

# Physics of the Human Body

Physics · Answer Key · 12 Questions

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**1. Which organ in the human body acts as a pump to exert pressure on blood to circulate it through the vessels?**

- A) Lungs
- B) Heart**
- C) Kidneys
- D) Liver

**2. What is the primary physical force that keeps our feet on the ground and helps our bones maintain density?**

- A) Magnetism
- B) Friction
- C) Gravity**
- D) Buoyancy

**3. The human eye functions similarly to which optical device by focusing light onto the retina?**

- A) Microscope
- B) Telescope
- C) Camera**
- D) Prism

**4. What type of energy do human muscles convert from chemical energy to perform physical movement?**

- A) Kinetic energy**
- B) Nuclear energy
- C) Potential energy
- D) Thermal energy

**5. Sound waves enter the ear and cause which small, thin structure to vibrate?**

- A) Eardrum**
- B) Cochlea
- C) Pinna
- D) Ear canal

**6. Through which process does the body primarily regulate its temperature by releasing water onto the skin?**

A) Condensation

**B) Evaporation**

C) Sublimation

D) Deposition

**7. What part of the human skeleton acts as a lever system to allow for movement?**

A) Skin

**B) Bones**

C) Nerves

D) Fat

**8. The human body generates heat as a byproduct of which internal process?**

A) Respiration

**B) Metabolism**

C) Digestion

D) Circulation

**9. Which form of electromagnetic radiation is used by doctors to see inside the body to check for broken bones?**

A) Radio waves

B) Microwaves

**C) X-rays**

D) Infrared

**10. What physical property of the heart valves ensures that blood flows in only one direction?**

A) Resistance

**B) Pressure gradient**

C) Viscosity

D) Diffusion

**11. Which nutrient provides the primary chemical fuel that the body converts into energy?**

A) Water

B) Fiber

**C) Glucose**

D) Calcium

**12. How is the speed of sound affected when it travels through the denser liquid environment of the human body compared to air?**

- A) It stays the same
- B) It slows down
- C) It speeds up**
- D) It stops completely