

CHAPTER 7

Half-Life and Radioisotope Dating

BLM 2-48

Answer the questions in the space provided.

1. Examine the graph showing the decay curve for carbon-14. The graph shows the amount of radioactive carbon-14 that would be in a sample of organic material for 30 000 years after the organism died.



- (a) Define half-life.
- (b) How long is one half-life for carbon-14? _____
- (c) What percentage of carbon-14 remains (i) after one half-life? _____
 (ii) after two half-lives? _____ (iii) after three half-lives? _____
- (d) Use the graph to estimate the percentage of carbon-14 remaining after
 (i) 5000 years _____ (ii) 10 000 years _____
 (iii) 15 000 years _____
- (e) Use the graph to estimate the number of years that have passed since the organism died if the percentage of parent isotope that remains is
 (i) 40% _____ (ii) 20% _____ (iii) 5% _____
- (f) Explain why carbon-14 half-life measurements are not effective in dating an organism that has been dead for more than 50 000 years.

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Yi-Tong Ma



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