

MRSO Practice Test Questions and Answers

1. What is the “5 Gauss Line” in an MRI facility?

- A) The area where MRI images are processed
- B) A boundary where the magnetic field strength is 5 Gauss, beyond which safety precautions are mandatory
- C) A line marking the entrance to the MRI suite
- D) The line where MRI equipment is stored

2. Specific Absorption Rate (SAR) is a measure of the:

- A) Total RF power transmitted by the coil.
- B) Rate of RF energy absorption per unit mass of tissue.
- C) Peak B1 field strength in microtesla.
- D) Change in tissue temperature per minute.

3. What is the primary function of the quench pipe or vent?

- A) To act as a port for refilling the magnet with liquid helium
- B) To provide a pressure reading of the cryostat to the operator console
- C) To safely vent helium gas outside the building during a quench
- D) To circulate cryogen gas to cool the magnet room's air conditioning system

4. What is the primary material used for passive magnetic shielding?

- A) Copper
- B) Lead
- C) Aluminum
- D) Low-carbon steel

Answers: 1-B 2-B 3-C 4-D

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