



RADIOACTIVE QUIZ



1. What makes an atom radioactive?

- a) full electron shells b) unstable nucleus c) being negatively or positively charged

2. Which form of ionising radiation is a fast moving electron?

- a) alpha b) beta c) gamma

3. Which disease can be caused by ionising radiation damaging the DNA in cells?

- a) tuberculosis b) cystic fibrosis c) cancer

4. Which unit is used to measure radioactivity?

- a) bequerels b) seconds c) watts

5. By how much does an atom's atomic number change after an alpha decay?

- a) -2 b) +2 c) -4

6. By how much does an atom's atomic number change after a beta decay?

- a) -2 b) +1 c) -1

7. Which of these is a use of gamma radiation?

- a) measuring paper thickness b) smoke alarms c) medical tracers

8. Which is the most ionising form of radioactive decay?

- a) alpha b) beta c) gamma

9. Which form of ionising radiation is the most penetrating?

- a) alpha b) beta c) gamma

10. If a radioactive sample has a half life of 30 seconds, and an activity of 60Bq, what will its activity be after 90s?

- a) 30Bq b) 7.5Bq c) 20B

ANSWERS
(1) B (2) B (3) C (4) A (5) A (6) B (7) C (8) A (9) C (10) B

