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DEPARTMENT OF TEACHER EDUCATION  
SCHOOL OF EDUCATION AND LEADERSHIP  
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END OF SEMESTER TWO EXAMINATIONS FOR LEVEL 200, 2022/2023  
B.ED. PROGRAMME

COURSE CODE: TEUP 208

COURSE TITLE: INTEGRATED SCIENCE FOR UPPER PRIMARY II

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*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. Which of the following is not a misconception about energy?

- (a) Energy is found only living objects.
- (b) Energy is directly related to matter
- (c) Pupils sometimes take energy to be mass
- (d) Pupils sometimes also take energy as force

2. The energy that a body has by a virtue of its position is .....

- (a) Chemical Energy
- (b) Kinetic energy
- (c) Magnetic Energy
- (d) Potential energy

3. Which of the following is not a renewable source of energy?

- (a) Nuclear
- (b) Solar
- (c) Water
- (d) Wind

4. The following are examples of trace fossils except .....

- (a) Bones
- (b) Burrows
- (c) Footprints
- (d) Nests

5. Which of the following is a contact force?

- (a) Electromagnetic
- (b) Electrostatic force
- (c) Frictional force
- (d) Magnetic force

6. The following are layers of the skin except .....

- (a) Dermatitis
- (b) Dermis
- (c) Epidermis
- (d) Hypodermis

7. The following are examples of non-renewable sources of energy except .....

- (a) Biomass
- (b) Dry cells
- (c) Fossil fuel
- (d) Nuclear energy

8. Which of the following is not a form of frictional force?

- (a) Dynamic
- (b) Electrostatic
- (c) Limiting
- (d) Static

9. Mechanical energy is made up of .....

- (a) Electrical energy and chemical energy
- (b) Kinetic and electrical energy
- (c) Potential and chemical energy
- (d) Potential and kinetic energy

10. The force of attraction between molecules of the same substances is called .....

- (a) Adhesion force
- (b) Cohesion force
- (c) Electromagnetic
- (d) Electrostatic force

11. Melanocytes are responsible for the production of .....

- (a) Melanin.
- (b) Epidermis
- (c) Hypodermis
- (d) Pigment

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12. Ringworm is a common skin infection that is caused by .....

- (a) Bacteria
- (b) Fungus
- (c) Protozoa
- (d) Virus

13. Eczema includes the following conditions except .....

- (a) Atopic dermatitis
- (b) Contact dermatitis
- (c) Dermatophytosis
- (d) Nummular eczema

14. Which of the following is not a symptom of an eczema .....

- (a) Cough
- (b) Cracked
- (c) Dry
- (d) Reddish

15. All the following are dwarf planets except .....

- (a) Haumea,
- (b) Makemake
- (c) Mercury
- (d) Pluto

16. Measles is an infection caused by .....

- (a) Bacteria
- (b) Fungus
- (c) Protozoa
- (d) Virus

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

- (a) Measles and chicken pox
- (b) Measles and eczema
- (c) Chicken pox and eczema
- (d) Chicken pox and ring worm

18. Which of the following is no longer classified as a planet?

- (a) Neptune
- (b) Pluto
- (c) Saturn
- (d) Uranus

19. The largest planet is .....

- (a) Earth
- (b) Mars
- (c) Jupiter
- (d) Pluto

20. The only planet that supports plant and animal life is .....

- (a) Earth
- (b) Mars
- (c) Jupiter
- (d) Pluto

21. Which of the following types of energy is stored in a battery?

- (a) Chemical
- (b) Electric
- (c) Radiant
- (d) Thermal

22. Which of the following best describes what happens when you stand to the side of a Campfire and get warmer?

- (A) Heat energy in the fire is coming towards you as radiant energy and causing the heat energy in your body to increase.
- (B) You are receiving heat energy directly from the fire.
- (C) You are receiving radiant energy from the fire -- no heat energy is involved.
- (D) You are receiving both heat and radiant energy at the same time -- they are completely separate things.

23. Which of the following processes is likely to release nuclear energy?

- (a) Atoms fusing or splitting apart.
- (b) Burning fuel
- (c) Chemical mixing
- (d) Moving turbines

24. What is the name of the energy stored by a moving object?

- (a) Elastic potential energy
- (b) Gravitational potential energy
- (c) Mechanical energy
- (d) Kinetic energy

25. Where might elastic potential energy be stored?

- (a) In a catapult stored in a cupboard
- (b) In a candle
- (c) In a stretched string in a guitar
- (d) In food

## SECTION B

[75 Marks]

Answer any three questions in this section.

## SECTION B

Answer any three questions

1. (a) i. What is a mixture? (4 mark)  
 ii. State four methods of separation of mixtures. (4marks)
- (b) i. Differentiate between Luminous and non-Luminous objects. (4 marks)  
 ii. State two examples of luminous. (4marks)
- (c). i. A force of 100N acts on a mass of 50kg. Find the acceleration of the body. (5marks)  
 ii. Explain the difference between Energy conversion and Energy conservation. (4marks)
2. (a) Briefly explain the following and state two examples of each:  
 (i) Renewable sources of energy (6marks)  
 (ii) Non-renewable sources of energy (6marks)  
 (b) What is force? (1mark)
- c) In a tabular form, classify the following as contact and field force  

Force of gravity		
Tensional	Centripetal force	Thrust
Electrostatic force	Electromagnetic	Upthrust
Magnetic force	Molecular force	Viscosity
Frictional force	Electromotive force	

(12marks)
3. (a) Define the following and state one example of each.  
 i. Field force (4 marks)  
 ii. Contact Force (4 marks)
- (b). State any two symptoms of the following skin diseases  
 i. Measles (4 marks)  
 ii. Eczema (4 marks)  
 iii. Ringworm (4 marks)
- (c) List the energy conversions that occur when riding a bicycle. (5marks)
4. (a) Explain why water wets glass but mercury does not (8 marks)  
 (b) i. What is a satellite? (3marks)  
 ii. State any four uses of artificial satellite (4marks)  
 c) i. State and explain Newton's laws of motion (10marks)

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5. (a) State the causative organism of the following: (6marks)

- i. Chicken pox
- ii. Measles
- iii. Ringworm

(b) i. What is a Milky Way galaxy? (4marks)

ii. State any three differences between natural satellites and artificial satellites. (6marks)

(c) i. Distinguish between homogeneous or heterogeneous mixtures. (6 marks)  
ii. What is a galaxy? (3 marks)