

Name \_\_\_\_\_

## Magnets in Medicine: Healing with Attraction

### Multiple Choice Questions

1. What is the primary purpose of Magnetic Resonance Imaging (MRI) in medicine?
  - a) Generating electricity for medical equipment
  - b) Creating detailed images of the body's internal structures
  - c) Measuring blood pressure
  - d) Administering medications
  
2. How do MRI machines work to produce images of the human body?
  - a) By emitting harmful radiation
  - b) By using X-rays
  - c) By generating a strong magnetic field and using radio waves
  - d) By conducting electrical currents through the body
  
3. What is the primary goal of transcranial Magnetic Stimulation (TMS) in medical treatment?
  - a) Treating respiratory diseases
  - b) Stimulating specific regions of the brain to treat depression and neurological disorders
  - c) Delivering targeted drug therapy
  - d) Producing high-resolution images of the brain
  
4. How are magnetic nanoparticles used in medicine?
  - a) They are used to create jewelry with healing properties.
  - b) They are employed in generating electricity for medical devices.
  - c) They are coated with drugs and guided to specific areas in the body for targeted drug delivery.
  - d) They are used in the production of artificial limbs.
  
5. Which of the following is NOT a potential application of magnets in the medical field?
  - a) Creating images of internal structures
  - b) Targeted drug delivery
  - c) Generating electricity for hospitals
  - d) Treating depression with transcranial Magnetic Stimulation (TMS)

