

Question 1: Why is evaporation of water not a chemical change?

- a) Heat is absorbed
- b) State changes
- c) Gas is formed
- d) No new substance is formed

Question 2: The principle of conservation of energy states that

- a) Energy is unlimited
- b) Energy can be created
- c) Energy changes from one form to another
- d) Energy can be destroyed

Question 3: _____ rock is formed from cooled lava

- a) Fossil rocks
- b) Igneous
- c) Sedimentary
- d) Metamorphic

Question 4: Which natural event is caused by sudden plate movements?

- a) Earthquake
- b) Rainfall
- c) Tornado
- d) Tsunami

Question 5: Which blood cells are mainly responsible for fighting infections in the body?

- a) Red blood cells
- b) White blood cells
- c) Plasma
- d) Platelets

Question 6: The fizzing sound in cold drinks is due to

- a) Hydrogen release
- b) Nitrogen release
- c) Dissolved carbon dioxide escaping
- d) Oxygen release

Question 7: The father of genetics used which method in his experiments

- a) Burning plants
- b) Cutting leaves
- c) Cross-pollination
- d) Watering plants

Question 8: The transfer of energy in an ecosystem is

- a) Partly lost as heat
- b) 100% efficient
- c) Always recycled
- d) Faster in deserts

Question 9: The functional unit of the kidney is

- a) Nephritis
- b) Neuron
- c) Nephron
- d) Tubule

Question 10: What do we call the study of earthquakes?

- a) Geography
- b) Astronomy
- c) Meteorology
- d) Seismology

Question 11: Which of these is the best conductor of electricity?

- a) Plastic
- b) Copper
- c) Rubber
- d) Wood

Question 12: Which form of energy is stored in food that our body uses?

- a) Heat energy
- b) Chemical energy
- c) Light energy
- d) Sound energy

Question 13: The process of digestion is considered a chemical change because

- a) Stomach grinds food
- b) Only the size of food changes
- c) Heat is absorbed only
- d) Food is converted into new simpler substances

Question 14: Offspring look similar to parents because of

- a) Inheritance of traits
- b) Weather
- c) Food habits
- d) Food

Question 15: What is the role of nitrogen-fixing bacteria?

- a) Decompose organic matter
- b) Absorb carbon dioxide
- c) Convert nitrogen into usable form
- d) Produce oxygen

Question 16: Which part of the brain controls balance and coordination?

- a) Cerebellum
- b) Cerebrum
- c) Hypothalamus
- d) Medulla oblongata

Question 17: The main disadvantage of solar energy is

- a) It is unsafe
- b) It causes pollution
- c) It is non-renewable
- d) It works only in sunlight

Question 18: Formation of curd from milk is caused by

- a) Oxygen
- b) Bacteria
- c) Light
- d) Heat only

Question 19: The outermost layer of the Earth is called the

- a) Biosphere
- b) Lithosphere
- c) Atmosphere
- d) Hydrosphere

Question 20: The hardest substance in the human body is

- a) Bone
- b) Cartilage
- c) Muscle
- d) Enamel

Question 21: Gregor Mendel worked with which plants to study heredity?

- a) Wheat
- b) Rose
- c) Pea
- d) Mango

Question 22: Which of the following is a renewable source of energy?

- a) Natural gas
- b) Coal
- c) Petroleum
- d) Wind

Question 23: Which vitamin is essential for blood clotting?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin D
- d) Vitamin K

Question 24: Which of the following is a biotic factor in an ecosystem?

- a) Plants
- b) Sunlight
- c) Water
- d) Soil

Question 25: A pair of genes controlling a trait is called

- a) Hormones
- b) Cells
- c) Alleles
- d) Atoms

Question 26: Which pigment gives red blood cells their color?

- a) Melanin
- b) Keratin
- c) Hemoglobin
- d) Chlorophyll

Question 27: Which of these will help in reducing energy waste?

- a) Using old appliances
- b) Keeping lights switched on
- c) Using more plastic
- d) Energy-efficient appliances

Question 28: Which source of energy is produced from decayed plants and animals buried underground?

- a) Wind energy
- b) Hydroelectric energy
- c) Solar energy
- d) Fossil fuels

Question 29: Which of the following shows both physical and chemical changes?

- a) Cutting paper
- b) Freezing water
- c) Burning of candle
- d) Melting chocolate

Question 30: DNA mainly responsible for

- a) Pumping blood
- b) Carrying genetic information
- c) Helping digestion
- d) Producing energy

Question 31: When you ride a bicycle, what kind of energy is mainly used?

- a) Sound
- b) Heat
- c) Mechanical
- d) Chemical

Question 32: Which organ helps in producing red blood cells?

- a) Bone marrow
- b) Spleen
- c) Kidney
- d) Liver

Question 33: The shape of DNA is often described as

- a) Three Dimensional
- b) Double helix
- c) Spherical
- d) Straight line

Question 34: The transparent front part of the eye is called

- a) Pupil
- b) Lens
- c) Retina
- d) Cornea

Question 35: DNA stands for

- a) Deoxyribonucleic acid
- b) Double nature acid
- c) Dynamic nucleus acid
- d) Deep nucleotide array

Question 36: Which factor is essential for photosynthesis?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Protein

Question 37: In a grassland ecosystem, grass → grasshopper → frog → snake → hawk represents a

- a) Energy cycle
- b) Food web
- c) Food chain
- d) Water cycle

Question 38: “Ring of Fire” is surrounded by

- a) Indian Ocean
- b) Pacific Ocean
- c) Atlantic Ocean
- d) Arctic Ocean

Question 39: Which one of the following is a physical change?

- a) Rusting of iron
- b) Melting of ice
- c) Burning a candle
- d) Cooking rice

Question 40: Who is called the “Father of Genetics”?

- a) Gregor Mendel
- b) Isaac Newton
- c) Albert Einstein
- d) Charles Darwin

Question 41: Cooking of food is an example of

- a) Physical change
- b) Chemical change
- c) No change
- d) Reversible change

Question 42: Earthquakes are strongest at the

- a) Epicenter
- b) Hypocenter
- c) Crust
- d) Mantle

Question 43: What role do fungi and bacteria play in ecosystems?

- a) Decomposers
- b) Consumers
- c) Producers
- d) Predators

Question 44: Which of the following metals does not rust easily?

- a) Gold
- b) Iron
- c) Aluminum
- d) Steel

Question 45: Earthquakes release energy in the form of

- a) Heat
- b) Sound
- c) Radiation
- d) Seismic waves

Question 46: The tube that carries air from the throat to the lungs is

- a) Alveoli
- b) Esophagus
- c) Trachea
- d) Bronchiole

Question 47: What is the Earth's outer core made up of?

- a) Gas
- b) Liquid iron and nickel
- c) Solid iron
- d) Rocks

Question 48: Which of the following is NOT inherited?

- a) Intelligence
- b) Skin color
- c) Hair type
- d) Language spoken

Question 49: Why is the burning of coal harmful to the environment?

- a) It produces carbon dioxide and smoke
- b) It releases only water vapor
- c) It produces salt
- d) It increases moisture

Question 50: The point underground where an earthquake starts is called

- a) Epicenter
- b) Focus
- c) Seismic center
- d) Wave point