

**MATTER**  
**SCIENCE EXAM**  
**NINTH GRADE**

**Multiply Selection**

Choose the correct answer.

1. Is made up of indivisible particles called atoms:
  - a. Matter
  - b. Weight
  - c. Mass
2. Is the smallest portion of an element:
  - a. element
  - b. atom
  - c. molecule
3. Matter according to its origin is classified by:
  - a. organic
  - b. inorganic
  - c. a and b are correct
4. Matter according to its composition is classified:
  - a. b and c are correct
  - b. pure substances
  - c. mixtures
5. Matter according to its physical state is classified:
  - a. Liquid, gas
  - b. Solid, fluid, plasma
  - c. Texture, color
6. Are two types of mixtures:
  - a. Homogeneous
  - b. heterogeneous
  - c. a and b are correct
7. Are pure simple substances that can not be broken down into other simpler substances.
  - a. Chemical elements
  - b. Chemical equation
  - c. Chemical reaction
8. Is an example of chemical element.
  - a. H<sub>2</sub>
  - b. H<sub>2</sub>O- water
  - c. O<sub>2</sub>
9. Is the smallest particle of a simple or compound substance.
  - a. atom
  - b. electron
  - c. molecule
10. are graphic representations of chemical reactions.
  - a. Chemical equations

- b. Chemical reactions
- c. Chemical element

11. Is an example of a chemical equation.

- a.  $\text{NO}_2$
- b.  $\text{H}_2\text{O} \rightarrow \text{H}_2 + \text{O}$
- c.  $\text{H}_2\text{O}$

12. Inorganic compounds are composed:

- a. Oxides, bases
- b. Hydroxides, acids, salts
- c. A and b are correct

13. Are a type of energy resource derived from the slow decomposition of living organisms.

- a. Fossil fuel
- b. water
- c. coil

14. is a mixture of remains of marine organisms.

- a. coil
- b. oil
- c. natural gas

15. is a compound formed by two elements: hydrogen and carbon

- a. carbon
- b. amine
- c. hydrocarbon

16. Is the main source of energy on the planet.

- a. Fossil fuel
- b. oxygen
- c. Carbon

17. Are some derivatives of petroleum.

- a. Coil, oil
- b. Paraffins, mineral waxes
- c. Gas, water

18. Kerosene is a derivative of petroleum?

- a. Yes
- b. No