

Total Score

Name.....

School

Roll No

REPUBLIC OF SOMALILAND
MINISTRY OF EDUCATION
SOMALILAN NATIONAL EXAMINATION BOARD
GRADE EIGHT CERTIFICATE EXAMINATION

SCIENCE

2020 - 2021

TIME 2 HOURS

Plus 10 minutes for reading through the paper

INSTRUCTIONS TO CANDIDATES

This paper consists of 11 printed pages.
Count them now. Inform the invigilator if there are any pages missing.

There are **two** parts

PART 1:	30 Multiple Choice	60 Marks
PART 2:	8 Structured Questions	40 Marks

TOTAL: 100 Marks

- Answer ALL questions in Part 1 and 2.
- Extra papers and Mobile Not Allowed.

Part One: Multiple Choice Questions

(60 marks)

1. Which of the following is not a function of the skeleton for humans?
 - a. Supports the body
 - b. It protects the vital organs
 - c. It stores minerals in the body
 - d. It is dangerous to some parts

2. The female part of the flower consists of:
 - a. Ovary
 - b. Stigma
 - c. Style
 - d. All of the above

3. Which of the following is correct?
 - a. Arteries carry blood to the heart
 - b. Veins carry oxygenated blood to the heart
 - c. Arteries carry blood from lungs
 - d. Veins carry blood to the heart

4. The types of pollutants to water include
 - a. Crude oil spills at sea
 - b. Waste water added
 - c. A and B
 - d. None of the above

5. Which of the following are not chicken diseases
 - a. Cough
 - b. Diarrhea
 - c. Lous
 - d. External blood suckers

6. Which of the following are diseases that should be vaccinated?
 - a. Measles
 - b. TB
 - c. Tetanus
 - d. All of the above

7. Which one of the following is a toxic cigarette?
- Rad
 - Nicotine
 - B and T
 - None of them
8. The benefits of breast feeding for the baby include?
- Breast milk contains baby's immune cells
 - Breast milk contains supporting minerals
 - Breastfeeding contributes birth control method
 - Breast milk is bad for a baby's development
9. When the bacteria multiply into 40 minutes, how many bacteria can there be?
- 2
 - 4
 - 6
 - 8
10. Appropriate steps to prepare farm land include:
- To cut down trees and grass
 - To plant plants and grass
 - To plant weeds organs land
 - Not clearing farm land from plants and grass which have been cut
11. Which of the following is not chemical change
- A paper which is burnt
 - Melted ice
 - Magnesium burnt with oxygen
 - Calcium that react with hydrochloric acid
12. Filtering method is used when
- Mixed items are different in size
 - Solids which are not dissolved in water
 - One object is lighter than the other
 - Two liquids dissolve together
13. The smallest partical of matter is known as
- Electron
 - Proton
 - Atom
 - Neutron

14. Citric acid is found in

- a. Sour milk
- b. Sour lemon
- c. Grapes
- d. Black tea

15. The acids that is found in car battery is known as

- a. Nitric acid
- b. Hydro-chloric acid
- c. Sulfuric acid
- d. Ethanoic acid

16. $C + O_2 \longrightarrow CO_2$

The types of this reaction is

- a. Displaced reaction
- b. Direct reaction
- c. Separation reaction
- d. None of them

17. Covalent bond connects

- a. Metal and non-metal
- b. Two or more atoms of a metal
- c. Two or more non-metal atoms
- d. None of the above

18. Which of the following is a property of a base

- a. Bases convert the red litmus paper into blue
- b. Bases react with acid to form salt and water
- c. They have sour taste
- d. They have bitter taste

19. When acid reacts with base, the result is

- a. Salt and water
- b. Salt and hydrogen
- c. Water and hydrogen
- d. Carbon dioxide and water

20. The attractive force between positive ions of metal and negative ions of non-metals is known as
- a. Covalent bond
 - b. Ionic bond
 - c. Metallic bond
 - d. None of the above
21. A piece of metal is put on a burning candle which of the following is correct
- a. Heat passes through the metal by conduction
 - b. The metal contracts
 - c. Heat passes through it by radiation
 - d. Heat passed through it by convection
22. Sound travels fastest in
- a. Vacuum
 - b. Air
 - c. Solids
 - d. Liquids
23. If a bar magnet is cut into two pieces
- a. Each piece becomes weak
 - b. Both pieces lose their magnetism
 - c. One piece becomes strong which the other becomes weak
 - d. Two magnets are created
24. Potential energy and kinetic energy are collectively called
- a. Kinetic energy
 - b. Sound energy
 - c. Potential energy
 - d. Mechanical energy
25. Which of the following is an example of eye defect
- a. Eye lens
 - b. Iris of the eye
 - c. Trachoma
 - d. Retina
26. The part of the human eye that becomes smaller in bright and enlarges in dim light is called
- a. Retina
 - b. Lens of the eye
 - c. Cornea
 - d. The pupil

27. Distance travelled by an object in specified direction is known as
- Distance
 - Speed
 - Displacement
 - Velocity
28. Soles of tyres are grooved (made rough). The advantage of this is
- To reduce friction
 - To increase the life span of the tyre
 - For decoration
 - To increase friction
29. When the image of a body is formed in front of the retina, the defect is called
- Good vision
 - For sightedness
 - Normal vision
 - Short sightedness
30. The acceleration of a body is given by:
- $$\frac{\text{Initial velocity} - \text{final velocity}}{\text{Time}}$$
 - $$\frac{\text{Average velocity} - \text{final velocity}}{\text{Time}}$$
 - $$\frac{\text{Initial time} - \text{Initial velocity}}{\text{Time}}$$
 - $$\frac{\text{Final velocity} - \text{initial velocity}}{\text{Time}}$$

(40 marks)

(5 marks)

Part Two: Structured Questions

1 Name the organs of the circulatory system

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

2. The table below shows the parts of the skeleton and its organs that are shielded, match each organs and its shielded (4 marks)

	Skeleton	Organs of his shielded
	Hips	Spinal cord
	skull	Heart and lungs
	ribs	Brain and eyes
	Back bone	Bladder and in the womb

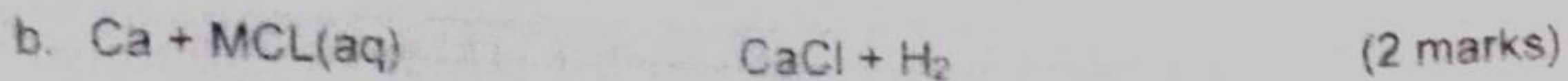
3. Name the fourth components that affect photosynthesis? (4 marks)

- a.
- b.
- c.
- d.

4. Balance these chemical equations:

a. $\text{Na} + \text{Cl}_2 \rightarrow \text{NaCl}$ (2 marks)

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5.

a. What is a chemical reaction? (3 marks)

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b. What is a chemical equation? (3 marks)

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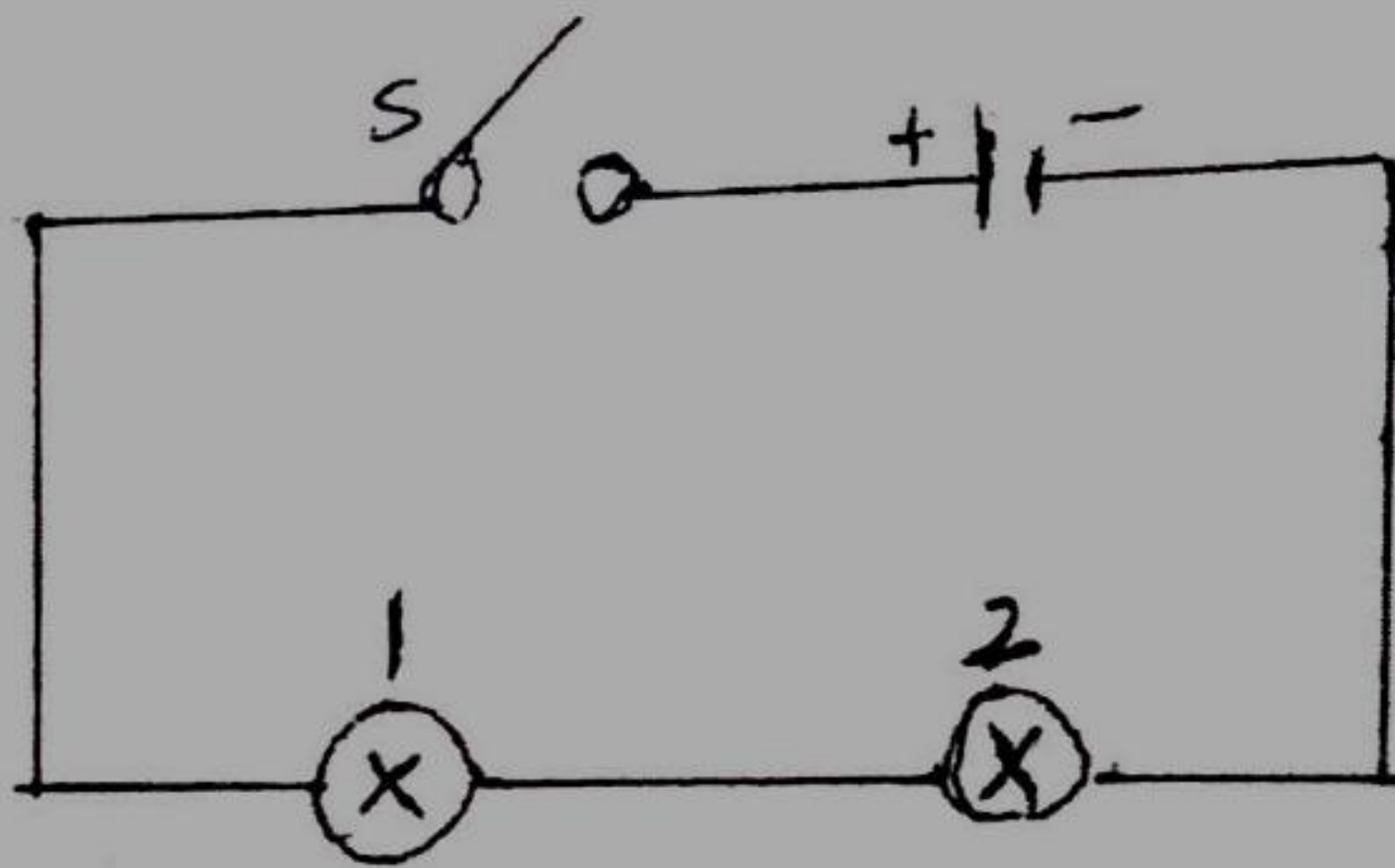
c. What is the result? (2 marks)

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6. Complete the following table by using either attraction or repulsion (4 marks)

One pole of a bar magnet	The other pole of the magnet	Attraction or repulsion
N	N	
N	S	
S	N	
S	S	

7. The figure shows a circuit containing two lamps (or bulbs)



a. Are the two lamps (bulbs) connected in series or parallel? (3 marks)

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b. If one of the lamps blows out or is removed, what will happen to the other lamps? (3 marks)

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