energy
 - C. Potential energy and Chemical energy
 - D. Potential energy and Kinetic energy
11. The force of attraction between molecules of the same substance is.....
- A. Adhesion force
 - B. Cohesion force
 - C. Electromagnetic force
 - D. Electrostatic force
12. Melanocytes are responsible for the production of.....
- A. Epidermis
 - B. Hypodermis
 - C. Melanin
 - D. Pigment
13. Ringworm is a common skin infection caused by.....
- A. Bacteria
 - B. Fungus
 - C. Protozoa
 - D. Virus
14. Measles is an infection caused by.....
- A. Bacteria
 - B. Fungus
 - C. Protozoa
 - D. Virus

15. Which of the following diseases are caused by virus?

- A. Chicken pox and Eczema
- B. Chicken pox and Ring worm
- C. Measles and Chicken pox
- D. Measles and Eczema

16. Which of the following is NOT a planet?

- A. Neptune
- B. Pluto
- C. Saturn
- D. Uranus

17. The largest planet is.....

- A. Earth
- B. Jupiter
- C. Mars
- D. Pluto

18. Which of the following planet supports plant and animal life?

- A. Earth
- B. Jupiter
- C. Mars
- D. Pluto

19. Which of the following devices changes sound energy to electrical energy?

- A. Loudspeaker
- B. Microphone
- C. Refrigerator
- D. Television

20. Which of the following is used for converting energy from one form to another?

- A. Converter
- B. Exchanger
- C. Transducer
- D. Transformer

21. What is CPR?

- A. Cardiac Pathway Respiration

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- B. Cardiopulmonary Resuscitation
C. Cardiovascular Pulmonary Respiration
D. Chest Pressure Readjustment
22. Disease causing organisms are called.....
A. Insects
B. Pathogens
C. Vectors
D. Worms
23. Ozone depletion in the stratosphere causes.....
A. forest fires
B. skin cancer
C. acid rain
D. none of the above
24. Sustainable development involves.....
A. Better transportation through the building of more roads
B. Larger buildings using stronger design and materials
C. Reducing consumption, increasing efficiency and using renewable energies
D. Using resources at maximum rates
25. A statement of one's beliefs, values and practices about teaching and learning and how they are implemented is referred to as.....
A. Teaching philosophy
B. Teaching perception
C. Teaching ideology
D. Reflective ideology

SECTION B

[75 Marks]

Answer three questions from this section.

1. a) i. What is a mixture?
ii. State four methods of separation of mixtures.
- b) i. Differentiate between Luminous and non- Luminous objects.

- ii. State two examples of luminous objects
- c) What is a Milky Way galaxy?
2. (a) Explain why water wet glass but mercury does not
- (b) i. What is a satellite?
 - ii. State four uses of artificial satellite
 - c) Distinguish between natural and artificial satellites.
3. a) The new curriculum has at its heart the acquisition of skills in the **4Rs**. What does the 4Rs stand for?
- b) Outline four (4) strands presented under Scope and Sequence in the upper primary science curriculum.
- c) Mention four methods used in separating mixtures and give an example of a mixture that can be separated by the method mentioned.
4. a) Give one importance of luminous bodies to humans.
- b) Outline three (3) phenomena observed on earth that result from the relative position of the sun, moon, and earth.
- c) i. Mention two (2) misconceptions/unscientific cultural beliefs people have about skin diseases.
 - ii. What is the mode of transfer of chicken pox from one person to another?
 - iii. Explain the concept force and give three (3) examples.
5. a) Define the following and state one example of each.
 - i. Field force
 - ii. Contact Force
- b) A ball is thrown straight up.
 - i. At what position is its kinetic energy maximum?
 - ii. At what position is its potential energy maximum?
- c) i. State the law of conservation momentum.
 - ii. State the law of conservation of energy.