- Define half-life. Al married
- 2. How is the half-life of a radioisotope similar to a sporting tournament in which the losing team is eliminated? CE manager
- 3. The half-life of radium 226 is 1600 years. If a sample of radium 226 has an original activity of 200 Bg, what will it's activity be after 4800 years? (2" market
- 4. Sodium 24 has a half-life of IS hours. If a sample of sodium 24 has an original activity of 500 Bg, what will its activity be after 60 hours? 12 march of
- 5. After 42 days the activity of a sample of phosphorus-32 has decreased from 400 Be to 50 Bg. What is the half-life of phosphorus-32? (2) married
- 6. The half-life of radon-222 is 3.8 days. What was the original activity if it has an activity of 10 Bg after 7.6 days? (2 market)
- 7. The half-life of thorium-227 is 19 days. How many days are required for 75% of a sample GE married? to decay?
- 8. The half-life of protectinium-234 is 6.75 hours. What percentage of a cample will remain after 27 hours? GE market
- 9. A rock once contained I.O mg of uranium-238, but now contains only 0.25 mg. Given that the half-life for uranium-238 is 4.5 x 10° (4.5 billion) years, how old is the rock? CO manager
- 10. The half-life of tritium (hydrogen-3) is 12.3 years, if 48.0 mg of tritium is released from a nuclear power plant during the course of a michae, what make of the cample will remain after 49.2 years? 12 market

Total market NO

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Julia Schneider

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