MCQS ON SCIENCE -- SYSTEMS, ENERGY AND FORCES

- 1: Which system helps remove waste and excess substances from the body?
- A) Nervous system
- B) Circulatory system
- C) Excretory system
- D) Respiratory system

2: Which organ is responsible for filtering waste and excess substances from the blood?

- A) Liver
- B) Kidneys
- C) Heart
- D) Lungs
- 3: What is the main function of the excretory system?
- A) To absorb nutrients from food
- B) To remove waste and excess substances from the body
- C) To produce hormones
- D) To regulate body temperature
- 4: Which part of the excretory system stores urine until it is eliminated from the

body?

- A) Kidneys
- B) Liver
- C) Bladder
- D) Ureters
- 5: What happens to the waste that is filtered by the kidneys?
- A) It is stored in the liver

- B) It is eliminated from the body through urine
- C) It is absorbed back into the bloodstream
- D) It is stored in the muscles
- 6: Which planet in our solar system has the fastest orbital speed?
- A) Earth
- B) Saturn
- C) Jupiter
- D) Mercury
- 7: What is the force that keeps planets in orbit around the Sun?
- A) Gravity
- B) Friction
- C) Magnetism
- D) Electromagnetism
- 8: Which of the following statements is true about the motion of the Moon?
- A) It moves in a straight line
- B) It orbits the Earth in a circular path
- C) It moves away from the Earth
- D) It moves towards the Sun
- 9: What is the term for the path an object follows as it revolves around a larger body?
- A) Orbit
- B) Rotation
- C) Revolution
- D) Axis
- 10: Which planet takes the longest time to complete one orbit around the Sun?
- A) Neptune

B) Uranus

- C) Saturn
- D) Jupiter

11: What is the term for the relationship between two species where one species benefits and the other is harmed?

- A) Mutualism
- B) Commensalism
- C) Parasitism
- D) Predation
- 12: How do humans impact ecosystems
- A) Only positive impacts
- B) Only negative impacts
- C) Both positive and negative impacts
- D) No impacts
- 13: What is the result of overfishing in an ecosystem?
- A) Increased fish population
- B) Decreased fish population
- C) No impact on fish population
- D) Increased plant growth
- 14: What is the term for the movement of water through a plant, from the roots to the

leaves, and is then released into the air as water vapor?

- A) Respiration
- B) Photosynthesis
- C) Transpiration
- D) D) Evaporation

- 15: How do humans benefit from ecosystems?
- A) Only through food provision
- B) Only through water provision
- C) Through various ecosystem services, including air and water purification, soil

formation, and climate regulation

- D) Through no ecosystem services
- 16: What is the most common form of energy source used by humans?
- A) Solar energy
- B) Wind energy
- C) Fossil fuels
- D) Hydro energy
- 17: Which of the following is an example of energy transformation?
- A) Water flowing downhill
- B) A car moving on a road
- C) A light bulb glowing
- D) A battery charging
- 18: What is the term for the energy an object has due to its motion?
- A) Kinetic energy
- B) Potential energy
- C) Thermal energy
- D) Electrical energy
- 19: Which energy source is considered renewable?
- A) Coal
- B) Oil
- C) Natural gas

- D) Solar energy
- 20: What is the process by which plants convert sunlight into chemical energy?
- A) Respiration
- B) Photosynthesis
- C) Decomposition
- D) Fermentation
- 21: What is the most common method of electricity generation?
- A) Hydroelectric power
- B) Nuclear power
- C) Fossil fuel-based power
- D) Solar power
- 22: What is the purpose of a transformer in an electrical power system?
- A) To generate electricity
- B) To transmit electricity
- C) To transform voltage levels
- D) To distribute electricity
- 23: Which of the following is a type of electricity transmission line
- A) Distribution line
- B) Transmission line
- C) Substation
- D) Generator
- 24: What is the process of converting electrical energy into mechanical energy?
- A) Generation
- B) Transmission
- C) Transformation

- D) Motoring
- 25: Which device converts electrical energy into light and heat energy?
- A) Motor
- B) Generator
- C) Transformer
- D) Light bulb
- 26: What is the form of energy stored in a stretched rubber band?
- A) Kinetic energy
- B) Potential energy
- C) Thermal energy
- D) Electrical energy
- 27: Which energy conversion occurs in a car engine?
- A) Electrical to mechanical
- B) Mechanical to thermal
- C) Chemical to mechanical
- D) Thermal to electrical
- 28: What is the form of energy produced by a solar panel?
- A) Electrical energy
- B) Thermal energy
- C) Mechanical energy
- D) Chemical energy
- 29: Which energy conversion occurs in a light bulb?
- A) Electrical to mechanical
- B) Mechanical to thermal
- C) Electrical to light and heat

- D) Thermal to electrical
- 30: What is the form of energy stored in a battery?
- A) Kinetic energy
- B) Potential energy
- C) Electrical energy
- D) Chemical energy
- 31: What is the function of a switch in an electric circuit?
- A) To provide voltage
- B) To control the flow of current
- C) To resist current flow
- D) To store energy
- 32: Which component is used to protect an electric circuit from excessive current?
- A) Resistor
- B) Capacitor
- C) Fuse
- D) Inductor
- 33: What is the function of a resistor in an electric circuit?
- A) To increase voltage
- B) To decrease current
- C) To control current flow
- D) To store energy
- 34: Which component is used to store energy in an electric circuit?
- A) Capacitor
- B) Resistor
- C) Inductor

D) Switch

- 35: What is the function of a wire in an electric circuit?
- A) To resist current flow
- B) To provide voltage
- C) To conduct current
- D) To store energy
- 36: Which of the following is an example of a conductor?
- A) Wood
- B) Rubber
- C) Copper
- D) Glass
- 37: Which type of material has intermediate conductivity between conductors and insulators?
- A) Conductor
- B) Semiconductor
- C) Insulator
- D) Superconductor
- 38: Which of the following is an example of an insulator?
- A) Aluminum
- B) Silicon
- C) Ceramic
- D) Steel

39: Which material is used in electronic devices due to its ability to control the flow

of current?

A) Conductor

- B) Semiconductor
- C) Insulator
- D) Superconductor
- 40: Which of the following is a characteristic of conductors?
- A) High resistance
- B) Low conductivity
- C) High conductivity
- D) Intermediate conductivity